



# 2023 – 2024 College **Catalog**



3600 Workman Mill Road  
Whittier, California 90601-1699  
(562) 692-0921  
www.riohondo.edu

# 2023-2024 Catalog

*July 1, 2023 - June 30, 2024*

*Serving the Communities of:*

Pico Rivera  
Santa Fe Springs  
Whittier  
El Monte  
South El Monte  
and portions of  
Norwalk  
La Mirada  
Downey  
La Puente  
Industry

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Marilyn Flores, Ph.D.  
Superintendent/President

## Volume LVII

### Accreditation

Western Association of Schools and Colleges Board of Governors, California Community Colleges Río Hondo College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (10 Commercial Blvd., Ste. 204 Novato, CA 94949 (415) 506-0234 Telephone • (415) 506-0238 FAX), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

*An additional list of Accreditations and Certifications can be found in Chapter 1.*

### Statement of Policy

The policy of this district is that, unless specifically exempted by statute or regulation, every course, course section, or class, reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the colleges and who meets such prerequisites as may be established pursuant to section 55003 of division 6 of title 5 of the California Code of Regulations.

The College catalog represents official policies of the Río Hondo Community College District Board of Trustees.

By virtue of Statute, authority is vested in the Río Hondo Community College District Board of Trustees to add, amend, or repeal any of its regulations, rules, and procedures in whole or in part at such time as it may elect.

The Río Hondo College staff has worked to assure the accuracy of all information in the catalog. Students are advised, however, that such information **may be subject to change without notice.**

Since the catalog is prepared in advance of the academic year, changes in some programs and rules might occur. An addendum to the catalog is published in the Fall. The catalog and accompanying addendum are the final authority in regard to classes and programs offered. The catalog and addenda are also posted on the web site at: [www.riohondo.edu/catalog](http://www.riohondo.edu/catalog). Students are advised to consult a counselor whenever questions or problems pertaining to academic programs arise.

**This document is available in alternate formats upon request. Please contact Disabled Students Program and Services at (562) 908-3420.**

# Welcome



## **PRESIDENT'S MESSAGE**

Welcome and Bienvenidos to Río Hondo College where we take pride in our academic excellence and commitment to advancing social justice and equity. As stated in our mission statement, "Río Hondo College is an educational and community partner committed to advancing social justice and equity as an anti-racist institution that collectively invests in all students' academic and career pathways that lead to attainment of degree, certificate, transfer, and lifelong-learning goals."

Río Hondo College offers numerous career and academic pathways and support services for all students. We take pride in our ability to ensure that we meet your needs and will work together with you to identify your area of interest and ensure your success in a welcoming and supportive learning environment. Start Rio, Go Anywhere!

Whether you are a student on campus or online, Río Hondo College provides a rigorous and robust course of study for those planning to transfer to four-year universities, seeking career advancement, and exploring new skills.

We offer 67 local associate degrees, and 31 associate degrees for transfer that guarantee transfer to California State Universities. We are one of the few community colleges in California that offers a Bachelor of Science degree, a Pathway to Law School program, and nationally recognized academies in policing and firefighting. We are also known for our programs in nursing and alternative automotive technology. Additionally, we offer 145 credit-bearing certificates to assist students who are seeking employment or upward mobility in the labor market, along with 31 noncredit certificates.

We offer a rich array of services and resources for students who struggle with food insecurity, housing insecure, and other potential barriers to achieving their goals – another element of our commitment to ensuring success for all members of our community. Río Hondo College faculty, staff and administrators invite you to explore all that your community college, Río Hondo College, has to offer.

Marilyn Flores, Ph.D.  
Superintendent/President

# Administrators

<b>ADMINISTRATION</b>	
Superintendent/President	Marilyn Flores, Ph.D.
Vice President, Academic Affairs	Don Miller, Ph.D.
Vice President, Finance and Business	Stephen Kibui, Ed.D.
Vice President, Human Resources	Tina Kuperman, J.D.
Vice President, Student Services	Earic Dixon-Peters, Ed.D.
<b>DIVISION DEANS</b>	
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Behavioral and Social Science	Adam Wetsman, J.D., Ph.D.
Business	Gita Runkle
Career and Technical Education/Instructional Operations	Mike Slavich
Communications and Languages	Alice Mecom, Ed.D.
Counseling	Lisa Chavez
Educational Centers	Yolanda Emerson
Health Science and Nursing, Interim Dean	Katherin Brandt
Institutional Research and Planning	Caroline Durdella, Ph.D.
Kinesiology, Dance, and Athletics/Athletic Director	Nedra Brown
Library	Mike Garabedian
Mathematics, Sciences, and Engineering	Vann Priest, Ph.D.
Public Safety	Mark Yokoyama
Student Affairs	Alicia Kruienza
Student Equity and Achievement	Cecilia Rocha
Student Support Services	Heba Griffiths
<b>ASSISTANT DEANS</b>	
Adult Education	Maria Erika Leon, Ed.D.
Distance Education	Airek Mathews
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Admissions and Records/Registrar, Director	Leigh Ann Unger
Basic Needs, Director	Jessica Perea, D.P.A.
Career Pathways Specialist, Project Manager	Lisa Lewenberg
Child Development Center, Director	Cindy O'Neill
Contract Management and Vending Services, Director	Felix G. Sarao
Deputy Sector Navigator, Grant Manager	Bruce Noble
Disabled Students Programs and Services, Director	Consuelo Gutierrez, Ed.D.
Dual Enrollment, Acting Program Supervisor	Norma Garcia
Educational Justice Programs, Project Manager	Linda Olmos

EOPS/CARE/NextUp, Director	Cyndi Bendezu-Palamino
Facilities Services, Director	Martin Morozosky
Facilities Services, Assistant Director	Jason Dwyer
Facilities Services, Manager	Andrew Delgado
Fire Academy, Director	Kurt Norwood
Financial Aid and Scholarships, Director	Donald Gordon
Foundation and College Initiatives, Acting Director	Shaina Phillips
Government and Community Relations, Director	Russell Castañeda-Calleros, Ed.D.
Grant Development and Management, Director	Michaela Brehm
Human Resources, Assistant Director	Antoinette Traster
Information/Technology Services, Director	Vacant
Marketing and Communications, Director	Ruthie Retana
Next Up/Guardian Scholars, Grant Manager	Deborah Lopez
Operations and Maintenance Manager	George Lopez
PASS Program (TRIO), Project Manager	Brenda Beza
Police Academy, Director	Walter Allen, III
Strong Workforce, Interim Grant Manager	Maria Andrade-Hernandez
Student Life and Leadership, Acting Manager	Rose Moncada
Student Resources Holistic Services, Project Manager	Dianka Lohay
Student Success and Partnerships, Director	Tam Contreras
Supporting Effective Educator Development (SEED), Interim Project Manager	Maria Lea Martinez
Title V Enlace, Grant Manager	Molly Morin, Ph.D.
TRIO Pre-College Programs, Grant Manager	Gabriela Pérez



# Division/Department Listing

## Division of Arts and Cultural Programs

(562) 908-3471

- Cultural Events Hotline: (562) 908-3492
- Cultural Programs
- Distance Education
- Performing Arts
  - Music
  - Theater
- Visual Arts
  - Animation
  - Art History
  - Ceramics
  - Graphic Design
  - Photography
  - Studio Art

## Division of Behavioral and Social Sciences

(562) 463-7469

- Anthropology
- Chicano Studies
- Child Development/Education
- Economics
- Ethnic, Gender, and Sexuality Studies
- History
- Human Services
- Humanities
- Philosophy
- Political Science
- Psychology/Drug Studies
- Sociology

## Division of Business

(562) 463-7359

- Accounting
- Business/Management/Marketing
- Computer Information Technology
- International Business
- Logistics

## Division of Career and Technical Education

(562) 908-3460

- Apprenticeship: (562) 908-3448
- Architecture/Civil/Engineering Technology
- Automation
- Automotive Technology
- Automotive Technology Baccalaureate Degree Program
- Geographic Information Systems
- Electronics (Renewable/Green Energy)
- Heavy Equipment Technology
- Honda PACT Program
- Tesla START Program

- Welding/Fabrication

## Division of Communications and Languages

(562) 908-3429

- English & Literature
- English as a New Language (ENLA)
- ESL/Language Lab
- Film, Television, and Media
- Languages (ASL, Chinese, Japanese, French, Spanish)
- Mass Communications/Journalism/Radio/TV
  - El Paisano, elpaisanoonline.com, La Cima
- Reading & Study Skills
- Speech/Forensics

## Division of Counseling

(562) 908-3410

- Center for Career & Re-entry Services: (562) 908-3407
- Counseling Center: (562) 908-3410
- Pathway to Law School: (562) 463-7008
- Puente: (562) 463-3207
- Student Success and Support Program — Credit/Noncredit
- Transfer Center: (562) 463-4619
- TRIO SSS, Transfer & Career/Re-entry: (562) 463-3216

## Division of Health Science and Nursing

(562) 908-3421

- Acute CNA
- Associate Degree Nursing
- Home Health Aide
- Orthopedic Technology
- Nutrition and Dietetics
- Vocational Nursing
- Nurse Assistant Pre-Certification Training

## Division of Kinesiology, Dance and Athletics

(562) 908-3409

- Athletics
- Dance
- Fitness Center (562) 463-3461
- Kinesiology

## Division of Library

(562) 908-3417

- Archives
- Circulation
- District Lab
- English Writing Center
- Learning Assistance Center (LAC)
- Library (562) 908-3417
- Production

- Reading Lab
- Reference

**Division of Mathematics, Sciences, and Engineering**

(562) 908-3444 or 908-3472

- Astronomy, Geography, and Geology
- Biological Sciences
- Chemistry
- Environmental Sciences
- Mathematics
- Math Science Center
- MESA/TRIO SSS STEM
- Physics and Engineering

**Division of Public Safety**

(562) 463-7756

- Administration of Justice
- Advanced Officer Training
- Corrections
- Forensics
- Police Academy (562) 941-4082
- Emergency Medical Technician
- Fire Academy
- Fire Technology
- Homeland Security Training Center
- Wildland Fire

**Division of Student Affairs**

(562) 908-3498

- Admissions and Records: (562) 908-3415/463-7639
- International Students Program
- Financial Aid, Scholarships and Veterans Services: (562) 908-3411
- Student Conduct: (562) 908-3498
- Student Health and Psychological Services: (562) 908-3438
- Student Life & Leadership: (562) 908-3427
- Veterans Service Center (562) 463-3370

**Division of Student Equity and Achievement**

(562) 463-7226

- Black Scholars Program: (562) 463-6650
- Dreamers' Resource Center: (562) 463-6745
- Outreach and Dual Enrollment: (562) 463-4693
- Rise Scholars Program: (562) 463-7327
- Student Equity: (562) 463-7066
- Student Success Center: (562) 463-6650
- UndocuScholars Program: (562) 463-6745

**Division of Student Support Services**

(562) 463-3209

- CalWORKs: (562) 463-7311
- Disabled Students Programs & Services: (562) 908-3420
- EOPS/CARE: (562) 908-3423
- Foster Care and Independent Living: (562) 908-3435
- NextUp/Guardian Scholars: (562) 908-3435
- Student Grievances: (562) 463-3209

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# Instructional Calendar 2023-2024

## Summer 2023

Ten-Week Session (10-weeks): Monday, June 5 – Friday, August 11  
First Session (5-weeks): Monday, June 5 – Friday, July 7  
Session (6-weeks): Monday, June 20 – Friday, July 28  
Late Start: Day and Evening (8-weeks): Tuesday, June 20 – Friday, August 11  
Second Session: Day Classes (5-weeks): Monday, July 10 – Friday, August 11

## Fall 2023

Semester Dates (16-weeks): Saturday, August 19 - Saturday, December 9  
Flex Day.: Friday, August 18 (Classes begin Saturday, August 19)  
**8-Week Modules**  
(Module A/FH): Saturday, August 19 – Friday, October 13  
(Module B/SH): Saturday, October 14 – Saturday, December 9  
Finals Week: Monday, December 4 – Saturday, December 9

## Winter 2024

Winter Term (4-weeks): Tuesday, January 2 – Thursday, January 25

## Spring 2024

Semester Dates (16-weeks): Saturday, January 27 - Thursday, May 23  
Flex Day: Friday, January 26 (Classes begin Saturday, January 27)  
Spring Break: Saturday, March 23 - Friday, March 29  
**8-Week Modules**  
(Module A/FH): Saturday, January 27 – Friday, March 22  
(Module B/SH): Saturday, March 30 – Thursday, May 23  
Finals Week: Saturday, May 18 – Thursday, May 23  
Commencement: Friday, May 24

# 1 General Information

## About Río Hondo College

### History

The Río Hondo Community College District was established by election in October 1960, but first classes were not held until 1963-1964. Since the district's boundaries at that time were identical to those of the Whittier Union High School District, administration of the district was by the high school district Board of Trustees. Creation of the El Rancho Unified School District in 1962 required that Río Hondo College establish its own Board of Trustees, and an election for that purpose was held in April 1962.

The new Board of Trustees appointed Dr. Phil Putnam as the founding Superintendent-President in February 1963. In May 1963, the Board chose Río Hondo as the name for the college. The name, long associated with the area surrounding the Río Hondo River, means "deep river."

College classes were offered for the first time in the late afternoons and evenings in September 1963 at Sierra and El Rancho High Schools. Following selection of the present campus site, a \$12 million bond issue to build the college was approved by 80.1 percent of the district voters in October 1963. During 1964 and 1965, Río Hondo College conducted classes for a limited enrollment at the former Little Lake School in Santa Fe Springs.

The present campus opened in the fall of 1966 with an enrollment of 3,363 day and 2,682 evening students. Measure A, a \$245 million bond passed by voters in 2004, now provides new buildings and facilities upgrades campus-wide as well as new off-site educational centers in South Whittier and El Monte. Today, Río Hondo enrolls approximately 20,000 students per semester.

Río Hondo College is an open-access California community college that contains nine cities, in whole or part, four distinct unincorporated communities, and a portion of one other unincorporated community of Los Angeles County within our district boundaries. The cities include El Monte, South El Monte, Pico Rivera, Santa Fe Springs, and Whittier. The District also encompasses portions of Norwalk, Downey, La Mirada, and the City of Industry. The unincorporated communities within our District include Los Nietos, East Whittier, South Whittier, West Whittier, and a portion of Avocado Heights.

School districts within the college boundaries are the Whittier Union High School District, El Rancho Unified School District, and the El Monte Union High School District. Students come to Río Hondo seeking a variety of educational experiences. Río Hondo's educational program includes courses for transfer to four-year colleges and universities, general education courses for greater understanding of individual and community life, vocational training in certain areas, and courses for improving academic performance necessary for studying at a higher level.

The Río Hondo College Foundation was established in 1992. The Foundation assists the college in meeting the needs of its students. The Foundation's focus is to secure financial and community resources to support Río Hondo College students and student scholarships. The Foundation also supports innovative educational projects, teaching, and training support.

### Mission Statement

Río Hondo College is an educational and community partner committed to advancing social justice and equity as an anticacist institution that collectively invests in all students' academic and career pathways that lead to attainment of degree, certificate, transfer, and lifelong learning goals.

### Vision Statement

Río Hondo College aspires to be an evolving community focused institution that embraces diversity, equity, and inclusion as a means to achieve personal, professional, and educational goals in a caring and rigorous environment.

### Values Statement

*Río Hondo College is guided by its Core Values:*

**Quality Teaching and Learning:** a dynamic, student centered learning environment that embraces equity-minded principles,

**Student Access and Success:** a welcoming and inclusive environment that provides our community with the knowledge, wisdom, and skills that facilitate upward social and economic mobility,

**Diversity, Equity and Inclusion:** a commitment to advancing educational justice, equity, and opportunity,

**Integrity and Fiscal Responsibility:** a College engaged in ethical practices and responsible use of resources for the optimum benefit of its students, community, and staff.

### Goals Statement

With the rapid pace of change and the need to respond in a reasonable, timely, and organized fashion - and keeping the focus on our students - Río Hondo College recognizes the following goals as important to our collective success:

- to provide quality instruction to enhance the teaching/learning process
- to provide quality student support programs
- to provide quality student services, utilizing a student-centered process

- to meet the changing technological needs required to support the educational process and to enhance student access and success
- to maintain a safe and pleasant environment for students, staff, and community
- to support participatory governance processes through effective communication among and involvement of students, faculty, staff, trustees, and community
- to provide leadership in the academic, cultural, and economic life of the community
- to support the personal and professional growth of trustees, faculty, and staff
- to develop and utilize fiscal resources in an efficient and effective manner.

## **Institutional Code of Ethics (BP 3050)**

I. The employees of Río Hondo Community College District are committed to providing a high quality learning environment to help our students successfully achieve their educational goals and objectives. Accordingly, employees have an interest and commitment to ethical behavior. Ethical persons are those who abide by principles and exemplify virtues as understood within a given moral framework. Many believe that virtue is intrinsically rewarding. At the very least, that one be perceived as ethical is instrumental in establishing credibility and trust.

II. To support Río Hondo's commitment to ethical behavior, college employees adhere to standards of ethical and professional behavior related to their duties, and have responsibilities to the institution and to individuals they serve. Although one cannot "legislate morality" in the sense of mandating virtuous intentions, we can, and do, establish general expectations of conduct.

III. There are many sources of ethical inspiration and guidance. All employees of Río Hondo College are subject to official College policies and procedures; applicable regulatory agency requirements; local, state, and federal laws; and professional standards (when applicable). This includes policies such as the Río Hondo College Policy on Sexual Harassment (BP 3430), its Policy on Nondiscrimination (BP 3410), and its Policy on Academic Freedom (BP 4030).

IV. In addition, the Board of Trustees is subject to its own Code of Ethics (BP 2715), and most of our employees are members of professional organizations with their own established codes of ethics, such as the CTA, CSEA, and ACCCA. Employees are encouraged to consult their own organizations, when applicable, for further guidance. As constituents of Río Hondo College, students are likewise encouraged to maintain high Standards of Conduct (BP 5500).

V. As a further demonstration of commitment to high ethical standards, employees of Río Hondo College aspire to be guided by the following values statements. These are guidelines and aspirations to be used for educational and not disciplinary purposes, with our own conscience as the first and most salient means of evaluation:

- The College values open communication, honesty, and truthfulness, and aspires to an "open door" philosophy.
- The College values open inquiry and honors academic freedom.

- The College strives to protect human dignity and individual freedom.
- The College values clear roles and responsibilities, teamwork, and cooperation (as outlined in AB1725), and therefore aspires to develop a climate of trust and mutual support.
- The College is committed to providing excellent educational opportunities to the community, and the instructional faculty seeks to evaluate students by honest appraisal of student performance against faculty standards.

## **Institutional Philosophy**

Recognizing the individual worth and potential of every human being, Río Hondo College offers an open access, comprehensive educational program to residents of the college district.

The college is dedicated to excellence in instruction and student services to develop the intellectual and personal competence of each individual.

At Río Hondo College, students will have an opportunity to develop ethical values, learn the rights and responsibilities of citizenship, develop career skills, and understand the scientific, artistic, and social achievements of various cultures.

## **Institutional Affiliation**

Río Hondo College is a member of the Western Association of Schools and Colleges, the American Association of Community Colleges, and the California Association of Community Colleges. The college is also a member of the San Gabriel/Foothill Association of Community Colleges (SanFACC).

## **Accreditations & Certifications**

Río Hondo College is accredited by the Western Association of Schools and Colleges and is authorized by the California Community College Board of Governors to offer courses which parallel the lower-division courses of four-year institutions and qualify the student for junior classification at the university level. College transfer courses are accepted at full value at most colleges and universities throughout the United States.

- Police Academy – California Commission on Peace Officers Standards and Training (POST) (Certified)
- Fire Academy – California State Fire Marshal; Accredited Local Processing for "State Fire Training Certifications"- California State Fire Marshals office (Accredited)
- Regional Homeland Security Training Center - Certified by California State Fire Marshal and California Emergency Management Agency (Cal EMA) and certified as a UASI homeland security regional training center in Los Angeles County.
- Emergency Medical Technician (EMT) – Los Angeles County Health Services EMT/Paramedic Program Approval Section (Accredited)
- Wildland Fire Program – U.S. Forest Service (Certified)
- First Aid and CPR – American Heart Association & American Red Cross (Certified)
- Expanded Scope Practice for EMTs – LA County Department of Health Services (Certified)
- Drug Studies Program – Accredited by the Addiction Counselor Certification Board of California/California Association for Drug/Alcohol Educators (ACCBC/CAADE) and the California Association of DUI Treatment Programs (CADTP).

- Nursing Program – Approved by the Board of Registered Nursing, State of California and the Board of Vocational Nursing and Psychiatric Technicians, State of California.
- CNA Programs – Approved through the Department of Public Health Services State of California.
- Automotive Programs: National Automotive Technicians Education Foundation (NATEF) (Certified); California Automotive Business Coalition Automotive Technician Training Standards (ATTS) (Certified); California Bureau of Automotive Repair (BAR) Smog Check Technician Training Institution (Certified).

## Facilities

### Art Gallery

The Río Hondo College Art Gallery is located inside the Art Building and is open to students and the community during the academic year. The gallery provides an intimate setting for exhibits showing both student and professional artists representing a variety of artistic disciplines. Used also as a teaching gallery, many of the exhibits are displayed and created by students enrolled in Art courses. The gallery is open to the public and exhibits are advertised in the College's Cultural Events brochure available from the Division of Arts & Cultural Programs and online at: <http://www.riohondo.edu/arts>. Call (562) 908-3471 for more information.

### Black Box Theater

The Black Box Theater has been temporarily moved to Lot 3, Bungalow 6 while the original location is undergoing construction to improve the facility. With seating for approximately 40 guests, the Black Box provides a more intimate setting for student and visiting performers. The performances are open to the public and are advertised in the College's Cultural Events brochure from the Division of Arts & Cultural Programs. Call (562) 908-3471 for more information.

### Bookstore

The Río Hondo College Bookstore is located on the first floor of the Administration Building. The bookstore carries new, used, digital and rental textbooks required for each class as well as school supplies, RHC clothing, gifts and technology products. The textbook rental program can save students 65% or more on select textbooks. Physical non-rental textbooks can be sold back to the bookstore for up to 50% of the purchase price (exclusions apply). Our online website [www.riohondoshop.com](http://www.riohondoshop.com) offers students the convenience of ordering online and choosing free in-store pickup; orders can be shipped at an extra cost. As an authorized Apple reseller, the bookstore offers a selection of Apple products in the store and online. The bookstore works with various departments to make some financial aid and scholarship funds available to use at the bookstore. As a campus partner, ninety percent of the commissions received from the bookstore go to the Auxiliary Service Fund for student activities. For more store information visit us online at [www.riohondoshop.com](http://www.riohondoshop.com).

### Child Development Center/Pre-School Laboratory

The Child Development Center/Pre-School Laboratory, accredited by the National Association for Education of Young Children (NAEYC),

provides quality pre-school services to the children of Río Hondo students, staff, and community. Children must be between the ages of 2 and 5 years old and are not required to be toilet trained. The Center is supported by state funds and parent fees. Families on the waiting list are ranked by eligibility factors for subsidized care provided by the California Department of Education (CDE) Early Education Division and the Department of Social Services (CDSS) Child Care and Development Division. Enrollment is based on the lower rank first. Río Hondo student parents are the highest priority as they can receive wrap-around services and up to 90% free tuition for their preschool age children through the Federal Child Care Access Means Parents In School (CCAMPIS) grant. Eligibility for state subsidized funding is determined by a combination of family size and income. Some families may pay fees based on a sliding scale. Hours of operation are 7:30 A.M. to 5:00 P.M., Monday through Friday. Holidays and breaks are observed in accordance with the RHC academic calendar. For more information, please call (562) 908-3494 or visit the Río Hondo website (click on [www.riohondo.edu/cdc](http://www.riohondo.edu/cdc)). Río Hondo College students from the Child Development/Education Department, the Behavioral and Social Science Division and Nursing utilize the Pre-School Laboratory to observe the development and behavior of pre-school children and to apply the knowledge that they gained in their courses working directly with children.

### El Monte Educational Center (EMEC)

The El Monte Educational Center (EMEC) is one of Río Hondo College's off-campus educational centers. It is located at 3017 Tyler Avenue, El Monte, CA 91731. There are classrooms and a computer resource lab. For more information about classes and services at EMEC, please call (626) 443-8932. Fax: (626) 443-8997.

### Fitness & Wellness Center

Río Hondo College's state-of-the-art Fitness & Wellness Center is located in the Kinesiology Department (room 150). Access is available by enrolling in KINA 130, a one-unit Kinesiology Activity Class. Additional information is listed in the Class Schedule and on the Fitness & Wellness Center web page.

### Observatory

Río Hondo College is one of only 10 California Community Colleges to possess an observatory. The Gordon D. Crowell Astrophysical Observatory has been serving the students of the college and residents of the community for almost 50 years. The Observatory houses a 16-inch reflecting telescope that is the largest telescope available to the public in the Los Angeles area. We are open to the public, year round, no fee, from 8:00 p.m. to 10:00 p.m. PDT and 7:00 p.m. to 9:00 p.m. PST on selected clear Friday evenings. Visitors are asked to park in Lot C and walk up the observatory road to the Observatory. Please wear comfortable walking shoes, dress warmly, and bring a flashlight. Visitors are also advised that we do not have rest room facilities at the observatory. Call (562) 908-3444 for more information, or visit [www.riohondo.edu/mathematicsand-sciences/astronomy/observatory-nights](http://www.riohondo.edu/mathematicsand-sciences/astronomy/observatory-nights).

### Parking: Students/Visitors

Parking facilities are provided for students and visitors at nine locations on campus as designated in this College Catalog. Students are required to display a Río Hondo College parking permit on all vehicles parking on campus. Parking permits should be obtained at the time of registration and thereafter. Motorcycle parking is

permitted only in specially designated areas in Lots A, B, C, E, and Level 1 and 4.

Visitors on campus may obtain temporary parking permits at the Parking Information Booth located off College Drive and Parking Lot 2 of the lower level parking stalls or at one of the day parking permit dispensers available in these locations:

- Parking Lot A, center of lot
- Parking Lot A, near bridge
- Parking Lot 6, near stairs
- Parking Lot C, southeast corner of Lot C
- Parking Lot E, near entrance to KDA's Fitness Center

One (1) day parking permit fee is \$3.00. The dispenser accepts one dollar bills, credit cards, coins (including dollar coins). Dispenser does not give change for bills or coins. A five (5) minute parking stall is located alongside the dispenser for temporary parking while you purchase your permit.

A getAPERMIT semester parking permit may be ordered from any computer, including a Kiosk computer located on the 1st floor of the Student Services Building hallway. Parking permit orders may be mailed or picked up on campus from the Cashier's Office. Mailed permits are subject to a service and convenience fee. On-campus permit orders and pickups may be subject to a service or convenience fee, and only available for pick up on a first-come, first-served basis, while permits last. Refer to Admissions &

Records Fees & Refund web page: <https://www.riohondo.edu/admissions/fee-refunds/>

Persons operating vehicles on campus are expected to abide by all California vehicle codes as well as posted regulations. Citations will be issued by campus security officers for violations of such codes or for failure to abide by college parking or vehicular regulations. Everyone is required to pay all fines in connection with such violations. Unpaid fines will be referred to the DMV, and a hold will be placed on your vehicle registration.

Persons using the parking facilities at the college do so at their own risk. The college assumes no liability for the use of the parking facilities.

## Río Café

The Río Café, located on the first floor of the Student Union, is the place to grab a snack or meal on the run. The 300 seat dining room is ample enough to enjoy a delicious breakfast, lunch, or dinner with friends. The café offers a mix of healthy dining options, a mouth-watering grill featuring an exhibition grill of hot sandwiches, International Cuisine, Panini Grill, and Crepe station. Several beverage choices to choose from and a variety of sweet and savory fresh-baked pastries. Enjoy your favorite Starbucks Lattes, cappuccino® Blended Beverages, Coffees and Teas at our Starbucks Coffee Bar. The café accepts: Cash, Credit, and Apple Pay. Hours for the Río Café are: Monday through Thursday 7:00 am to 8:00 pm; Friday 7:00 am to 2:00 pm; Saturday 7:00 am to 1:00 pm. Catering is available at [www.riocafe@riohondo.edu](mailto:www.riocafe@riohondo.edu).

## Río Hondo Educational Center at Pico Rivera

The Río Hondo Educational Center at Pico Rivera is one of Río Hondo College's off-campus educational centers. It is located at 9426 Marjorie Street, Pico Rivera, CA 90660. There are classrooms, a computer resource lab, and a study hall. Regular college credit courses are offered at the Educational Center at Pico Rivera, including basic skills, general education courses for graduation and transfer to a university. Continuing Education also offers noncredit courses. For more information about classes and services at the Pico Rivera Educational Center, please call (562) 222-1482.

## Santa Fe Springs Training Center

The Río Hondo College Fire Technology program is located at the Santa Fe Springs Regional Training Center at 11400 Greenstone Ave., Santa Fe Springs. The Training Center houses the equipment and facilities for the College's Fire Academy, Homeland Security Training Center, Emergency Medical Technician (EMT) program, Biddle (Fire) Physical Abilities Testing, and Advanced Fire Marshal Training Programs. Some Fire Technology classes are also held on the main campus at the new Administration of Justice Building. The Wildland Fire Technology program and the Wildland Fire Academy are located at the AJ building on the main campus. Please see Schedule of Classes for more information. Phone: (562) 941-4082 extensions 21,22, or 23

## South Whittier Educational Center (SWEC)

The South Whittier Educational Center (SWEC) is located at 14307 East Telegraph Road, Whittier, CA 90604. This site serves as an instructional site for Administration of Justice and Fire Technology career programs. There are classrooms and a Public Safety lab. For more information about classes and services at SWEC, please call (562) 463-7748.

## State Smog Center

Río Hondo College's State Smog Center is a state-contracted test facility that provides certain Smog Check services for motorists. Working with Automotive Technology departments at the community colleges, the Consumer Assistance Referee Centers provide motorists the opportunity to receive independent smog checks on their vehicles. Visit the web site [www.smogcheck.ca.gov](http://www.smogcheck.ca.gov) for the eligibility conditions necessary to utilize a referee station. Depending on the State's schedule of operation, the Center is open Monday through Friday from 8:00 a.m. to 5:00 p.m. by appointment only. Closed on State-determined holidays. Call (800) 622-7733 for hours of operation and an appointment.

## Wray Theater

The Wray Theater is currently under construction to improve the facility. The college will be using other indoor and outdoor venues to showcase a variety of student and professional performances in the areas of theatre, dance, music, film, and guest lectures. The performances are open to the public and are advertised in the College's Cultural Events brochure available from the Division of Arts & Cultural Programs. For more information, call (562) 908-3471 or visit our web site at: <http://www.riohondo.edu/arts>.



# 2 College Policies & Procedures

**Current Río Hondo College Board Policies (BP) and Administrative Procedures (AP) can be found on the web site: [www.riohondo.edu/board/policies.htm](http://www.riohondo.edu/board/policies.htm)**

## Academic Freedom

### Philosophy

The maintenance of freedom of speech, publication, religion, and assembly (each of which is a component of intellectual freedom) is the breath of life in a democratic society. The need is greatest in fields and institutions of higher learning, where the use of reason and the cultivation of the highest forms of human expression are the basic methods for maintaining those freedoms. Society has come to rely upon colleges and universities as a principal means of acquiring new knowledge and new techniques, of conveying the fruits of past and present learning to the community, and of transmitting these results to generations to come. Without freedom to explore, to criticize existing institutions, to exchange ideas, and to advocate solutions to human problems, faculty members, staff and students cannot perform their work and cannot maintain their self-respect. Society suffers correspondingly. The liberty that is needed requires a freedom of thought and expression within colleges and universities, freedom to carry the results of honest inquiry to the outside, and a freedom to influence human affairs in the same manner as other informed persons do. Nor is the value of freedom lessened because error at times arises from its exercise. Learning, intellectual development, and social and scientific progress takes place on a trial-and-error basis, and even the unsound cause or hypothesis may call forth the truth that displaces it. (Board Policy 4030).

### Access to Student Records

All currently enrolled or former students have the right of access to any records relating to them and maintained by the College. Students may inspect and review records during regular business hours in the Office of Admissions and Records. Requests for access to records will be granted no later than five working days following date of request. Qualified personnel will be present to interpret records for students.

College personnel may also permit access to student's records to any person for whom the student has executed written consent specifying the records to be released and identifying the party to whom the records may be released. College personnel will notify the recipient of such records that the transmission of information to third parties is prohibited. (Administrative Procedure 5040)

### Student Records

Privacy Act - All student records at Río Hondo College are kept in accordance with the provisions of the Family Educational Rights and Privacy Act of 1974. Students may request access to those campus records that personally identify the student; the student may challenge the accuracy of the record or the appropriateness of its retention in the campus records. Student consent is needed for the release of records covered by the Act to outside parties (e.g.,

prospective employers) except for those agencies entitled to access under the provisions of the Act (e.g., campus officials, other schools, federal educational and auditing officers and requests in connection with the application of receipt of financial aid). Any currently enrolled or former student of the Río Hondo Community College District has a right of access to all student records relating to them maintained by the district except under exclusions contained in Board Policy 5035. (Board Policy 5040)

These provisions apply to records received and used after November 1, 1974. A student may request a report summarizing the number of records he/she has requested or given consent to be released. Complaints as to procedure or improper release of record information may be filed with the Office of Education, HEW FERPA, DHEW, 330 Independence Avenue, S.W., Washington, D.C. 20210.

### Children on Campus

Except when children are enrolled in the Child Development Center, other instructional programs in the District, and/or attending public events under the supervision of a parent or guardian, bringing children on campus while attending classes is not permitted. Parents and guardians must be aware that the ultimate responsibility for the safety of the children in their care rests with them and no liability can be accepted by the District nor any of its agents or staff for the consequences of children being on campus.

### Computer Usage

Each computer user is responsible for the use of computing resources in an effective, efficient, and lawful manner. Computing resources and equipment are college property, and the college retains the right to monitor systems and limit access. Users of computing resources must abide by the rules/ policies established by the department responsible for the supervision of the equipment. Each user must understand and acknowledge that his/her freedom to access and display information is limited to authorized academic and administrative uses. No person may use computer resources for any illegal act, including the possession or use of programs, files, or instructions for violating system security or violation of copyright law. Computer resources may not be used to intimidate or create an atmosphere of harassment based upon any protected class/category (gender, race, religion, ethnic origin, creed, sexual orientation, or other categories as applicable). (Administrative Procedure 3720)

### Student Complaints/Grievance Procedures

The District provides a prompt and equitable means of resolving student grievances and complaints. A grievance is an alleged wrongful act by a Río Hondo College staff or faculty member which has an adverse effect upon a student's academic or personal status right or privileges as a student at Río Hondo College. Students are

protected against capricious, arbitrary, unreasonable, unlawful, false, malicious or professionally inappropriate evaluations or behavior by a faculty member, a staff member, an administrator or an official of the College or another student. Student complaints may be classified as grievances and fall into one of two categories: Academic, or Non- Academic. Students are encouraged to follow the Río Hondo College Complaint and Grievance process. Issues that are not resolved at the campus level may be presented to the State Chancellor's Office using their complaint process. (Administrative Procedure 5530)

This procedure does not apply to any matters for which a specified method of complaint resolution is provided by law or by District policy, such as: Student disciplinary actions, which are covered under separate Board policies and Administrative Procedures (BP 5500, AP 5500); Police citations (i.e. "tickets"); complaints about citations must be directed to the County Courthouse in the same way as any traffic violation; or Complaints of discrimination, harassment, or retaliation, including grade grievances based on this type of allegation. These types of complaints are covered under separate Administrative Procedures (AP 3435) and can be filed with the Office of Human Resources, Room A113 or (562) 908-3405.

For more information regarding student complaints and grievance procedures, please contact the Office of Student Support Services located in SS104 or visit: <https://www.riohondo.edu/student-support-services/>

## Directory Information

This is to serve as public notice that the following information is regarded by Río Hondo Community College District as Directory Information, and may be released for distribution unless a stop action is initiated by a student on the Río Hondo College Directory Information Denial of Release form available in the Admissions and Records Office. A new form must be completed each year. Directory information includes: a student's name, whether or not he/she is currently enrolled, participation in officially recognized activities and sports, weight and height of members of athletic teams, degrees and awards received. (Board Policy 5040)

A request for directory information will be denied to any parties, not otherwise entitled to the information by law, if the college determines that such release is not in the best interest of the student. Further information may be obtained from the Admissions & Records Office. (Board Policy and Administrative Procedure 5040)

## Hazing

The California Legislature moved hazing from the educational codes and amended the Penal Code to include hazing in order to close legal loopholes and to deter students. Section 245.6 of the California Penal Code, which went into effect on January 1, 2007, reads: It shall be unlawful to engage in hazing. "Hazing" means any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury. Hazing can be defined as any action or activity which does not contribute to the positive development of a person; which inflicts or intends to cause physical or mental harm or anxieties; which may demean, degrade or disgrace any person regardless of location, intent or consent of participants. Hazing can also be defined as any action or situation, which intentionally endangers a student seeking admission into or affiliation with any student organization. The term "hazing" does not include customary athletic events or school-sanctioned events. A violation of this section that does not result in serious bodily injury is a misdemeanor, punishable by a fine of not less than one hundred dollars (\$100), nor more than five thousand dollars (\$5,000), or imprisonment in the county jail for not more than one year, or both. (Board Policy 5500)

## Non-Discrimination Policy

Río Hondo Community College District complies with all federal and state rules and regulations and does not discriminate on the basis of national origin, religion, age, sex, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, military and veteran status, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics in any program or activity. Inquiries regarding non-discrimination may be directed to Vice President of HR, A113, (562) 908-3405.

Río Hondo Community College District recognizes its obligation to provide program accessibility for all persons with disabilities in a manner that does not discriminate in the delivery of those services. The College makes reasonable accommodations for students, employees and members of the community who may be participating in campus activities. (Administrative Procedure 3435)

Inquiries regarding federal laws and regulations concerning nondiscrimination in education or the District's compliance with those provisions may also be directed to:

Office of Civil Rights  
United States Department of Education  
50 Beale Street, Ste. 7200  
San Francisco, CA 94105  
(415) 486-5555

or

Department of Fair Employment & Housing  
1900 Mariposa Mall Suite 130  
Fresno, CA 93721

## Norma contra la Discriminación

El Distrito del Colegio de Río Hondo cumple con todas las reglas y reglamentos federales y estatales y no discrimina a base de origen nacional, religión, edad, sexo, género, identidad de género, expresión de género, orientación sexual, raza o etnicidad, color, condición médica, información genética, ascendencia, orientación sexual, estado civil, discapacidad física o mental, embarazo o por ser militar y veterano de las fuerzas armadas o porque él o ella se percibe tener una o varias de las características precedentes o basado en la asociación con una persona o el grupo con una o varias de estas características reales o percibidas. Esto se mantiene verdadero para todos los estudiantes que están interesados en participar en programas educativos incluyendo programas de carrera y educación técnica y/o actividades extraescolares. (AP 3435)

Para más información sobre esta norma, pueden ser dirigidas al Vice Presidente de Recursos Humanos ubicado en el salón A113, o llamando al (562) 908-3405.

El Distrito del Colegio de Río Hondo reconoce su obligación de proveer programas con accesibilidad para todas las personas con discapacidades en una manera que no discriminar en la entrega de aquellos servicios. El Colegio hace modificaciones razonables para estudiantes, empleados, y miembros de la comunidad quienes en actividades del colegio. (AP3435)

Cualquier pregunta sobre las leyes y los reglamentos federales contra la discriminación en la educación o el cumplimiento del Distrito con aquellas provisiones también pueden ser dirigidas a:

La Oficina de Derechos Civiles  
Departamento de Educación de los EEUU



50 Beale Street, Ste. 7200  
San Francisco, CA 94105 (415) 486-5555

o

El Departamento de Empleo Justo Y Vivienda  
1900 Mariposa Mall, Suite 130  
Fresno, CA 93721

## Registered Sex Offender Information

Offenders are required to register with the Pico Rivera Sheriff's Department prior to applying to Río Hondo College.

Once registered, the offender is required to meet with the Dean of Students Affairs with appropriate documentation from the Sheriff's Department.

For further information, call the Pico Rivera Sheriff's Department at (562) 222-5533 or the Dean of Student Affairs at (562) 908-3498.

Information concerning registered sex offenders may be obtained from the Whittier Police Department, 13200 Penn St., Whittier, CA 90602 or by calling (562) 567-9200. Sex offenders are required to register with the police in the jurisdiction in which they reside.

## Sexual Harassment

Sexual Harassment is offensive, unwelcome sexual attention. Sexual harassment is a form of sex discrimination which violates Title VII of the Civil Rights Act of 1964 as amended, Title IX of the Education Amendments of 1972, California statutes, Río Hondo Community College District Board policy BP 3430.

**Definition** – Sexual harassment consists of unwelcome sexual advances, requests for sexual favors, and other conduct of a sexual nature when:

1. Submission to the conduct is made a term or condition of an individual's employment, academic status, or progress;
2. Submission to, or rejection of, the conduct by the individual is used as a basis of employment of academic decisions effecting the individual;
3. The conduct has the purpose or effect of having a negative impact on the individual's work or academic performance, or of creating an intimidating, hostile or offensive work or educational environment; or
4. Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the community college.

This definition encompasses two kinds of sexual harassment.

1. *Quid pro quo* sexual harassment occurs when a person in a position of authority makes educational or employment benefits conditional upon an individual's willingness to engage in or tolerate unwanted sexual conduct.
2. Hostile environment sexual harassment occurs when unwelcome conduct based on sex is sufficiently severe or pervasive so as to alter the conditions of an individual's learning or work environment, unreasonably interfere with an individual's academic or work performance, or create an intimidating, hostile, or abusive learning or work environment. The victim must subjectively perceive the environment as hostile, and the harassment must be such that a reasonable person of the same gender would perceive the environment as hostile.

Sexual harassment can consist of virtually any form or combination of verbal, physical, visual or environmental conduct. It need not be

explicit, nor even specifically directed at the victim. Sexually harassing conduct can occur between people of the same or different genders. The standard for determining whether conduct constitutes sexual harassment is whether a reasonable person of the same gender as the victim would perceive the conduct as harassment based on sex.

If you believe that you are a victim of sexual harassment, contact the District Title IX Compliance Officer in room A113, or (562) 908-3405.

## El hostigamiento Sexual

El hostigamiento sexual es acoso sexual, ofensivo y mal recibido.

El hostigamiento sexual es una forma de discriminación sexual, la cual viola el Título VII del Acto de los Derechos Civiles de 1964, como se ha enmendado, el Título IX de los Enmendamientos de Educación de 1972, estatutos del Estado de California, y política de la Mesa Directiva del Distrito del Colegio de Río Hondo BP 3430.

**Definición** – El hostigamiento sexual puede ser acoso sexual mal recibido, solicitudes de favores sexuales, y otro comportamiento implícitamente sexual con tal que:

1. Sometimiento al comportamiento se presenta como requisito o condición del empleo del individuo, de la categoría o estado académico del individuo o de adelantamiento del individuo;
2. Sometimiento al comportamiento, o rechazo del comportamiento, del hostigador se presenta como criterio de empleo o de decisiones académicas en cuanto al individuo;
3. El comportamiento tiene el intento de resultar en impacto negativo en el trabajo del individuo o en los estudios académicos del individuo, o tiene el intento de crear un ambiente de intimidación y hostilidad en el empleo o en los estudios; o
4. Sometimiento al comportamiento, o rechazo del comportamiento, del hostigador se usa como criterio de cualquier decisión en cuanto al individuo y los beneficios o servicios, honor del colegio, programas, o actividades que se presentan en o por el colegio.

Esta definición incluye dos clases de hostigamiento sexual.

1. El hostigamiento sexual *Quid pro quo* ocurre cuando una persona con puesto de autoridad presenta beneficios educativos o de empleo como dependientes del sometimiento del individuo a participar en o tolerar comportamiento sexual mal recibido.
2. El hostigamiento sexual de Ambiente hosti ocurre cuando el comportamiento mal recibido, implícitamente o explícitamente sexual, es bastante severo o intruso para que se cambien las condiciones del ambiente de empleo, o de estudios, del individuo, o para que se impida excesivamente el trabajo del individuo o los estudios del individuo, o para que se cre un ambiente, de empleo o educativo, de intimidación, hostilidad y abuso. El individuo como víctima tiene que percibir personalmente el ambiente como hostil, y el hostigamiento tiene que ser de tal manera que una persona razonable del mismo sexo percibiría el comportamiento como hostigamiento sexual. El hostigamiento sexual incluye cualquier combinación de comportamiento verbal, físico, o visual, o de control a través del ambiente de empleo o educativo. El hostigamiento sexual no tiene que ser explícito, ni tiene que ser específicamente dirigido al víctima. El hostigamiento sexual puede ocurrir entre personas del mismo sexo o de diferentes sexos. El criterio para determinar si el comportamiento es hostigamiento sexual es si una persona razonable del mismo sexo percibiría el comportamiento como hostigamiento sexual.

Si usted cree que usted ha sido víctima de hostigamiento sexual, llame a, Oficial de Título IX del Distrito, en la oficina A113, o desde un teléfono fuera del colegio, llame al número (562) 908-3405.

## Sexual Misconduct Information and Title IX Compliance

### OTHER MISCONDUCT OFFENSES

(Will fall under TITLE IX when gender-based)

- Threatening or causing physical harm, extreme verbal abuse, or other conduct which threatens or endangers the health or safety of any person;
- Discrimination, defined as actions that deprive other members of the community of educational or employment access, benefits or opportunities on the basis of gender;
- Intimidation, defined as implied threats or acts that cause an unreasonable fear of harm in another;
- Hazing, defined as acts likely to cause physical or psychological harm or social ostracism to any person within the college community, when related to the admission, initiation, pledging, joining, or any other group-affiliation activity (as defined further in the Standards of Student Conduct (Board Policy and Administrative Procedure 5500));
- Bullying, defined as repeated and/ or severe aggressive behavior likely to intimidate or intentionally hurt, control or diminish another person, physically or mentally (that is not speech or conduct otherwise protected by the 1st Amendment).
- Violence between those in an intimate relationship to each other;
- Stalking, defined as repetitive and/ or menacing pursuit, following, harassment and/or interference with the peace and/ or safety of a member of the community; or the safety of any of the immediate family of members of the community.

### PRIVACY AND REPORTING:

The District Title IX Compliance Officer is responsible for the purposes of initiating notice and/or investigation of sexual misconduct. The District Title IX Officer may assign deputy investigators, who are members of the investigative team, to investigate allegations of genderbased discrimination and/or sexual misconduct. The deputy investigators will use discretion on how they act in response to notice of gender-based discrimination. Understanding that different people on campus have different reporting responsibilities and varied abilities to maintain confidentiality, the District Title IX Officer will assign deputy investigators depending on the situation and the parties involved.

To Report Gender-Based Discrimination, sexual harassment, non-consensual sexual contact, nonconsensual sexual intercourse, or sexual exploitation, please contact:

Tina Kuperman, J.D.  
Vice President, Human Resources  
[tkuperman@riohondo.edu](mailto:tkuperman@riohondo.edu)

### CONFIDENTIAL REPORTING:

If you want the details of the incident be kept confidential, you should speak with on-campus professional staff in the Student Health and Psychological Services Office, campus confidential advocate in the office of Student Life, or off-campus rape crisis resources who can maintain confidentiality. To connect with our local rape crisis center for free confidential services, email: [help@elawc.org](mailto:help@elawc.org).

Reporting to those who can maintain the privacy of what you share—You can seek advice from certain individuals who are not required to tell anyone else your private, personally identifiable

information unless there is cause for fear for your safety, or the safety of others. These are individuals who the college has not specifically designated as “responsible employees” for purposes of putting the institution on notice and for whom mandatory reporting is required, other than in the stated limited circumstances. If you are unsure of someone’s duties and ability to maintain your privacy, ask them before you talk to them.

### NON-CONFIDENTIAL REPORTING OPTIONS:

You are encouraged to speak to officials of the institution to make formal reports of incidents (deans, vice presidents, or other administrators with supervisory responsibilities, campus security, and human resources). The College considers these people to be “responsible employees.” Notice to them is official notice to the institution. You have the right and can expect to have incidents of sexual misconduct to be taken seriously by the institution when formally reported, and to have those incidents investigated and properly resolved through administrative procedures. Formal reporting means that only people who need to know will be informed of the report, and information will be shared only as necessary with investigators, witnesses, and the accused individual.

**Federal Statistical Reporting Obligations:** Certain campus officials have a duty to report sexual misconduct for federal statistical reporting purposes (Clery Act). All personally identifiable information is kept confidential, but statistical information must be passed along to campus law enforcement regarding the type of incident and its general location (on or off-campus, in the surrounding area, but no addresses are given) for publication in the annual Campus Security Report. This report helps to provide the community with a clear picture of the extent and nature of campus crime, to ensure greater community safety. Mandated federal reporters include: student/conduct affairs, campus law enforcement, coaches, athletic directors, student activities staff, human resources staff, advisors to student organizations and any other official with significant responsibility for student and campus activities. The information to be shared includes the date, the location of the incident (using Clery location categories) and the Clery crime category. This reporting protects the identity of the victim and may be done anonymously.

**Federal Timely Warning Reporting Obligations:** Victims of sexual misconduct should also be aware that college administrators must issue immediate timely warnings for incidents reported to them that are confirmed to pose a substantial threat of bodily harm or danger to members of the campus community. The College will make every effort to ensure that a victim’s name and other identifying information is not disclosed, while still providing enough information for community members to make safety decisions in light of the danger. The reporters for timely warning purposes are exactly the same as detailed above.

## Standards of Student Conduct

The Río Hondo College campus is an academic community dedicated to teaching and learning. In order that teaching and learning may take place in an atmosphere of respect for one another and for each other’s ideas and beliefs, Río Hondo College has guaranteed certain fundamental rights to its students and faculty.

Río Hondo College students are part of a community in which ideas will be explored in a mature spirit of understanding and mutual respect. Only in this mature spirit can the college meet its obligations to those it serves.

All students are required to abide by the Standards of Conduct (Board Policy and Administrative Procedure 5500) and failure to do so may result in disciplinary action such as a verbal or written reprimand, probation, suspension and/or expulsion. The following

conduct shall constitute good cause for discipline, including but not limited to the removal, suspension or expulsion of a student.

- A. Fighting, causing, attempting to cause, or threatening to cause physical injury to another person.
- B. Possession, sale or otherwise furnishing any firearm, knife, explosive other dangerous object, including but not limited to any facsimile firearm, knife or explosive. (Administrative Procedure 3530)
- C. Unlawful possession, use, sale, offer to sell, furnishing, or being under the influence of any controlled substance listed in California Health and Safety Code Section 11053 et seq., an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.
- D. Drinking, possessing, or being under the influence of alcoholic beverages on campus or at any college sponsored event.
- E. Committing or attempting to commit robbery or extortion.
- F. Causing or attempting to cause damage to District property or to private property on campus.
- G. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.
- H. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or posting of a District.
- I. Committing sexual harassment as defined by law or by District policies and procedures.
- J. Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, sex, religion, age, national origin, disability, sexual orientation or any other status protected by law.
- K. Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyber bullying.
- L. Hazing, as defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by the college, which is likely to cause serious bodily danger, or personal degradation, or disgrace, resulting in physical or mental harm.
- M. Willful misconduct that results in injury or death to a student or to District personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
- N. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
- O. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- P. Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
- Q. Unauthorized entry upon or use of District facilities.
- R. Lewd, indecent or obscene conduct on District-owned or controlled property, or at District sponsored or supervised functions.
- S. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District.
- T. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- U. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose of any

contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure.

- V. Knowingly accessing and without permission altering, damaging, deleting, destroying, or otherwise using any data, computer system or computer network in order to either (a) devise or execute any scheme or artifice to defraud, deceive or extort, or (b) wrongfully control or obtain money, property or data.
- W. Knowingly accessing and without permission taking, copying or making use of any data from a computer, computer system, or computer network, or taking or copying any supporting documentation, whether existing or residing internal or external to a computer, computer system or computer network.
- X. Knowingly and without permission using or causing the use of computer services.
- Y. Knowingly accessing and without permission adding, altering, damaging, deleting or destroying any data, computer software, or computer programs which reside or exist internal or external to a computer, computer system or computer network.
- Z. Knowingly and without permission disrupting or causing the disruption of computer services or denying or causing the denial of computer services to an authorized user of a computer system or computer network.
- AA. Knowingly and without permission providing or assisting in providing a means of accessing a computer, computer system or computer network in violation of this section.
- AB. Knowingly and without permission accessing or causing to be accessed any computer, computer system, or computer network.
- AC. Knowingly introducing any computer contaminant, commonly called viruses or worms, into any computer, computer system, or computer network.
- AD. Sexual assault on any District personnel, District vendor, District visitor or student, upon off-campus grounds or facilities maintained by the District, or upon grounds or facility maintained by affiliated student organizations.
- AE. The obstruction or disruption, on or off-campus, of the District's educational or administrative process or any other District function.
- AF. The violation of any previous order issued by the District president that is not inconsistent with any of the other provisions of this policy. This order may be given by its publication in the student newspaper or by notice on an official bulletin board designated for this purpose.
- AG. Attempting to perform any previously identified act that constitutes a cause for disciplinary action.
- AH. Violation of District policies or regulations including those concerning the formation and registration of student organizations, the use of college facilities, or the time, place and manner of public expression.
- AI. Failure to comply with directions of District officials acting in the performance of their duties.
- AJ. Soliciting or assisting another to do any act which would subject a student to expulsion, suspension, probation, or other discipline pursuant to this policy.
- AK. Any other cause not previously listed which is identified as a good cause by the College or the Hearing Panel.
- AL. Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assault, such as teasing or name-calling; special isolation or manipulation; and cyber bullying.

Students who engage in any of the above are subject to the Student Conduct Procedures outlined in AP 5520.

## Mental Health Clearance

A student who is removed from campus as a result of erratic, dangerous and/or threatening behavior described in the Standards of Student Conduct (AP 5500); and/ or determination by a public safety officer that the student poses a threat to himself/herself or the general public may be required, before the student is readmitted to campus, to provide documentation from a licensed mental health professional\* stating that the student will no longer engage in the behavior which gave rise to the student's removal from campus and that the student's continued presence on campus is not a threat to himself/ herself or others before the student is readmitted to campus.

The mental health professional must be licensed by the State of California and credentialed to render a professional opinion on matters of this nature. The student is responsible for any expenses related to obtaining this mental health clearance.

\*The documentation for re-admittance shall be provided to the Dean of Student Affairs by a non-Río Hondo College District California licensed mental health professional.

## Río Hondo College's Drug Free Environment and Drug Prevention Program

The Río Hondo Community College District is committed to providing its employees and students with a drug-free workplace

and campus environment. It emphasizes prevention and intervention through education.

The unlawful manufacture, distribution, dispensing, possession or use of alcohol or any controlled substance is prohibited on District property, during District sponsored field trips, activities or workshops, and in any facility or vehicle operated by the District.

Violation of this prohibition will result in appropriate action up to and including termination of employment, expulsion, and referral for prosecution, or, as permitted by law, may require satisfactory program participation in an alcohol or drug abuse assistance or rehabilitation program.

### If you want help . . .

Río Hondo College has some resources to assist you in breaking out of drug and alcohol abuse.

- Student Health and Psychological Services, Rm SS230, (562) 908-3438

This information is provided to all students per requirements of the Drug Free School and Communities Act Amendments of 1989. (P.L. 101-226). Board Policy and Administrative Procedure 3550.



# 3 Admission, Registration & Educational Costs

## Admissions: Becoming a Río Hondo Student

Students who are high school graduates, or individuals 18 years of age or over who show evidence that they can benefit from instruction, may apply and will be admitted to Río Hondo College. All classes are open to those who meet the necessary prerequisites. No person shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity sponsored by Río Hondo College. See Non-Discrimination Policy in Chapter 2 and Administrative Procedure 3410.

## Who May Apply

You may be eligible for admission to Río Hondo College if you are:

- A high school graduate or GED recipient, or holds a recognized equivalency.
- Not a high school graduate but over 18 years of age
- A current high school student who is recommended by the school principal or designee for advanced academic or vocational classes, has the approval of the student's parent(s), and meets the college's special admissions criteria. (High school students may apply, but are LIMITED to 11 UNITS of nonremedial coursework per session.)
- A current K-8 student who is recommended by the school principal via a letter recommendation listing the course/s they are requesting to register for college-level courses which include advanced academic or vocational classes, has the approval of the student's parent(s), and meets the college's special admissions criteria. (K-8 students may apply, but are LIMITED to one college-level/non-remedial course per session.)

## Student Classification

Students are classified according to the following classifications for the purpose of registration:

**New Student:** A student who has never enrolled in a credit course at any college, including Río Hondo, or has only enrolled as a K-12 Special Admit Student.

**Returning Student:** A returning student is a student who did not register the previous semester but has registered in the past. Students who are returning after an absence of two or more semesters (not including summer) must submit a new application for admission online.

**Continuing Student:** A continuing student is a student who attended the previous semester. To be classified as a continuing student with registration priority privileges, a student must maintain continuous enrollment (enrolled in at least one course each semester, not including summer).

**Special Admit Student:** An enrichment student is a student who is currently enrolled in grades K-12 or is homeschooled.

### • Permission

A Dual Enrollment Petition must be submitted to the college. The petition must be signed by an approved designee by the school or district; the parent(s)/guardian of the student; and the student. A school or district must submit a designee letter to the Río Hondo College Admissions Office that lists the names of the individuals who are authorized to sign the petition, and must be signed by the Principal.

### • Parameters

Students in K-12 may enroll in classes for college credit. Permission to enroll must be obtained in advance from their school and a parent or guardian.

- High School Students: Are limited to 11 units of non-remedial college-level coursework each term.
- K-8: Are limited to one course of non-remedial college-level coursework each term.

Interested K-12 students may obtain information at <https://www.riohondo.edu/get-started/high-school-student/>. Additional information may be obtained by calling or visiting the Admissions and Records Office.

## Residency Classification for Tuition Purposes

California residency classification is determined for each student, except students seeking to enroll in noncredit courses only, at the time applications for admission and whenever a student has not been in attendance for more than one primary semester (Fall/Spring). This classification is for tuition purposes. If there are one or more indicators that a student has not established California as their state of residence, or if further documentation is needed to make this determination, a student will pay nonresident fees until approved for reclassification.

If asked, a student must provide proof of California residency (or in some cases, parent residency) for the past 12-24 consecutive months. If the student is unable to document proof of California residency, he/she may still enroll but must pay nonresident fees. To establish residency, a student must be able to prove eligibility, through physical presence and intent to make California their state of residency for one (1) year and one (1) day prior to the first day of the term. Federal law precludes some visa types from establishing residency. Selected exemptions from nonresident fees are provided in law: such as certificated public school employees, agricultural workers, military personnel and their dependents. If you feel that you might qualify for an exemption or have questions about residency, please contact the Admissions and Records Office.

**Nonresident Students** – Legal Requirements-Education Code Section 76140 requires that tuition be charged to students who are not residents of the State of California and who attend public community colleges within the state.

The nonresident/international student fee of \$332.00 per unit (subject to change) plus a per unit enrollment fee is charged each semester/ summer session. Tuition charges must be paid at the time of registration.

The Admissions and Records Office should be consulted concerning the determination of residence.

## **AB540 Students**

On October 12, 2001, Governor Davis signed into law Assembly Bill 540 which added a section to the California Educational Code, section 68130.5. Section 68130.5 created an exemption from payment of nonresident tuition for certain nonresident students who have attended high school in California and received a high school diploma or its equivalent.

1. The laws do not grant California residency.
2. Students exempt from paying nonresident tuition pursuant to section 68130.5 do not become residents and may not be eligible for state-funded programs which require residency.
3. Students who meet the exemption requirements and who are unlawful immigrants are not eligible for any federal financial aid programs. Many private sources have created scholarships specific to students not eligible for traditional financial aid programs.
4. Students exempted from paying nonresident tuition pursuant to section 68130.5 are not eligible for the Governor's Merit Scholar Programs because these scholarships are only available for California residents.
5. Students must meet all requirements in section 68130.5
  - (a) (1) – (4) to be eligible for the exemption.
    - a. The student must have graduated from a California high school which he/she attended for three or more years. There are no provisions for partial attendance (e.g. two years and 7 months). The law does not require consecutive attendance nor require that the student attend the last three years in California (in the case of four-year high schools).
    - b. Such attendance could be at multiple California high schools.
    - c. The law does not distinguish between public and private high schools. There is no time limit on how far in the past the student might have attended a California high school.
    - d. The student must have graduated from a California high school or attained the equivalent thereof (e.g., a GED or a high school proficiency exam).
    - e. Except for nonimmigrant aliens, any nonresident student who meets the first two requirements shall be exempted from nonresident tuition even if he or she is a US citizen or lawful immigrant.
    - f. If the student has filed an application with the INS to legalize status, the student may already be eligible for resident fee status if the student has resided in California for more than one year and one day since the time of INS application. (See Title 5 Section 54045.)
6. Students who are nonimmigrant aliens (the most common being the F series student visas and B series visitor visas) are not eligible for this exemption. (A full description of nonimmigrant alien classifications may be found in paragraph 15 of subsection (a) of Section 1101 of Title 8 of the U.S. Code.) People who entered the country as nonimmigrant aliens but subsequently have gone out of status are not eligible for this exemption until they apply to INS to change their status to

something other than nonimmigrant.

The following Assembly Bills allow undocumented students to qualify for in-state tuition at California Community College and the California State University campuses:

Assembly Bill 540 (AB 540), passed in 2001, grants students meeting certain criteria an exemption from paying nonresident tuition at California Community Colleges.

Assembly Bill 2000 (AB 2000) passed in 2014. This is an expansion of AB540. It increases the scope of student eligibility for students who graduated early from a California High School with the equivalent of three or more years of credits. If a student graduates early, they must have attended CA elementary or secondary schools for a cumulative total of 3 or more years. It allows students meeting the criteria below to pay in-state tuition, the same as resident students.

Senate Bill 68 (SB 68) passed in 2017. This public postsecondary education exemption from nonresident tuition was approved by the governor and filed with the Secretary of State on October 5, 2017. This legislation amended Education Code, section 68130.5, changing the criteria for students eligible for a nonresident tuition exemption, as previously defined in Assembly Bill 540 (2001). Senate Bill 68 expands the requirements of AB 540/AB 2000 to include attendance at California Community Colleges and attainment of an associate's degree.

The California Dream Act (Assembly Bills 130 and 131) were signed into law in 2011. Together these bills compose the California Dream Act and give AB 540/AB 2000 students the right to apply for state financial aid, including Cal Grant A & B Entitlement awards, Cal Grant C awards, institutional grants and community college fee waivers.

## **International Students**

Students from outside the United States are welcome to pursue higher education at Río Hondo College. The college values the presence of students from diverse cultures on the college campus. Río Hondo College is a Student & Exchange Visitor Information System (SEVIS) approved institution to admit F-1 students. The International Student Program admits new and transfer students every semester who meet the requirements. All F-1 visa students must be accepted by the International Student Specialist before registering.

After being accepted to the college, all students must take an assessment test to determine level of English, Math and Reading. Each student is expected to register and complete 12 units in both the Spring and Fall semester with an overall grade point average of 2.0.

International students pay out of state fees which are subject to change without prior notice. Financial Aid is not available; students are expected to be financially independent. It is mandatory that all international students provide proof of health insurance coverage, by an approved insurance company, while attending Río Hondo College.

A Counselor is available to help students with a variety of issues; educational planning, choosing a major, graduation requirements, transfer requirements to 4-year colleges and Universities, tutoring and communication with a professor.

For information regarding the International Students Program, please visit the website at [www.riohondo.edu/admissions/international-students/](http://www.riohondo.edu/admissions/international-students/) or call (562) 463-7643.

## **Admissions Requirements for Overseas Students**

- International Student Application
- Application processing fee of \$40.00 (nonrefundable)
- Copy of Passport
- English Proficiency must be met by one of the following methods
  - English is the students primary language
  - TOEFL 45iBT
  - IELTS 5
  - iTep 3
- Bank Certification (original bank statement or a letter from a bank, on bank letterhead, signed by a bank official, showing a minimum \$20,000 USD available to the student)
- 18 years of age by the time the semester begins

### Admissions Requirements for Transfer Students

- International Student Application
- Application processing fee of \$40.00 (nonrefundable)
- Copy of Passport, Student Visa, I-94 and I-20 form
- English Proficiency must be met by one of the following methods:
  - College Level English Completed (official college transcripts must be submitted)
  - TOEFL 45iBT
  - IELTS 5
  - iTep 3
  - Completion of appropriate level of English at an approved Language School (see list of institutions and minimum level required [www.riohondo.edu/international-students](http://www.riohondo.edu/international-students))
- Bank Certification (original bank statement or a letter from a bank, on bank letterhead, signed by a bank official, showing a minimum \$20,000 USD available to the student)
- 18 years of age by the time the semester begins

### Open Enrollment Policy

The policy of this district is that, unless specifically exempted by statute or regulation, every course, course selection, or class, reported for state aid, whenever offered or maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to regulations contained in Title 5.

### Unit Limitations

Students are limited to 18 units per session (15 units for summer and 7 units for winter) unless they receive approval from a counselor for additional units. Students must meet with a counselor and complete a Unit Overload form. High School students are limited to 11 UNITS of non-remedial college-level coursework. K-8 students are limited to one non-remedial college-level course.

### Adding/Dropping Classes

**Adding Classes:** Students may add classes (including a change of section of the same course) during or after the assigned registration time, prior to the semester/course start. See the Admissions page on our website for more information on important dates and deadlines. The class add must be processed via AccessRío, and students who complete this process are officially enrolled in the class.

If the class and wait list are full, the student must attend class on the first day of instruction and request an add code from the instructor. If the instructor provides an add code, the student can then use the add code to register for the class via AccessRío by the published deadline.

**Dropping Classes: It is the student's responsibility to officially withdraw (drop) from classes prior to the drop deadline. Students must drop before the "Last day to Drop with a Refund" to avoid fees or drop before the "Last day to Drop With a "W" to avoid receiving a failing grade.**

**Student-Initiated Withdrawal:** While it is the student's responsibility to withdraw by the deadline, an instructor may drop a student with poor attendance. To find the drop deadlines for a particular course consult the online Class Schedule and click on the CRN number of the course. There students will find information on critical dates for the specific course, including drop dates.

The student must withdraw from the class via Access Río by the established deadline. Failure to follow through with the drop procedure may result in the student receiving a failing grade. Students may contact the Admissions and Records Office if they need assistance in withdrawing from class(es).

**Instructor-Initiated Withdrawal:** A student may be withdrawn before the drop deadline (75% of course length) by the instructor of the course if the student is no longer participating in the course. Definitions of non-participation shall include, but are not limited to, excessive unexcused absences. While an instructor may drop a student from class for poor attendance, it is the student's responsibility to withdraw if the student is no longer attending the class.

### There are five types of course withdrawal notations:

1. **Withdrawal with a refund** – A student who withdraws from a course before the published deadline to drop with a refund (10% of the course) will not be responsible for the fees for the course and no notation will be on their student record (transcript) for the dropped course.

2. **Withdrawal without receiving a "W"** – A student who withdraws from a course after the refund deadline and before the published deadline to drop without a "W" (30% of course length) will receive no notation on their student record (transcript) for the dropped course. A student is still responsible for enrollment fees. A student who withdraws from all classes prior to the "drop without a "W" deadline will no longer be classified as a continuing student for priority registration purposes.

3. **Withdrawal with a "W"** – A student who withdraws from class between 30% to 75% of the course length (after the drop without a "W" but before the drop deadline) will receive a "W" notation on their student record (transcript). The "W" is not used to calculate a student's grade point average (GPA) but may affect academic progress and result in progress probation/dismissal.

4. **Military Withdrawal "MW"** – A student serving as an active or reserve U.S. military serviceperson who receives orders compelling a withdrawal from courses may request a military withdrawal. Upon submission and verification of such orders, a student can petition to withdraw from classes with a "MW" notation on the student's transcript. Military withdrawals are not counted in progress probation and dismissal calculations. Military withdrawal petitions are available in the Admissions and Records Office. A Military Withdrawal is eligible for a full refund.

5. **Excused Withdrawal "EW"** – A student may submit a petition to withdraw from a course(s) due to specific events beyond their control which affects their ability to complete a course(s). These events may include a job transfer outside the geographical region, an illness in the family where the student is primary caregiver, the student is subject to immigration action, or other extenuating circumstances. The excused withdrawal "EW" notation is not counted in progress probation and dismissal calculations. An Excused Withdrawal is not eligible for a refund.



## Evaluation of Transcripts

All students enrolled at Río Hondo College should have official transcripts from their high school on file.

Students with previous coursework from a regionally accredited college/university should have official transcripts from all colleges attended sent directly to Río Hondo College. Hand carried transcripts are not accepted. These transcripts can verify completion of prerequisite courses and assist the counselors in working with the student. Official transcripts from all regionally accredited colleges are required for evaluation towards a certificate, associate degree, or meeting general education requirements for transfer.

Transcripts from foreign universities must be evaluated by an approved credential evaluation service.

All transcripts must be sent directly to the Admissions and Records Office. Transcripts become the property of the college and cannot be returned to the student, copied, or forwarded to another institution.

## Student Equity and Achievement Program

In 2018, the SEA Program was established and merged funding for three initiatives: the Student Success and Support Program; the Basic Skills Initiative; and Student Equity. Integrating these efforts into a single program advances our goal of demolishing once and for all the achievement gaps for students from traditionally underrepresented populations.

The SEA Program requires the implementation of a Guided Pathways framework offering a clear path to a stated goal, to provide all students with an education plan based on that goal, and provide access to transfer-level English and math. Students identified as matriculating are referred to core services: placement, orientation, and counseling.

Non-matriculating students are exempt from participating in core services, but they are advised to access these services if they decide to pursue a degree or certificate. A student is expected to participate in these services unless the student requests an exemption from a particular service. Exemption forms may be obtained in the Counseling Department. All students are strongly encouraged to participate in the process.

Military Veteran students must participate in all matriculation components as required by the Veterans Administration (VA).

## Five Steps to Becoming a Río Hondo College Student

Included in the following section are the Five Steps to becoming a Río Hondo College student.

**Non-Exempt Students:** All new non-exempt students ("non-exempt" refers to students seeking an AA-T/AS-T degree, a certificate or transfer) are required to complete the following Placement, Orientation, and Educational Plan (prior to registration for classes). Students who do not complete their Placement, Orientation and Educational Plan will receive an immediate hold on their registration.

### Step 1: Application

Río Hondo College uses Open CCC for application processing. To submit an application for admissions log on to [www.riohondo.edu](http://www.riohondo.edu) and click the "Apply Now" button.

### Step 2: Orientation

Orientation to the college is an important part of the matriculation process and should be completed prior to the first semester of coursework. It provides students with information on college

services, registration procedures, course placement, and recommended courses to register for in the first semester. Students can complete the online orientation through the AccessRío student portal.

### Step 3: Placement

All students will have the opportunity to enroll in transferlevel English and Math. Students are asked to complete the Placement Tool which can be obtained through the AccessRío student portal.

In order to successfully complete the Placement Tool students will need their high school grade point average, highest level high school English course completed, as well as highest level of high school math course completed.

Depending on the results and information that is submitted through the Placement Tool students may be placed into a support class for both English and math, as an added support course. Students meet with a Counselor after completing the Placement Tool to gather more information about the student's academic history and educational goals. Counselors will consider factors such as student's English skills, coursework taken at another college, study skills, or the need for special services. As a result of the meeting with the Counselor, the initial placement, based only on default placement rules, may change. Taking into consideration both high school achievement information and other factors revealed in the counseling meeting, the Counselor will determine the final course placement.

Students are encouraged to take the highest level course that they feel comfortable with. If needed, a student can also complete the placement process by meeting with a counselor for placement.

In accordance with AB 705, Río Hondo College no longer administers an assessment for placement. For K-8 Placement: students must obtain clearance from the academic Dean that oversees the course they wish to enroll. A completed K-8 petition form, and letter of recommendation from the student's Principal will be reviewed by the respective academic Dean prior to student course placement. For information, please contact the Río Success Lab at (562) 463-7226 or visit LR-141.

### Step 4: Educational Plan

The Educational Plan process is designed to support students with the finest academic advisement and counseling possible. Placement information assists the counselor in outlining a useful and clear educational plan for the student's educational goals. Students can schedule an appointment throughout each semester and during the summer. For more information, please contact the Counseling Center at 562-908-3402 or the Student Success Center at 562-463-6650.

### Step 5: Registration

Upon completing steps 1-4, a student can register online on dates specified online under the admissions and records link.

**Registration Appointments** – The appointment time established for each student is the date and time the student can begin using the AccessRío online registration system for a given semester.

Students can find their registration appointment times by logging into their AccessRío account under Student, Registration and then clicking on Registration Status.

All new students are encouraged to participate in the components of admission, orientation, placement, and educational planning. However, exemptions for these components may be granted if certain criteria are met. (See Matriculation Exemptions.) Río Hondo College administers a priority enrollment system for students who qualify based on program participation and/or to meet legislative requirements.

## College Responsibilities

The college has certain responsibilities to support student success and agrees to provide the following:

- Processing applications for admission
- Placement
- Orientation to college programs and services
- Counseling/advising to provide assistance in developing an educational plan
- Follow-up and referral to services

## Student Responsibilities

The student also has certain responsibilities. The student, to support their own success:

- Express a broad educational intent upon admission
- Complete the Placement Tool or meet with a counselor and provide information to support placement
- Declare a specific educational goal by the time 12 semester units are completed
- Meet with a counselor to develop an educational plan within the same semester
- Participate in counseling/advisement
- Attend class, complete assignments, and maintain progress toward a defined goal
- Drop classes he/she no longer wishes to attend

## Student Rights

In accordance with the matriculation agreement, the student has the right to:

- Challenge placement decisions and any prerequisite or corequisite by completing the appropriate form, which can be obtained from the Counseling Department.
- You may file a complaint of unlawful discrimination with the Dean of Student Support Services.

## Matriculation Exemptions

Students who meet one of the following exemption criteria for any of the matriculation components, may obtain an exemption form from the Counseling Department. Military students must participate in all matriculation components as required by the VA.

### A. Placement, Orientation, and Counseling

All students are encouraged to participate in these components; an exemption may be granted according to one of the following criteria:

- Students who are enrolled only in activity, skill building, or personal growth classes (e.g., acting, physical fitness, ceramics) or job skills training (e.g., computer literacy, accounting, brake service), or
- Students who have already completed an AA/ AS degree or higher. Military students must participate in all matriculation components as required by the VA.

### B. Placement

Further placement exemption may be granted according to one of the following criteria:

- Students who have successfully completed the equivalent of ENGL 101 at another community college or university do not

have to complete the Placement Tool for English, however this does not exempt them from Math.

- Students who have successfully completed the equivalent of transfer-level math at another community college or university are exempt from completing the Placement Tool for Math, however, this does not exempt them from English.

### C. Orientation

All students must complete the online orientation; an exemption may be granted according to one of the following criteria:

- Students who are concurrently enrolled at a four-year college or university, or
- Students who have previously participated in a Río Hondo College orientation.

## RHC Prerequisite/Corequisite/Advisory Definitions

The college requires students to meet prerequisite/corequisite requirements before taking the course in question.

**Prerequisites** – A course prerequisite indicates that the preparation or previous coursework is considered necessary for success in the desired course. In order for a prerequisite requirement to be met, the prerequisite course must be passed with at least a satisfactory grade. If a prerequisite course is taken at Río Hondo College, the grade of "P" or a minimum grade of "C" is required.

**Corequisites** – A course corequisite indicates another course that must be taken concurrently (at the same time) with the desired course.

Prerequisites/corequisites that are listed in the college catalog include:

- Courses for which specific prerequisites/corequisites have been validated,
- Sequential coursework in a degree-applicable program, and
- Courses in which a prerequisite/corequisite is necessary for transfer to a four-year college.

Questions about prerequisites/corequisites are best resolved with a counselor or instructor prior to the first day of class. If students are attempting to meet a prerequisite/corequisite through the placement process, they may appeal (challenge) their placement results.

**Advisories** – A course advisory indicates that if students have the designated preparation or previous coursework, they are likely to perform better academically in the course or program in question because of that experience or preparation. Unlike prerequisites or corequisites, advisories do not require that students have the suggested preparation; rather, it is strongly recommended.

## Clearing a Prerequisite

If a student believes they have met a prerequisite at another institution, they can see a counselor for a prerequisite clearance. Students must provide evidence of meeting the prerequisite using documentation such as an academic transcript. Contact Counseling Center for details (562) 908-3410.

## Prerequisite/Corequisite Challenge Procedure

All students have the right to challenge any prerequisite or corequisite. A prerequisite or corequisite challenge

requires written documentation that should include an explanation of alternative coursework and/or background or abilities that adequately prepares the student for the course. A Prerequisite/Corequisite Challenge form can be obtained from the Counseling Department, division offices or at [www.riohondo.edu](http://www.riohondo.edu) under Academic divisions, Career & Technical Education, Counseling.

**Reasons for challenging a prerequisite may include one or more of the following:**

1. A prerequisite/corequisite is not reasonably available (must be made prior to the first week of the semester) or the student believes the prerequisite/corequisite is not valid or necessary for success in the course or which it is required, or
2. The student believes the prerequisite/corequisite is discriminatory or being applied in a discriminatory manner, or
3. The student has the documented knowledge or ability to succeed in the course without meeting the prerequisite/corequisite.

Upon filing the Prerequisite/Corequisite Challenge form, the student may enroll in the challenged class. If the challenge is not upheld, the student will be required to drop the class. The district will ensure that the challenge process is finished, and the student is notified in writing within five (5) working days. Students wishing to appeal this decision should contact the Dean of Instructional Operations/Career & Technical Education (Room T-123).

## Educational Costs

**Enrollment Fee** – Students who have established legal residence in California must pay the enrollment fee established under state law and subject to change without notice. These fees will be waived at the time of enrollment if the student can demonstrate he/she qualifies under the exempt criteria specified by the State of California. Out-of-state and international students must pay nonresident tuition fees of \$342.00 per unit for Fall/Spring terms and \$332.00 per unit for Summer term, plus the \$46.00 a unit fee as required under state law (fees subject to change).

**College Services Fee** – The Associated Students of Río Hondo College is funded through the college services fee. The fee is \$7.00 for day, evening, and off-campus students during the fall and spring semesters and \$4.00 for summer sessions. The fee is automatically assessed at the time of registration. A waiver form is available in the Admissions and Records Office.

**GO RIO Fee** – This fee was approved by the Associated Students of Río Hondo College to subsidize costs of the GO RIO bus program. The fee is \$9.00 for Spring and Fall terms only. A waiver form is available in the Office of Government and Community Relations. Students must meet eligibility criteria to qualify for the GO RIO fee waiver.

**Student Parking Fee** – Under provision of Education Code 72247, a Student Parking Fee program has been established. This fee provides for the use of student parking lots, better traffic flow during peak hours, parking lot security, and use of the tram service.

The student vehicle parking fee for day and evening students during the fall/spring semesters is \$40.00. The fee for vehicle parking during summer term session is \$20.00. Motorcycle parking is \$10.50 for fall/spring semesters; \$5.50 for summer term session. There is a daily \$3.00 parking fee and a \$0.25 meter parking fee for 15 minutes, with a one hour maximum. **Note: Mail orders are**

**subject to a non-refundable \$3.50 mailing fee and 5% credit card convenience fee. Pickup orders are not subject to a service fee. A 5% convenience fee will be added to credit card pickup orders. Fees are subject to change.**

**Student Health Fee** – Río Hondo College provides a health services program, as approved by the Board of Trustees, for students who formally register at Río Hondo College, are currently enrolled, and pay a \$23 health fee (\$20.00 for summer). Antibiotic medication and women/wellness laboratory tests are available for a nominal fee. Fee-exempted students include those who document religious reasons. A full refund will be made only if requested in writing prior to the semester refund deadline.

**Student Representation Fee** – This \$2.00 fee provides support for students or representatives who may be stating their positions and viewpoints before city, county, and district government, and before offices and agencies of the state and federal government. Students may refuse to pay this fee on religious, political, or moral grounds by submitting a refusal in writing to the Office of Student Life and Leadership prior to registration.

**Books** – Students are required to purchase all books and supplies needed for their courses. Book costs will vary from semester to semester. Often purchasing used books can reduce this amount.

## Scholarships

A variety of scholarships are available to Río Hondo College students. For more information, contact the Río Hondo College Foundation at (562) 908-3476 or go online to [www.riohondo.edu/foundation](http://www.riohondo.edu/foundation) to view scholarship opportunities.

## Enrollment/Fees Refunds

### Resident Students

Resident students who drop by 10% of the course will receive a refund. Refunds are automatic and do not require any paperwork to be submitted. Please check the Río Hondo web site, under the Admissions Important Dates and Deadlines, link for specific deadline dates. Any enrollment fee refund is subject to a once-per-semester service charge of \$10.00. Last day to drop with a refund deadline may vary. Please visit the online Class Schedule and click on the course CRN for specific dates for each course.

### Out-of-State/Nonresident Students

Nonresident students who drop by 10% of the course section will receive a refund. Refunds are automatic and do not require any paperwork to be submitted. Any enrollment fee refund request is subject to a once-per-semester service charge of \$10.00. Last day to drop with a refund deadline may vary according to the course begin and end dates. See Important Dates and Deadlines on the Admissions and Records webpage for specific dates.

The nonresident student will receive a 50% refund of out-of-state fees if the request for a refund is received in Admissions and Records during the third or fourth week of the fall/spring semester or during the second week of the summer session. No refunds will be granted after the fourth week of the fall/spring semester or after the second week of the summer session. Please check the Admissions webpage under Fees & Refunds [www.riohondo.edu/admissions/feerefunds/](http://www.riohondo.edu/admissions/feerefunds/) for specific deadline dates.

In the event that law mandates other fees and law does not prescribe the refund policy, the refund of such fees shall be in the same manner as the refund of health, college services, and parking fees.

# 4 Support Services and Special Academic Programs

## Academic Advisement

Assistance in developing an educational plan to obtain a certificate, degree, or to transfer to a university is available through contact with the counselor who advises in the student's major field or any general counselor in the Counseling Department.

All regular instructors maintain office hours each week to interact with students. Faculty members are valuable contacts in providing personal information related to a student's career or college choice.

## Black Scholars Program

The Black Scholars Program (BSP) is a mentorship-based learning community for Black students at Rio Hondo College. BSP is committed to empowering Black students and helping them achieve their academic and career goals. We seek to cultivate a sense of belonging among Black students by building a community on campus, uplifting their voices, and removing barriers. BSP is here to help you throughout your academic journey! For more information, please visit us in LRC-101, or email us at [blackscholars@riohondo.edu](mailto:blackscholars@riohondo.edu).

## CalWORKs Program

The California Work Opportunity and Responsibility to Kids (CalWORKs) program helps student-parents that are CalWORKs recipients in the state of California. We are here to help students achieve their educational goals while preparing them to re-enter the workforce and become self-sufficient. The CalWORKs program provides the following free resources/services:

- Academic and career advising
- Assistance with county social services departments (Los Angeles, Orange, San Bernardino, Etc.) compliance and paperwork
- Assistance with purchasing books and school supplies
- Assistance with purchasing laptops, calculators, internet hotspots
- Childcare referrals for class and study time
- Job development and preparation
- Meal Vouchers for on-campus vendors
- Priority Registration status
- Transportation assistance
- Work study opportunities on and off campus

Students must be considered a CalWORKs recipient with their local county and be enrolled in any credit or non-credit courses at Rio Hondo College. For more information, please visit our office in the Student Services building, Room SS220, contact our office at (562) 463-7311, or visit our website at <http://www.riohondo.edu/calworks/>.

## Center for Career &

## Re-entry Services

## Career Services

The mission of the Center for Career & Re-Entry Services (CCRS) is to assist individuals in making informed career and life decisions by providing a clear pathway through extensive career and educational counseling services, and engaging activities. The CCRS is also dedicated to helping adult learners succeed through the provision of comprehensive educational, counseling, and support services.

- Career & General Counseling
- Online counseling
- Career assessments and interpretation
- Services/resources for adult learners
- Career and job preparation
- Résumé and cover letter development
- Assistance with choosing or changing a major
- Access to job board

## Re-entry Services

The CCRS offers resources to non-traditional/adult students (at least 23 years old) new to college or who are returning after a prolonged absence. Adult Re-Entry students receive the following additional support services:

- Counselors available to assist in navigating all Río Hondo College resources
- Individualized career counseling services including career-related workshops and information sessions specifically designed for Adult Re-Entry students
- Online counseling services that allow Adult Re-Entry students to experience a face-to-face counseling session in an online environment
- Assistance in creating an educational plan, schedule, and registering for classes
- Use of computer lab (with free printing)
- FREE career assessments and interpretations
- A monthly newsletter highlighting campus events
- Annual Adult Re-Entry Success Conference
- Access online job portal

For more information, visit the CCRS located in SS350, contact our staff at (562) 908-3407, or visit our website at <http://www.riohondo.edu/career-center/>.

## Child Development Center/ Pre-School Laboratory

The Child Development Center/Pre-School Laboratory, accredited by the National Association for Education of Young Children (NAEYC),



operates a high-quality early childhood program for preschool children between the ages of 2 and 5 years old and are not required to be toilet trained. The Center is supported by state funds and parent fees. Enrollment is available for Río Hondo student parents, staff and faculty and the local community. Río Hondo student parents are the highest priority as they can receive wrap-around services and up to 90% free tuition for their preschool age children through the Federal Child Care Access Means Parents In School (CCAMPIS) grant. Eligibility for state-subsidized funding is determined by a combination of family size and income. Some families may pay fees based on a sliding scale. Hours of operation are 7:30 A.M. to 5:00 P.M., Monday through Friday. Holidays and breaks are observed in accordance with the RHC academic calendar. For more information, please call (562) 908-3494 or visit the Río Hondo website (click on [www.riohondo.edu/cdc](http://www.riohondo.edu/cdc)). Río Hondo College students from the Child Development/Education Department, the Behavioral and Social Science Division and Nursing utilize the Pre-School Laboratory to observe the development and behavior of pre-school children and to apply the knowledge that they gained in their courses working directly with children.

The program implements the California Preschool Learning Foundations and Curriculum Frameworks, which prepares children for Kindergarten and the child development field's agreed upon developmentally appropriate practices.

Teachers prepare the learning environment and plan activities to challenge each child's developing skills and understanding while focusing on their interests. Each child's entry skill level and developmental progress is tracked and documented utilizing the California Desired Results Developmental Profile (DRDP).

## Computer Resources

Río Hondo offers computer access to students at various locations. Visit the Computer Resources web page for more information.

- Center for Career & Re-entry Services (SS350)
- Disabled Students Programs and Services (SS330)
- El Monte Educational Center
- Learning Assistance Center (LR114)
- Library (2nd Floor)
- Math and Science Center (S300)
- Río Hondo Educational Center at Pico Rivera
- Santa Fe Springs Regional Training Center
- South Whittier Educational Center
- Student Services Building (1st Floor)
- Student Success & Dream Center (LR101)
- Transfer Center (SS250)
- TRIO SSS Program (SS106)

## Continuing, Contract & Noncredit Education

The Continuing Education mission is to enrich and support the lives of non-traditional college students by providing lifelong learning opportunities through many academic pathways. The high-quality instructional programs are a combination of fee-based and noncredit courses directly reflecting the needs of the community. The courses provide students with an opportunity for language acquisition, career advancement, college preparedness, and life enrichment through good health and personal fulfillment. While the College offers many of the same opportunities, the Continuing Education department focuses on the personal and professional development of the diverse nontraditional students.

The Continuing Education department brings customized Professional Development business and short-term training to the community and local businesses. Training programs are designed to meet specific needs of the organization. Professional development courses and workshops are offered on campus, in the community,

online, and are available to community members and employees of area businesses. Programs include computer applications, small business workshops, career development, supervision, international business, environmental technology, pharmacy technician, personal development and more. Contract Training can be conducted at a company site or at the college training facilities. Bilingual training programs are also provided.

For information, please refer to the Continuing Education Class Schedule, or our web page: <http://www.riohondo.edu/continuing-education/> or call (562) 463-4606.

## Counseling

The Counseling Center provides support to Río Hondo students, faculty, and the campus community. Counselors strive to respect individuality, to encourage personal development and to foster a climate in which academic growth will occur. Therefore, counselors and students work together in establishing, clarifying, and pursuing personal, educational, and career goals.

The Counseling discipline offers courses (COUN 100, 101, 102, 103, 104, 105, and 151) which are designed to aid students in acquiring the skills, information, and personal awareness needed for college and career success.

Counselors can assist students with a variety of issues: program planning, choosing a major, graduation requirements, transfer requirements to 4-year colleges and universities, personal problems, scholarships and financial aid programs, tutoring referrals, and communication with a professor. Students should make an appointment well in advance of registration to meet with a counselor. More information is available on the Counseling web page or by calling (562) 908-3410. The Counseling Department is located in the Student Services Building, room SS160.

## Disabled Students Programs & Services (DSPS)

Río Hondo College offers both classroom instruction and student support services for students with disabilities. Expert staff are available to students who need disability-related accommodations and support services. A variety of support services are available to eligible students with a disability. Students with a disability, including but not limited to students with a physical, learning or psychological disability, students with a visual impairment, acquired brain injury, Attention Deficit Hyperactivity Disorder (ADHD), an Autism Spectrum Disorder, or Intellectual Disability may be eligible for services.

Services include test-taking assistance, sign language interpreters and real-time captioners, Braille and non-Braille transcription services, and disability-related specialized counseling services. Other services include registration assistance, priority enrollment and a variety of assistive computer technologies which promote equal access to college instructional programs and activities for students with disabilities.

For complete information on our programs please contact Disabled Students Programs & Services at (562) 908-3420, via video phone at (562) 364-8433 or visit our web page. The DSPS office is located in the Student Services Building, Room SS330.

## Distance Education: Online Courses

Río Hondo College offers students the opportunity to take college courses over the Internet through its Office of Distance Education. Online courses offer the same curriculum as traditional classes except students may obtain lectures, class materials, communicate with the instructor, participate in class discussions and complete assignments via the Internet. Río Hondo's Office of Distance Education offers students a variety of online courses to fulfill

general education, certificate, degree, and transfer requirements for the University of California, California State Universities, and other private universities. Online registration, counseling, tutoring and library support services are available. The instruction provided as distance education is subject to the requirements that may be imposed by the Americans with Disabilities Act (42 U.S.C. §12100 et seq.) and section 508 of the Rehabilitation Act of 1973, as amended, (29 U.S.C. §794d). For further information check the online Class Schedule, visit the Office of Distance Education web site or call (562) 463-3218.

## The Dreamers' Resource Center (DRC)

The Dreamers Resource Center (DRC) is committed to assisting undocumented student by creating a safe space on campus and providing educational support services. Through partnerships, the DRC offers legal referrals, and helps with applying to the CA Dream Act and submitting the CA Non-Resident Tuition Exemption form, among other services. In 2017, Rio Hondo College introduced the UndocuScholars Program to further support undocumented students.

### UndocuScholars Program

The UndocuScholars Program is a mentorship-based learning community for undocumented students at Rio Hondo College. The program offers academic counseling, peer-to-peer mentorship, and additional resources to help students achieve their academic and career goals. We seek to cultivate a sense of belonging among undocumented students by uplifting their stories and removing barriers.

The DRC and UndocuScholars are here to help you throughout your academic journey! For more information, please visit us in LRC-105, or email us at [dreamers@riohondo.edu](mailto:dreamers@riohondo.edu).

## Educational Talent Search Program (ETS)

ETS prepares eligible high school students attending El Rancho, Whittier and Pioneer High Schools to be able to apply and attend college. The program provides:

- Educational counseling and advisement
- College and financial aid application assistance
- Tutoring
- College Tours and STEM Field Trips
- Academic Enrichment Workshops
- Dual Enrollment Student Support Services

## Extended Opportunity Programs & Services (EOP&S/CARE)

Extended Opportunity Programs & Services is a state funded program that provides "over and above" services to students from economically and educationally disadvantaged backgrounds. The program supports the enrollment, retention, and transfer of students and helps facilitate the successful completion of their educational goals. EOP&S services include:

- Counseling Services/Educational Planning
- Priority Registration
- Academic Probation Interventions
- Textbook Services
- Educational Supplies
- Cap & Gown for Graduates
- Meal Vouchers

Cooperative Agencies Resources for Education (CARE) is a supplemental component of (EOP&S) that specifically assists

students who are single head of households with children, by offering supportive services so they are able to acquire the education, training and marketable skills needed to transition from welfare-dependency to employment and eventual self-sufficiency for their families. In addition to EOP&S services, CARE students may also receive:

- Motivational & informational Workshops
- CARE Grants
- Meal Vouchers
- Gas Cards
- Agency & County Referrals
- Single Parent Conferences
- Case Management and Advocacy
- Family Holiday Events

To find out how to qualify for EOP&S/CARE or to get more information, please contact our office at (562) 908-3423 or come visit us in the Student Services Building, room SS240. [www.riohondo.edu/eops](http://www.riohondo.edu/eops)

## Financial Aid Services

Río Hondo College participates in a variety of Federal and State financial aid programs. These programs are designed to assist students with tuition, fees, books, supplies, transportation and room and board.

Most financial aid programs require a student to be enrolled at least half-time in a financial aid eligible degree, certificate, or transfer program. Federal aid eligibility is also limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens. Additional eligibility requirements apply to each program and may be obtained from the Financial Aid Office.

To apply, students must complete a Free Application for Federal Student Aid (FAFSA) at <https://studentaid.gov> or a California Dream Act Application at <https://dream.csac.ca.gov>. The Río Hondo College Federal School Code is 001269. The priority deadline to apply is March 2 to be eligible for all available aid. However, you may still apply after March 2, although funding may be limited. Visit the Financial Aid Office for further information located in the Student Services Building, room SS130 or visit the Financial Aid web page at <https://www.riohondo.edu/financial-aid/>.

### Federal Financial Aid Programs

The federal government offers a variety of financial aid programs for students.

**Federal Pell Grant** - This grant is available to all eligible applicants. Limited eligibility may also be available to less than half-time students.

**Federal Supplemental Educational Opportunity Grant (FSEOG)** – A limited number of grants are available. Priority is given to students who apply by the priority deadline, have Federal Pell Grant eligibility, and exceptional financial need.

**Federal Work Study** - Provides part-time jobs to students with financial need. Students generally work up to 20 hours per week and must be enrolled in at least 6 units.

**Federal Direct Loan Program (FDLP)** - Students may apply for a Subsidized or Unsubsidized loan from the federal government. Loan workshops, Loan Entrance Counseling, and a loan application are required for all students applying for a student loan. Students must be enrolled in at least 6 units. Federal student loans must be repaid with interest.

### Return to Title IV Funds

In accordance with the Federal Regulations HEA, Section 4848, 34

CFR 668.22, Río Hondo College will apply a refund policy to all eligible students under the Return to Title IV funds requirements. Students who receive federal financial aid and withdraw from classes prior to completing at least 60% of the semester will have their financial aid eligibility recalculated and may have to repay any "unearned" portion of financial aid received.

### **Loans (Emergency Loans from ASRHC)**

The Associated Students of RHC offer a 60-day, interestfree loan to students to assist them in emergency situations and for the purpose of buying books and supplies. Students who have no outstanding debt to the college, are enrolled in a minimum of 6 units, and have a GPA of 2.0 or above may apply at the Student Life & Leadership Department in the Student Union, during the first 2 weeks of the fall and spring semesters only. Loans are on a first-come, firstserved basis.

### **Scholarships (Institutional Financial Aid Programs)**

There are numerous scholarships available to Río Hondo College students. These scholarships are funded and sponsored by a variety of on and off campus resources. To view or apply for available scholarships please visit: [www.riohondo.edu/scholarships/](http://www.riohondo.edu/scholarships/)

### **State Financial Aid Programs**

The State of California offers a variety of grants for students. The California Dream Act of 2011 is the result of two assembly bills (AB130 and AB131). Together these bills allow undocumented and documented students who meet certain provisions of AB540 law to apply for and receive private scholarships funneled through public universities, stateadministered financial aid, university grants and community college fee waivers. To apply, students must complete a free California Dream Act application with the California Student Aid Commission each year by March 2nd for priority filing.

**Cal Grants** – The California Student Aid Commission awards Cal grants. Students must be legal residents of California and have financial need or qualify for AB540 status. To be considered, students must complete a Free Application for Federal Student Aid (FAFSA) at [www.studentaid.gov](http://www.studentaid.gov) or California Dream Act Application at [www.csac.ca.gov](http://www.csac.ca.gov) and submit a GPA Verification form by the March 2 deadline. (September 2 is an additional deadline for FAFSA filers attending California Community Colleges only.)

- **Cal Grant B** - This grant helps students with living expenses, books, supplies, transportation and other non-direct educational expenses.
- **Cal Grant C** - Assists with the cost of a technical or career education. Provides assistance for books, tools and equipment.
- **Student Success Completion Grant (SSCG)** - The Student Success Completion Grant (SSCG) is a financial aid program for Cal Grant B and C recipients attending a California Community College full-time (12 units or more). The purpose of the Student Success Completion Grant is to provide students with additional financial aid to help offset the total cost of community college attendance, and to encourage full-time attendance and successful on-time completion. On top of the Cal Grant B or C award paid at community colleges, the Student Success Completion Grant pays full-time Cal Grant B or C recipients \$1,298 per semester (a maximum of \$2,596 annually) for eligible students who enroll and attend 12 through 14.99 units per term and \$4,000 per semester (a maximum of \$8,000 annually) for eligible students who enroll and attend 15 units or more per term and be enrolled in 30 units per aid year. Students enrolled in 12 units may be eligible, only if 30 units or less are required to complete their educational goal. To be eligible for the Student Success Completion Grant (SSCG), a student must: be a Cal Grant B or C recipient who received a fulltime Cal Grant payment; be enrolled full-time (12 units or more); be meeting Satisfactory Academic Progress (SAP) standards and; have unmet need to receive the SSCG. In order to determine eligibility, students

must submit a Comprehensive Student Educational Plan to the Financial Aid Office.

- **California College Promise Grant** (formerly known as the Board of Governors Fee Waiver) - Offers two years free tuition to eligible first-year college students who are California residents, permanent residents or qualify for the California Dream Act. Eligible students must complete either the Free Application for Federal Student Aid (FAFSA) or the California Dream Act Application.

### **Loss of Eligibility for California College Promise Grant**

A student shall become ineligible for a California College Promise Grant if the student is placed on academic or progress probation, or any combination thereof, for two consecutive primary terms.

Loss of California College Promise Grant eligibility shall become effective at the first registration opportunity after such determination is made. Foster Youth shall not be subject to loss of eligibility due to placement on academic or progress probation. This exemption for Foster Youth is effective until the date specified in Education Code section 66025.9(c).

### **Appeal Loss of Board of California College Promise Grant**

A student may appeal the loss of a California College Promise Grant due to extenuating circumstances or where a student with a disability applied for, but did not receive a reasonable accommodation in a timely manner. Extenuating circumstances are verified cases of accidents, illnesses, or other circumstances that might include documented changes in the student's economic situation or evidence the student was unable to obtain essential student support services. Extenuating circumstances also includes special consideration of the specific factors associated with COVID-19, Veterans, CalWORKs, EOPS, and DSPS student status. Additionally, a student may appeal to regain California College Promise Grant eligibility by demonstrating significant academic improvement (i.e., minimum 2.0 GPA and completing more than 50% of attempted units) or by sitting out for two consecutive primary terms.

### **Satisfactory Academic Progress Policy (SAP)**

The federal government mandates aid recipients to make satisfactory academic progress (SAP) towards a degree or certificate to maintain financial aid eligibility. To determine continued eligibility, the Financial Aid Office reviews each student's academic progress at the end of every semester, including summer.

Satisfactory Academic Progress is evaluated in three areas:

1. **Grade Point Average Requirement** - Student's pursuing a course of study leading to an A.A degree, A.S degree, Baccalaureate degree, certificate, or transfer program must maintain at least a 2.00 cumulative GPA average.
2. **Unit Requirement/Pace of Progression** - Students are required to successfully complete a minimum of 67% of units attempted each semester. Classes with grades of A, B, C, D, or P are considered units successfully completed. Classes with grades of F, I, NP, IP, W, or EW will count as attempted units, but not as successfully completed units.
3. **Maximum Time Frame Requirement** - Students enrolled in a degree or certificate program may receive financial aid for a maximum of 150% of the length of that program. Degree programs at Río Hondo College typically require a 60 unit length for completion. Thus, students may receive financial aid for up to 105 attempted units (70 units x 150% = 105 units). Students pursuing a Baccalaureate degree from Río Hondo College may receive financial aid for up to 180 attempted units. Once unit maximum is reached, students are ineligible to receive further financial aid. Grades of F, I, NP, IP, W, or EW are considered attempted units and included in Maximum Time



Frame unit calculation.

Students not meeting any of the minimum SAP requirements outlined above will be placed on financial aid warning for one academic semester (students exceeding maximum time frame are not placed on financial aid warning). Students on financial aid warning may continue to receive financial aid during this period.

Students not meeting minimum SAP requirements for two consecutive semesters will be suspended from receiving financial aid (federal and state, with the exception of the California College Promise Grant). Any financial aid awarded when a student becomes ineligible will be withdrawn.

### **Satisfactory Academic Progress Appeals**

Students suspended from receiving financial aid can regain financial aid eligibility by meeting minimum SAP requirements (2.0 GPA, completing 67% of attempted units, not exceed 105 units).

SAP appeals are reviewed by the SAP Appeals Committee, for approval or denial, based upon the student's individual circumstances. The remaining ineligible students must submit a SAP appeal. For more information about the sap appeal process visit <https://www.riohondo.edu/financial-aid/sap-appeal-process/>

## **Gainful Employment**

The final program integrity regulations published in the Federal Register on October 31, 2014, and a correction published in the Federal Register on December 4, 2014 [79 FR 64890 and 79 FR 71957] require postsecondary institutions that participate in the student financial assistance programs authorized under Title IV of the Higher Education Act of 1965 (HEA), as amended, to disclose to prospective and current students certain information about the institution's Gainful Employment (GE) Programs. The information disclosed includes but is not limited to, total costs (tuition/fees as well as books and supplies), completion rates, graduate earnings, and debt and repayment rates.

Generally, GE Programs include:

- At public and private not-for-profit institutions: Title IV-eligible non-degree programs (e.g., certificate and diploma programs).
- At for-profit institutions: All Title-IV eligible instructional programs, degree and non-degree.

Gainful Employment Disclosures are currently available for the following Río Hondo College programs:

Accounting  
Business Marketing  
Child Development  
Civil Design & Drawing  
Civil Design Technology Program  
Computer Information Technology: Computer Systems  
Electronics Technology  
Engineering Design Drafting Technician  
Environmental Technology  
Fire Technology  
Geographic Information Systems  
Heat & Frost Insulating  
International Business  
Logistics Management  
Retail Management  
Small Business Management  
Vocational Nursing Program

## **Honors Transfer Program**

Río Hondo's College Honors Transfer Program is designed to challenge, enrich and prepare academically talented and highly

motivated community college students seeking transfer to a four-year university. The curriculum emphasizes critical thinking, research synthesis and college-level writing proficiency. In addition, the program is designed to create a community of like-minded scholars and promotes opportunities for student engagement beyond the classroom experience.

Many honors classes are kept intentionally small to facilitate the discussion/seminar rather than lecture format. A reduced class size also encourages a more collaborative learning experience allowing students to interact more freely with each other and the faculty members who teach these courses.

Río Hondo College has signed honors transfer agreements with UCLA, UC Irvine, and many other public and private universities. To fulfill the Honors Transfer Program requirements, students must successfully complete five honors courses, achieve at least a 3.2 grade point average for all transferable college courses taken, complete the required general education courses as well as prerequisite work for their major. In addition, honors students must meet with the honors counselor a minimum of once per semester. For more information about the program, visit the Honors Transfer Program website <http://www.riohondo.edu/honors/>.

## **Hope Scholars**

HOPE Scholars is a program, funded by the Dept of Education, that supported unhoused and transitionally homeless students. Students are eligible for services under AB 801. Additionally, Hope provides specialized counseling, case management, mentoring, educational workshops, and support with textbook and educational supplies. For more information, visit the Hope Scholars web page:

<https://www.riohondo.edu/student-life/scholars-hub/hope-scholars/>

## **Labs**

Labs provide an environment for students to practice and develop their skills in a variety of courses and often with the assistance of Instructors, Instructional Assistants, or Tutors.

### **Math, Science, and Engineering Center (MSEC)**

The Math, Science, and Engineering Center, located in the Learning Resource Center (LRC) building, room LR114, provides computers, mathematics interactive software, and multi-media study aids. An assigned instructor, instructional assistants, and tutors are available to assist students. Hours are listed on the MSC web page: [www.riohondo.edu/mathematics-and-sciences/math-science-center](http://www.riohondo.edu/mathematics-and-sciences/math-science-center).

### **Nursing Simulation Center**

The Simulation Center is a "safe" place for students to practice their skills in a simulated hospital environment, "Roadrunner General Hospital." It was created in order to support and supplement the clinical component of the nursing program. With the use of high-fidelity patient simulators and clinical scenarios, students are able to practice and experience situations that might not arise in the clinical setting, thus adding to their clinical expertise. The Simulation Center uses the following types of simulators: 2 adult, 1 birthing, 1 newborn and 1 pediatric, thus offering learning activities covering the full nursing curricula. Our Center is temporarily located in HS-11 near parking lot 3. For more information, visit the Health Science & Nursing web page.

### **Pre-School Laboratory**

Río Hondo Students from the Child Development/ Education Department, the Behavioral and Social Science Division and Nursing utilize the Pre-school Laboratory to observe the development and behavior of pre-school children and to apply the knowledge that they gained in their courses working directly with children.

### **Writing Center**

The Writing Center is located on the first floor of the Learning

Resource Center in LR124. It is available for students enrolled in English composition courses. Students should check their class schedule for their registered lab day and time.

### Writers' Resource Center

The WRC is located in LR118 and is open to any Río Hondo student who needs instructional assistance in English. Activities include specialized English tutoring, workshops, and one-on-one writing assistance from an English instructor for any subject.

### Library

Río Hondo College Library is the research center of the College. Occupying the second floor of the Learning Resource Center (LRC), the Library offers a full range of print and electronic books, print and electronic periodicals, online databases, and streaming videos in support of the curriculum, as well as for general enrichment. Computer workstations, ADA-compliant computers, wireless access, charging stations for mobile devices, Chromebooks and laptops, mobile hotspots, and a self-service copy/print center are also available.

Individual study carrels, group tables, and informal seating areas allow for quiet study. For students who prefer to work together on class assignments, there are seven group study rooms that can be reserved for two hours at a time.

### Circulation Services

The Circulation Desk at the entrance to the Library serves as the first point of student service. Library staff help:

- Activate your RHC Library privileges.
- Check out books, technology equipment (e.g., Chromebooks and laptops, mobile hotspots, graphing calculators, headphones), and select high-demand course textbooks.
- Loan audiovisual equipment to faculty and staff, and fill requests for campus signage.

### Reference Services

Because of the ever-expanding variety and range of information, students today must learn the critical thinking and information literacy skills required to use research resources appropriately. Librarian faculty at the Reference Desk teach these skills through:

- Individualized assistance with research queries
- Extended consultation by appointment with students and faculty
- Instruction in conducting effective research, in collaboration with teaching faculty on campus and at the educational centers
- Drop-in research workshops
- A 3-unit library research class (LIB 101)

For more information about RHC Library services, including the online catalog and research guides, please contact a reference librarian at (562) 908-3484 or connect with a librarian via text, chat, or Zoom on the Library's website at: [www.riohondo.edu/library](http://www.riohondo.edu/library).

### Math Engineering Science Achievement (MESA) and TRIO Student Support Services STEM

The MESA Community College and TRIO SSS STEM Programs support students who plan to graduate from Río Hondo College with an Associate's degree and transfer to four-year institutions in science, technology, engineering, and mathematics (STEM).

#### Program Objectives:

- Increase college retention and transfer rates to four-year institutions for STEM majors.

- Increase the number of under-represented students who graduate with degrees in STEM majors.
- Provide academic and personal support for STEM majors

### Program Components

- MESA Center for tutoring and group study in S205
- Academic Excellence Workshops designed to reinforce concepts and topics learned in chemistry, mathematics, and physics courses
- Academic advisement and educational plans through transfer
- Assistance with study skills and time management
- Support with application and transfer to four-year institutions
- Exposure to information about internships, research opportunities, and other enrichment programs
- Information about financial aid, scholarships, and money management
- Mentoring with peers, professors, and professionals
- Leadership training
- Professional and academic conferences
- Networking opportunities
- Career information
- MESA Counselor

For complete program information about the MESA|TRIO SSS STEM Programs, please contact us in room S205 (562)-463-3221 or visit [www.riohondo.edu/mesa](http://www.riohondo.edu/mesa). Program eligibility requirements apply.

### NextUp/Guardian Scholars Program (GSP)

NextUp/Guardian Scholars Program (GSP) provides holistic support services that meet the unique personal and academic needs of former foster youth\* at Río Hondo College to successfully transition into adulthood, obtain a degree/certificate and/or transfer to a four-year university.

\* Students who have experienced the foster care system at any age or length of time

The NextUp/Guardian Scholars Program provides the following services to eligible students:

- Priority Registration
- Counseling Services/Educational Planning
- Case Management & Advocacy
- Textbook & Emergency Funding
- Educational Supplies
- Laptop & Calculator Loans
- Academic/Life Skills Workshops/Social and Community Events/Field Trips
- On Campus Meal Vouchers
- Cap & Gown with Stole for Graduates
- Partnerships with County ILP Services/Transitional Coordinators
- Referrals to on and off campus resources
- Access to Computer & Printer on Campus

#### NextUp Requirements:

- Current or former foster youth in California whose dependency was established or continued by the court on or after the student's 13th birthday.
- Be younger than 26 years of age at the beginning of the academic school year.

For more information, please visit the NextUp/Guardian Scholars Program office located in the Student Services Building, room SS307 or call (562) 463-7472. <https://www.riohondo.edu/guardian-scholars/>

## Orientation

Orientation familiarizes and acquaints students with important college policies and expectations, as well as the range of services and programs available. The "My Online Orientation" is available via the AccessRío portal. The completion of Orientation is mandatory for all New Students. In compliance with SSI statewide regulations, New Students who do not complete an Online or In-person Orientation may have a hold placed on their registration. New and Continuing Students may access their "My Online Orientation" by logging onto AccessRío.>> Click on the My Online Orientation button.

## Pathway to Law School

Rio Hondo College Pathway to Law School, in partnership with California LAW Pathways, is for underrepresented college students interested in pursuing a career in law. This program works with California Community Colleges and various law schools in the state to help students achieve their goals. Students can major in any subject while also achieving their California LAW Pathways Certificate. The program offers the following services and resources:

- Individualized academic counseling
- Field trips and workshops hosted by various law schools
- Networking and learning opportunities with attorneys, lawyers, and judges
- Mentorship program and internship opportunities
- Membership to the Rio Hondo College Pre-Law Society
- Priority admissions review at participating law schools
- Law school application fee waivers

Please visit the Pathway to Law School web page for more information: [www.riohondo.edu/law-school/](http://www.riohondo.edu/law-school/).

## Puente Project

The Puente Project is a national-award winning program that has helped tens of thousands of educationally underrepresented students to enroll in four-year colleges and universities, earn degrees, and return to the community as leaders and mentors to future generations. Puente is a one-year program that combines instruction in English, intensive academic counseling, and mentoring. For more information, visit the Puente web page <http://www.riohondo.edu/puente/>.

## Queer Initiative

Queer Initiative (QI) Scholars is a safe space for LGBTQIA+ identifying students to seek assistance in accomplishing their academic and personal goals by receiving assistance without judgement to these identities. QI students have specialized counseling, mentoring, and social and cultural events. For more information, visit the Queer Initiative web page: <https://www.riohondo.edu/student-life/scholars-hub/queer-initiative/>

## Río Hondo College Promise (RHCP)

The Río Hondo College Promise program is an all-encompassing initiative designed to foster student success, elevate college enrollment, and enhance completion rates among community college students. By providing comprehensive support, the program aims to ensure that students not only enter college but also thrive throughout their academic journey.

One of the significant benefits of the Rio Hondo College Promise Program is the opportunity for eligible students to receive up to two years of free tuition for the fall and spring semesters. To be

considered for the tuition assistance, students must be enrolled in 12 units, unless they are part of DSPS. This financial support aims to alleviate the burden of tuition fees, enabling students to focus on their studies and achieve their educational goals.

The funding for the Rio Hondo College Promise Program is made possible through a combination of state, federal, and local funding resources. For further details and inquiries about the Rio Hondo College Promise Program, we encourage you to reach out to the Student Success Center at 562-463-6650. You can also visit the program's official website: <https://www.riohondo.edu/riopromise/> for more comprehensive information.

## RISE Scholars

The RISE Scholars Program (RISE) is an educational justice learning community for students that have been previously incarcerated, detained as youth, or directly impacted by the justice-carceral system. RISE is committed to educating and empowering formerly incarcerated students and helping them achieve their academic and career goals. We seek to cultivate a sense of belonging among RISE students by providing intentional and meaningful support, uplifting their voices, and removing barriers. RISE is here to help you throughout your academic journey! For more information, please visit us in SU-206, or email us at [risescholars@riohondo.edu](mailto:risescholars@riohondo.edu).

## Student Health and Psychological Services

Student Health and Psychological Services helps keep students physically and emotionally healthy so they can perform at their best. Professionals available include a physician, a psychologist, psychology interns, nurses, EMTs, and clerical support staff. The licensed professionals evaluate and treat minor, temporary physical and emotional conditions that require short-term care. If more intensive treatment is needed, referrals to outside resources are provided.

Health Services include:

- First Aid care for accidents and other emergencies
- Appointments with a Registered Nurse
- TB Tests
- Flu Shots
- Pregnancy Tests
- Vision Test
- Hearing Tests
- Sick room available if needed
- Over-the-counter medications for minor illnesses available in the vending machine for a nominal fee. Located on the 2nd floor, SS bldg.
- Blood pressure checks, height and weight measurement
- Blood Tests
- HIV Testing
- Resources, assessments, and referrals to low cost services in the community

Psychological Services include:

Short-term counseling for students who are struggling with issues such as family and social relationships, romantic relationships, life transitions, identity, grief, stress, trauma, anxiety, or depression. The following confidential services are available to students who are experiencing personal problems:

- Individual Counseling
- Group Counseling
- Crisis Intervention
- Stress Management
- Consultations and referrals

Student Health and Psychological Services is located in the Student Services Building, room SS230.

For more information, visit the Student Health and Psychological Services web page at [www.riohondo.edu/student-healthservices](http://www.riohondo.edu/student-healthservices).

## Student Success Center

The Student Success Center is a place to enhance the academic success of all students at Río Hondo College through a network of remote and in-person student support services. Students can meet with Counselors and Success Coaches to receive the following services:

- Development of Educational Plan
- Assistance with navigating ACCESSRIO
- Class registration assistance
- Financial Aid application assistance
- Rio Promise support
- Assistance navigating Canvas
- Workshops related to academic and personal growth

The center is located in room LR101, inside the Learning Resource Center. For more information, please call us at 562-463-6650 or visit <https://www.riohondo.edu/ssdc/>.

## Study Abroad

Students study in London, England and, during the spring, in Spain. Students enroll in classes, receive transferable general education units and can apply for financial aid and scholarships to help with the costs. Program courses and activities are geared toward taking advantage of the international location, and students gain invaluable multicultural experience by living and learning outside of the United States. For more information, visit the Study Abroad web page at <http://www.riohondo.edu/study-abroad/>.

## Transfer Center

The Transfer Center was established to strengthen the transfer function and to increase the number of Río Hondo College students prepared for transfer to baccalaureate level institutions through the coordination of the college transfer efforts. Further, the Transfer Center incorporates the identification, development, and implementation of strategies designed to enhance the transfer of diverse population including, low-income, disabled, and first-generation college students.

The Transfer Center provides up-to-date information about transferring to public, private colleges and out-of-state universities. The Transfer Center assists students, counseling faculty and staff, with the transfer process of as well as coordinates various activities, resources, and services that support the transfer process. For more information visit the Transfer Center in the Student Services Building, room SS250, call (562) 463-4619 or visit the Transfer Center web page for remote options.

## TRIO Pre-College Programs

The TRIO Pre-College Programs (Educational Talent Search & Upward Bound) services first-generation and/or low-income high school students in the El Monte, Whittier and Pico Rivera service areas. The programs are federally funded grants that are administered and implemented by the United States Department of Education. Our goal is to empower and create a college going culture by providing on site student support services at the target high schools.

## TRIO Student Support Services Program

The TRIO Student Support Services (SSS) Program serves first-generation, low-income and/or students with disabilities. Our goal is

to serve and empower TRIO SSS participants as they journey toward their goal of graduating and/or earning a certificate and/or transferring to a four-year university. As part of the TRIO SSS Program, participants receive:

- Educational counseling and advisement
- Priority Registration
- Student Success Workshops
- Transfer Counseling and Campus Visits
- Financial and Economic Literacy Workshops
- FAFSA Assistance
- TRIO Lab use with free printing

The TRIO SSS Program is located in the Student Services Building, Room SS 140. For more information, please call (562) 908-3473.

## Tutoring and Learning Support Services

Tutoring and learning support services are available free to Río Hondo College students at three locations in the Learning Resource Center (LRC) building: the Learning Assistance Center (LAC), the Writers' Resource Center (WRC), and the Mathematics & Science Center (MSEC). Tutoring is also available to students enrolled in specialized programs. For more information, visit the Tutoring web page [www.riohondo.edu/tutoring/](http://www.riohondo.edu/tutoring/).

### Learning Assistance Center (LAC)

The Learning Assistance Center located in the Learning Resource Center (LRC) building, room LR118, provides one-on-one tutoring, organized study groups, and workshops to assist students in reviewing and reinforcing course-related concepts through a variety of instructional aids and materials. LAC services are available to all Río Hondo College students at no charge. Students may schedule tutoring appointments or study group sessions at the LAC desk. Students may schedule tutoring appointments or study group sessions at the LAC desk. Hours are listed on the LAC web page: <http://www.riohondo.edu/communications-and-languages/labs/learning-assistance-center-lac/>.

### Math, Science, and Engineering Center (MSEC)

The Math, Science, and Engineering Center located in the Learning Resource Center (LRC) Building, room LR114, provides free math, science, and engineering tutoring for all Río Hondo College students. Other resources available to MSEC students include computers, mathematics interactive software, and multi-media study aids. An assigned instructor, instructional assistants and tutors are available to assist students. Hours are listed on the MSC web page: <http://www.riohondo.edu/mathematics-and-sciences/math-science-center/>.

### Writers' Resource Center (WRC)

The Writers' Resource Center is located in the Learning Resource Center (LRC) building, room LR118, and is open to any Río Hondo student who needs instructional assistance in English. Activities include specialized English tutoring, workshops, and one-on-one writing assistance from an English instructor for any subject. For more information, visit the WRC webpage: <https://www.riohondo.edu/communications-and-languages/writers-resourcecenter/>.

## Upward Bound Program (UB)

UB prepares eligible high school students attending El Monte, South El Monte and Mountain View High Schools to be able to apply and attend college. The program provides:

- Educational counseling and advisement
- College and financial aid application assistance
- Tutoring
- College Tours and Cultural Field Trips



- Academic & Student Success Enrichment Workshops
- Dual Enrollment Student Support Services
- 6 - week summer program focused on academic enrichment and Dual Enrollment

The TRIO Pre-College Programs are located at the Rio Hondo College: El Monte Educational Center, 3017 Tyler Ave., El Monte, CA 91731. For more information, please call (626) 443-8932.

## Veterans Services

Veterans and Veteran Dependents are encouraged to take advantage of the counseling services and educational programs offered by Rio Hondo College. The Veterans Service Center (VSC) is a one-stop center that offers veteran's counseling, certifications, financial aid advising, tutoring, and other valuable resources. Rio Hondo College cooperates with the Veterans Administration and with the California State Bureau of Vocational Rehabilitation in helping veterans and their dependents to obtain the education necessary to realize their academic and vocational goals. Rio Hondo College has been approved for the training of veterans and eligible dependents. Veterans and dependents are required to comply with Veteran Regulations Sections 21.4135, 21.4235 and 21.4277 in regard to required attendance and progress that the student-veteran or dependent must meet in order to receive educational benefits under Title 38, United States Code.

The Veterans Administration requires all entering students to be formally evaluated in writing for possible award of credit for previous training and experience. This applies to all students, full-time and part-time, degree and nondegree candidates. To prevent possible future interruption of educational benefits, it is essential that an official copy of all previous coursework (college or service) be on file at Rio Hondo College Admissions & Records office and in the Rio Hondo College Veterans Service Center located on the first floor of the Student Services Building.

Satisfactory academic progress of veterans or eligible dependents is measured by the successful completion of the number of units

enrolled. Non-punitive grades (W NP or NC) are not considered making satisfactory progress. Benefits will be retroactively terminated effective the first day of the semester for any non-punitive grade received. If the veteran submits to the VA mitigating circumstances, overpayments may or may not be waived. Should a veteran fail to make satisfactory progress for two semesters, cumulative GPA of 2.0 or better, benefits will be terminated. The veteran must contact the RHC Veterans Service Center to set up an appointment for his/her case to be reviewed by a Veterans counselor. The Veterans counselor will recommend a suitable course of study. Upon satisfactory completion of one semester of approved courses, where the cumulative GPA reaches a minimum of a 2.0, benefits will be reinstated.

The veteran or dependent has the responsibility to adhere to these standards of attendance and progress and to notify the Rio Hondo College Veterans Service Center of any change in status that would affect the collecting of veteran's benefits. Monthly attendance reporting is required of veterans and dependents. Additions, drops, withdrawals and last day of attendance **MUST BE REPORTED AT ONCE**.

Please visit the Rio Hondo College Veterans Service Center, in the Student Services Building, Rm SS150 for details and application forms. Information is also available on the Rio Hondo College Veterans Service Center web page.

## Weekend College

The Weekend College is designed for working adults who wish to take classes towards a degree, transfer, or personal enrichment and improvement. Friday, Saturday, and occasional Sunday classes are scheduled each semester. Refer to the online Class Schedule for further information.

The Evening and Weekend College Office is located in the Administration Building, room A117 and by phone at (562) 908-3437.

# 5 Student Life & Leadership

## How to Get Involved In Campus Activities

Getting involved in activities at the college enriches the college experience for students. Río Hondo College has a variety of ways in which a student may get involved, including student government, athletics, and clubs.

## Student Government

The Associated Students of Río Hondo College (ASRHC) is a self-sustaining student government organization. The ASRHC officers serve as student representatives at campuswide committees, impacting decision-making that will ultimately enhance the student experience at RHC.

## Student Clubs

Students may pursue a special interest through participation in one of the campus clubs or organizations. Those who choose to participate in this aspect of college life may derive valuable social and educational experiences. Each club has individual service projects and traditions, and is sponsored by one or more members of the permanent faculty or staff. Contact the Student Life & Leadership Department at (562) 908-3427 for more information.

## ASRHC Sponsored Events

The Associated Students of Río Hondo College sponsors a variety of activities that fall within the Student Life and Leadership Guiding Values: Student Success and Degree Completion, Cultural Diversity, Social Responsibility, and Leadership Development. The ASRHC collaborates with various campus departments and clubs to ensure that events and activities reach all students across campus.

## Student Leadership Institute

The Student Leadership Institute (SLI) at Río Hondo College is a leadership program where students who participate acquire and develop the skills and awareness necessary to become an effective leader on campus, in the community, and in their future career. They learn the value of networking, gain effective communication skills, enhance their confidence, define their leadership style, and engage in co-curricular activities that augment their academic learning. Students who successfully complete the program earn a leadership certificate, a very marketable tool on a resume and on transfer applications. Contact the Student Life & Leadership Department at (562) 908-3427 for more information.

## College Services Fee

When a student enrolls in the college they pay a college service fee. This fee entitles students to the following:

- ASRHC Emergency Loans
- Access to the Library Textbook Reserve
- Free photo I.D. Card for first I.D. only. (Additional or replacement I.D.'s cost \$5.00 each.)
- Various campus activities and events
- Free admission to some athletic events and theatre productions
- Discount tickets to AMC Theaters, some amusement parks and more!

- Membership in campus clubs and organizations
- Opportunities to be elected to student senate.

## Student Media

El Paisano Media provides training opportunities for journalism, media, communications, public relations, film, radio, and television broadcasting students with theory and hands-on production skills. El Paisano Media consists of El Paisano Newspaper-both print and digital- La Cima Magazine, Rio Round-Up, broadcasting/podcasting, and its film component. El Paisano newspaper is a weekly student-produced award-winning publication that has attained Congressional recognition for its excellence in print, digital, radio, and television broadcast journalism. La Cima is the college's magazine that is produced every summer. Students interested can view student work at the following feeds:

Website: [www.elpaisanoonline.com](http://www.elpaisanoonline.com)

Instagram: @elpaimedia

Twitter: @elpaisanonews

Tik Tok: @elpaimedia

YouTube: @elpaisanobroadcast

Spotify: @elpaisanomedianetwork

Don't hesitate to get in touch with us at:

[elpaisano@riohondo.edu](mailto:elpaisano@riohondo.edu)

## Athletics – Men's & Women's Intercollegiate Sports

Río Hondo College is a member of an athletic conference formed by the California Community College Athletic Association (CCCCAA).

Conference competition is scheduled in the following sports for men: baseball, basketball, water polo, swimming and diving, soccer and wrestling; and for women: soccer, softball, basketball, beach volleyball, volleyball, tennis, water polo, and swimming and diving.

Male or female students who wish to become members of a team should check the class schedule online at: [www.riohondo.edu](http://www.riohondo.edu) for the current offerings for both men and women's intercollegiate athletic teams; contact the coach of that team in the Athletic Department for details; and enroll in that class during registration. Prior to registration, students should see the Athletic Academic Counselor. Appointments can be made by contacting the Athletic Department at (562) 908-3409. Additional information is also available on the Athletics web page.

## Athletic Eligibility for California Community College Intercollegiate Teams

Male and female students may represent the college in athletic contests upon verification of their status as amateur athletes in the sports in which they wish to compete. In order to be eligible to participate, a student athlete MUST be continuously/actively be enrolled in a minimum of 12 units at his/her community college during the competition in the sport. Of the 12 units, 9 must be in academic subjects, and 3 units may be Kinesiology activity courses.

**Current Returning Student Athletes:**

To be eligible for the second season of a sport, the student athlete MUST COMPLETE and PASS 24 SEMESTER UNITS AT A MINIMUM GPA OF 2.0 BETWEEN SEASONS OF COMPETITION. Of these units, 18 must be in academic classes and 6 units may be Kinesiology activity courses. These units must be completed PRIOR to the beginning of the semester of the second season of sport. Units completed and passed during the first season of sport shall be included in the calculation of the 24-semester unit requirement.

**Entering Freshman beginning Fall of 2015:**

**ACADEMIC ELIGIBILITY:** In order to be eligible and remain eligible to represent an institution in intercollegiate athletics competition a student athlete has to successfully complete at least 6 units (semester or quarter) during the preceding academic term in which the student is enrolled as a full-time student at the certifying institution with a cumulative 2.0 GPA beginning with and including the units taken during the first semester/quarter of competition. Institutional verification for eligibility for continuing competition will be completed within one week of the posting of grades for the academic term by the institution.

A student transferring to Río Hondo College who has previously PARTICIPATED in intercollegiate athletics at another California community college MUST COMPLETE 12 units at Río Hondo College PRIOR to the beginning of the semester of competition.

Students are NOT ALLOWED more than TWO SEASONS of athletic competition in any one sport. Students who have questions concerning athletic eligibility should check with the Athletic Director by calling the Kinesiology, Dance, and Athletics Department at (562) 908-3409. All student athletes are expected to comply with the Decorum policy in the State Constitution for Athletics.

**Student Conduct at College-Sponsored Events****A. Basic Responsibilities at Conferences:**

1. Participants, students and advisors shall be fully informed concerning their responsibilities for proper conduct during a trip and at the conference.
2. Students will be directly responsible to the advisor.
3. Rules established by the host school on location must be observed.

4. Prior to the conference, student participants and advisors shall read the code of conduct.
5. Attendance at all meetings including meals is considered part of the participant's responsibility while at a conference unless first excused by the advisors.
6. Students may not represent Río Hondo College at any event away from the campus without an advisor unless they are given special permission to do so by the college administration.

**B. Regulation of Conduct**

1. It is contrary to California State Law to possess, serve, or consume alcoholic beverages or marijuana at any college function including regional or state conferences, regardless of the age of those participating. Anyone who appears under the influence of alcoholic beverages or marijuana shall be subject to disciplinary action by the conference and Río Hondo College.
2. All participants at conferences or on trips are expected to show proper consideration for the rights and welfare of others. Undue noise and disturbances shall be considered violations of this regulation.
3. No firearms will be permitted on any trip. Collegeapproved pistol and rifle matches are excepted.

**C. Social Functions**

1. The college must sponsor any club or organization recruiting Río Hondo College students.
2. All social functions on campus must be cleared through the Student Life and Leadership Department.
3. Students attending social functions on campus are under the jurisdiction of the college and must assume individual responsibility for the accepted standards of behavior.
4. Guests of Río Hondo College students shall be the responsibility of the student. Guests are expected to behave as students and, as such, abide by college regulations.
5. Students shall be responsible for all property damage incurred by guests during any activity sponsored on campus.



# 6 Academic Guidelines

## Attendance/Absences

**It is the students' responsibility to officially register for a course prior to the "last day to add" deadline. It is also the students' responsibility to withdraw from a course prior to the drop deadlines to ensure their record is clear.**

All registered students should be present at the first meeting of the class unless other arrangements have been made with the instructor, prior to the first class meeting. The instructor may drop students who are not present by the end of the first class. However, **it is the students' responsibility to officially drop any class that they no longer wish to attend** to ensure their record is clear.

Students are expected to attend all meetings of each course in which they are enrolled. The instructor of each class determines the attendance policy. After an absence, it is the responsibility of the student to check with their instructor to obtain missed materials or information on completion of all missed assignments.

## Academic Dishonesty

Academic dishonesty is defined as cheating, plagiarism, or obtaining or attempting to obtain credit for work by the use of any dishonest, deceptive, fraudulent, or unauthorized means or helping someone else to commit an act of academic dishonesty.

## Definition of Cheating

Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive, fraudulent, or unauthorized means. Helping someone commit an act of academic dishonesty is also considered cheating. The following are only some of the many forms cheating may take:

- Copying another's work on an exam, paper, or project; any behavior that defeats the intent of an exam
- Possessing or using unauthorized materials during an exam; or collaborating on a project, homework, or other assignment to be turned in for credit where the instructor expressly forbids such collaboration
- Communicating with fellow students during an exam, taking an exam for another student, purposely allowing another student to copy during an exam, or providing coursework for another student to turn in as his or her own effort
- Fabricating, falsifying or misrepresenting data or results from experiments, interviews, or surveys
- Submitting the same work in more than one class for credit without permission from the instructor
- Knowingly furnishing false information to the college including forgery, altering of campus documents or records, tampering with grading procedures, fabricating lab assignments, or altering medical excuses

## Definition of Plagiarism

Plagiarism is defined as representing the words, ideas, or work of another as one's own in any academic exercise. Plagiarism consists of taking the words or substance of another work and either copying or paraphrasing without giving credit to the source whether

that material is paraphrased or copied verbatim or near verbatim form. Plagiarism is applicable to written, oral, and artistic work. The following examples are only some of the many forms plagiarism may take:

- Word-for-word copying of work written by someone else
- Failure to give proper credit for ideas, statements of facts, or conclusions derived by another, including undocumented web source usage
- Failure to use quotation marks when quoting directly from another, whether a paragraph, sentence, or phrase
- Close and extended paraphrasing of another work without acknowledging the source
- Submitting a paper purchased from a research or term paper service, including the internet

## Other Specific Examples of Academic Dishonesty

- Purposely allowing another student to copy from your paper during a test
- Giving homework, term paper or other academic work to another student to plagiarize
- Having another person submit any work in your name
- Lying to an instructor or college official to improve your grade
- Altering graded work after it has been returned, then submitting the work for re-grading
- Stealing tests
- Forging signatures on college documents altering campus documents or records, tampering with grading procedures, fabricating assignments, or altering medical excuses
- Collaboration without permission of instructor
- Gaining unlawful or unauthorized access to college or district computers or servers

## Academic Dishonesty and its Consequences

- Faculty members have the right to choose whether or not to pursue suspected cases of plagiarism and cheating.
- When addressing plagiarism or cheating with reasonable evidence, the faculty member should meet with the student to discuss the concern. The student shall have the opportunity to share their side of the story and explain their behavior.
- Faculty members may consult with their Division Dean or Dean of Student Affairs when determining whether academic dishonesty has occurred.
- In situations where cheating or plagiarism has occurred, the faculty member is to determine the academic consequence in compliance with Education Code, and board policy and procedures, which prohibit dropping a student from a course for engaging in academic dishonesty. Faculty members shall inform students of the grade penalty that will be assessed. The consequences may be any of the following options:
  - Receiving a "0" on that assignment
  - Being referred to the Dean of Student Affairs for further disciplinary action
- In situations where academic dishonesty has occurred, the faculty should also notify their Division Dean, and report the

violation to the Dean of Student Affairs. All pertinent information such as exams, plagiarized sources, and/or other possible evidence should be attached and submitted with the form.

- Students will meet with the Dean of Student Affairs and receive due process; students have the right to grieve an action they feel violates their student rights.
- The Dean of Student Affairs will address the behavior reasonably through the procedures outlined in AP 5520.
- The Student Affairs Office will maintain records related to violations of academic dishonesty and other violations of the college Standards of Conduct policy.

## Academic Honors

**Dean's List** – Dean's List certificates are awarded in the fall and spring semesters to all students whose semester gradepoint average is 3.5 or higher in 12 or more graded units completed.

**Alpha Gamma Sigma** – Alpha Gamma Sigma (AGS) is the California Community College Scholastic Honor Society. The purpose of this organization is to foster, promote, maintain, and recognize scholarship while engaging the students in service to the college and community.

Any student completing 12 semester units of recognized college work in a maximum of 2 semesters with a minimum grade-point average of 3.0 may join AGS.

**Honors Transfer Program/Honors Scholar** – Honors Scholars are students who have completed the requirements for the Honors Transfer Program. Those include the completion of required lower division general education and major prerequisite transfer requirements, have achieved a transferable grade-point average of 3.2 or above. All honors courses have an "H" designation. Please see Chapter 4 of the catalog for more program information.

## Academic Standards

**Units** – The conventional unit of measurement of college work is called the semester hour or unit of credit. A unit consists of 18 lecture hours of class time per semester (together with 36 hours of study outside of class per semester). Laboratory work is ordinarily valued at one unit for 54 hours of class time per semester. Twelve units or more is considered a full-time load. No student will be permitted to carry more than 18 units without special permission of a counselor. In the case of probationary students, the maximum load is 12 units.

**Grades and Grade Changes** – The instructor of the course shall determine the grade to be recorded for each student. The determination of the student's grade by the instructor is final in the absence of mistake, fraud, bad faith, or incompetence. The removal or change of an incorrect grade from a student's record shall only be done upon authorization by the instructor of the course. A student has one year from the end of the term in question to request a grade change. In the case of fraud, bad faith, clerical error, incompetence, or unavailability of instructor or death of instructor, the final determination concerning removal or change of grade will be made by the Vice President of Academic Affairs with the appropriate involvement of faculty from the discipline and the Academic Senate. All returned work must be retained by the student as documented evidence in order to pursue a request for a grade change. (RHC AP 4231)

Grades from a grading scale shall be averaged on the basis of the point equivalencies to determine a student's gradepoint average (GPA). The highest grade shall receive four points, and the lowest grade shall receive 0 points, using only the following evaluative symbols:

Symbol	Definition	Credit Granted	Grade Point
A	Excellent	Yes	4
B	Above Average	Yes	3
C	Average	Yes	2
D	Below Average	Yes	1
F	Failure	No	0

To calculate a grade point average (GPA), divide the total grade points by the total GPA units.

**The following evaluative symbols are not used in calculating GPA:**

Symbol	Definition	Credit Granted
P	Pass (satisfactory)	Yes
NP	No Pass (less than satisfactory)	No
SP	Satisfactory Progress (SP is used for noncredit courses only.)	No

**The following non-evaluative symbols are used to indicate course status:**

Symbol	Definition
I*	Incomplete (* indicates the default letter grade to be received by the student if the incomplete is not completed within one year)
IPP	Incomplete Pass
INP	Incomplete No Pass
IP	In Progress
RD	Report Delayed
W	Withdrawal
MW	Military Withdrawal
EW	Excused Withdrawal

### P/NP: Pass/No Pass

In addition to courses in which all students are evaluated on a Pass/No Pass basis, students may enroll in one course each semester on a "P/NP" basis. Unless otherwise specified, a student may elect at registration through the last day of instruction (the last day of finals week), whether the basis of evaluation is to be "P/NP" or a letter grade. A "P" (Pass) is defined as "C" grade or better. If a course is taken as P/NP, it is not factored into the GPA, but credit is awarded when a P is earned.

All units (credits) earned on a Pass/No Pass basis in U.S. regionally accredited institutions of higher education shall be counted in satisfaction of community college curriculum requirements.

**IMPORTANT:** Students will not be allowed to request a letter grade after the dates listed on the RHC website ([www.riohondo.edu/admissions/important-dates-and-deadlines](http://www.riohondo.edu/admissions/important-dates-and-deadlines)); nor to request a letter grade for previously completed courses in which they earned a Pass "P."

**I : Incomplete – An incomplete grade, "I," may be assigned for academic work** not completed for unforeseeable emergencies and justifiable reasons at the end of the term. The condition for

removal of the "I" shall be stated by the instructor in a written record. This record shall contain the conditions for removal of the "I" and the grade assigned in lieu of its removal (**IA, IB, IC, ID, IF, IPP, INP**). This record must be given to the student with a copy on file with the registrar until the "I" is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated or when the time limit for completing the work has passed.

The "I" may be made up no later than one year following the end of the term in which it was assigned. Under unusual circumstances, a student may petition for an extension of the one-year period.

**IP: In Progress** – An in-progress grade, "IP," shall be used to denote that the class extends beyond the normal end of an academic term. It indicates that work is in progress but that assignment of a substantive grade must await completion of the course. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit of credit shall be assigned and appear on the student's record for the term in which the course is completed.

**RD: Report Delayed** – The report delayed grade, "RD," may be assigned by the registrar only. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible.

**W: Withdrawal** – A withdrawal or drop between 20% and 60% of the term courses length will result in a "W" notation on a student's permanent record. See section 3 for specific withdrawal information.

**MW: Military Withdrawal** – A military withdrawal grade, "MW," occurs when a student who is a member of an active or reserve United States Military Service receives orders compelling a withdrawal from courses and petitions to receive a "MW." See section 3 for specific military withdrawal information.

**EW: Excused Withdrawal** – The EW symbol is used to denote withdrawal in accordance with Title 5 Section 55024. A student may submit a petition to withdraw from a course(s) due to specific events beyond their control which affects their ability to complete a course(s). These events may include a job transfer outside the geographical region, an illness in the family where the student is primary caregiver, student is subject to immigration action, or other extenuating circumstances. The excused withdrawal "EW" notation is not counted in progress probation and dismissal calculations, nor will it be counted toward the permitted number of withdrawals or counted as an enrollment attempt.

**Grade Report** – Grades will be issued at the end of each session.

### **Auditing**

Students are not permitted to audit courses and may not attend classes in which they are not officially enrolled.

### **Basic Skills Enrollment**

The California Education Code limits students to no more than 30 semester units of pre-collegiate basic skills units. Basic skills courses are defined as courses "in reading, writing, computation, and English As A New Language which are designated by the community college district as non-degree credit courses pursuant to Section 55002(d) of Title 5."

Río Hondo College defines basic skill courses as courses in reading, writing, computation and English As A New Language with a course number less than 40. ENLA and learning disabled students are exempted. Students who feel they would benefit by taking more than 30 semester units of pre-collegiate basic skills courses should see the Director of Admissions & Records.

## **Classification of Students**

**Freshman:** 0 to 29 units completed

**Sophomore:** 30 to 59 units completed

**Full-time:** Students enrolled for 12 or more units in fall and spring (4 or more units in summer)

**Part-time:** Students enrolled for less than 12 units in fall and spring (less than 4 units in summer).

**Challenge of Educational Records** – Education Code 76232 allows a student to challenge the contents of a student's educational record to correct or remove information that the student alleges to be: (1) inaccurate; (2) an unsubstantiated personal conclusion or inference; (3) a conclusion or inference outside the observer's area of competence; or (4) not based on the personal observation of a named person with the time and place of the observation. See the Director of Admissions & Records for more information.

**Academic Renewal Guidelines – The academic renewal procedure permits the alleviation** of a student's previously recorded substandard academic performance that is not reflective of a student's present demonstrated ability and level of performance. Academic renewal may gain for students the benefits of their current level of ability and performance and not permanently penalize them for poor performance in the past. Therefore, within the regulations listed, Río Hondo College may disregard particular, previously recorded substandard work from a student's cumulative grade-point average.

1. The student may petition through the Admissions and Records Office to remove previous substandard work (any course in which a grade below 2.00 has been recorded) taken at Río Hondo College. The district superintendent or designee may grant permission.
2. Up to 30 units may be alleviated.
3. A student's current demonstrated ability may be the basis for alleviating previous substandard work.
4. In order to qualify, the student must meet one of the following criteria:
  - a. Earn 30 consecutive units with a minimum of a 2.0 grade-point average (GPA) from any regionally accredited college or university, following the completion of the most recent substandard work to be alleviated, and two (2) years must have elapsed since the most recent work to be alleviated.
  - b. Earn 15 consecutive units with a minimum of a 2.5 grade-point average (GPA) from any regionally accredited college or university, following the completion of the most recent substandard work to be alleviated, and one (1) year must have elapsed since the most work to be alleviated.
5. The student's academic record will be appropriately marked indicating those courses that have been alleviated.

When academic work is alleviated, grades are not removed; they are noted and subtracted from the grade point average. All entries remain legible so that a true and complete record is maintained. There is no assurance that alleviated courses will be treated similarly by other educational institutions outside the district.

### **Final Examinations**

Final examinations will be given in all courses during the last week of each semester. The final exam schedule for spring and fall is listed on the RHC website ([www.outcomes.riohondo.edu](http://www.outcomes.riohondo.edu)) and may vary from regular class hours.

## Course-Level/Student Learning Outcomes (CLOs/SLOs) and Program Level Outcomes (PLOs)

Course-level or student learning outcomes (CLOs/SLOs), and program-level outcomes (PLOs) are developed by faculty and assessed on a cyclical basis in order to improve teaching and student learning. All course-level outcomes are listed in course syllabi so students are aware of them at the beginning of each term. PLOs for all degrees and certificates are available in Chapter 11. The Outcomes Committee meets monthly to review all matters relating to instructional outcomes. The Committee also oversees institutional-level outcomes. More information about outcomes can be found at <https://outcomes.riohondo.edu/>

## Probation Standards

**Disciplinary Probation** - A student may be placed on disciplinary probation for infraction of state law, education code, board policy, student government regulations, or behavior unbecoming a student at Rio Hondo College.

Students on disciplinary probation may not represent the college in any activity, conference, or field trip, nor can they hold office in the Associated Student government or in any student body sponsored club.

**Academic Probation** - A student who has attempted at least 12 semester units as shown by the official academic record shall be placed on academic probation if the student has earned a grade-point average below 2.0 in all units which were graded on the basis of the grading scale described in the section Academic Standards-Grades. If a student is placed on academic probation for two consecutive semesters, the student must receive approval by a counselor prior to registering for classes in the following semester.

**Removal from Academic Probation** - A student on academic probation for a grade-point deficiency shall be removed from probation when the student's accumulated grade-point average is 2.0 or higher.

**Progress Probation** - A student who has enrolled in a total of at least 12 semester units as shown by the official academic record shall be placed on progress probation when the number of all units in which a student has enrolled and for which entries of "W" and "NP" are recorded reaches or exceeds the number of units with other grades. If a student is placed on progress probation, the student must receive approval by a counselor prior to registering for classes in the following semester.

A student on progress probation because of an excess of units for which entries of "W" and "NP" are recorded shall be removed from probation when the total number of units in this category drops below the number of those with other grades.

**Dismissal** - A student shall be dismissed from the college for a period of one semester (excluding summer session) when his/her grade-point average in three consecutive semesters is less than 2.00 in all units attempted or when 50% or more of all units attempted have entries of "W" and "NP." Before reinstatement to the college, the student must meet with a counselor.

**Notice** - Students will be notified by e-mail if they are on academic probation or progress probation and will also be notified that they need to meet with a counselor prior to reinstatement to the college. Probation and dismissal status may be appealed to the Dean of Counseling.

## Repetition of Courses Guidelines

Course repetition occurs when a student who has previously received an evaluative symbol (A, B, C, D, F, P/NP, W) in a credit

course, re-enrolls in the course and receives an evaluative symbol. Students may be permitted to enroll more than one time in the same credit course if they or the course meets certain criteria. Students will not be permitted to enroll in the same credit course more than three times, except in special circumstances or when the course is designated as repeatable and allows a greater number of repetitions as established in Title 5. All attempts to take a course that result in the student earning an evaluative symbol (A, B, C, D, F, P/NP, W) on their record will be counted for the purposes of calculating the total number of times a student has enrolled in a course. Students are limited to four (4) enrollments in courses that are related in content for the following courses types: Physical education courses, visual arts courses, performing arts courses, and intercollegiate academic and vocational courses designated as repeatable pursuant to section 55041.

### Course repetition may occur under the following circumstances:

**I. The course is designated as a "repeatable course" consistent with the requirements of Title 5 §55041:** Courses that may be repeated without a petition are identified as such in the college catalog and fall within the following categories:

- The course repetition is necessary to meet the major requirements of CSU or UC for completion of a bachelor's degree.
- The course is designated as intercollegiate athletics.
- The course is designated as intercollegiate academic or vocational competition.

**II. To alleviate substandard work:** A course in which a student grade of "D" or "F" or "NP" has been recorded may be repeated twice. Students must complete a "Petition for Grade Alleviation With Course Repetition" form available in Admissions and Records in order to remove the effects of the grade from the GPA. When a student repeats a class to alleviate substandard academic work, the previous grade and credit shall remain legible, however, it will be disregarded in the computation of grade point averages. Students may use coursework from any U.S. regionally accredited college to replace Río Hondo College coursework in which a "D" or "F" or "NP" was recorded provided the courses are deemed comparable.

**III. To enroll in a class from which a student has previously withdrawn:** Students may repeat courses that result in withdrawal with a "W" symbol being assigned. Students may have a maximum of two withdrawals from a course prior to receiving a grade, excluding military withdrawals and withdrawals due to extenuating circumstances. The "W" shall not be used in calculating a student's GPA, but must be used in determining probation and dismissal.

### IV. Student meets the criteria for special circumstances:

- Extenuating circumstances:** A student may repeat a course when they demonstrate that the previous grade was due to extenuating circumstances. Extenuating circumstances are verified cases of illness, accidents or other circumstances beyond the control of the student. Students wishing to repeat a course due to extenuating circumstances must complete a "Course Repetition" form available in Admissions and Records and submit it with documentation of the extenuating circumstances and appropriate signatures and approvals to Admissions and Records. A course repeated due to extenuating circumstances may only be repeated once, but the previous grade and credit may be disregarded in computing the student's GPA.
- Significant lapse of time:** Students may repeat a course in which they previously received a satisfactory grade due to a significant lapse of time, comprised of no less than 36 months or as required by specific program mandates AND the course is



required by the district as a properly established recency prerequisite; or another institution of higher education to which the student is seeking to transfer requires the student to have taken the course more recently than the student's last enrollment.

- c. **Variable unit, open-entry/open-exit courses:** Student may enroll in a variable unit open-entry/ open-exit course as many times as necessary to complete the entire curriculum of the course.
- d. **Occupational Work Experience:** Students may petition to enroll more than once, even if the student received a satisfactory grade, in an occupational work experience course. Enrollment is limited to 16 credit hours of cooperative work experience (CWE) and/or general work experience (GWE) in a given field during the enrollment period. (§55040)
- e. **Legally mandated training:** Students may re-enroll in courses that are required by statute or regulation as a condition of paid or volunteer employment. Students must certify or document that the course repetition is legally mandated.
- f. **Special courses for student with disabilities:** Students with a disability and part of the Disabled Students Programs & Services (DSPS) department may enroll multiple times in a class designated as "Educational Development (EDEV)," if it is determined by a DSPS counselor/specialist that such repetition is required for that student as a disability related accommodation.
- g. **Significant change in industry or licensure standards:** Students may petition to repeat a course as a result of a significant change in industry or licensure standards such that repetition of the course is necessary for employment or licensure. Students must certify or document that there has been a significant change in industry or licensure standards necessitating course repetition.

A student's permanent academic record will indicate any courses repeated using an appropriate symbol and will be annotated in such a manner that all work remains legible, ensuring a true and complete academic history.

## Transcripts

Upon written application, the Admissions and Records Office will issue a document verifying grades or enrollment. The first two copies requested are issued free. Thereafter, a fee of \$3.00 for each record is charged. Forms are available in the Admissions and Records Office or online.

Transcripts may also be ordered online via AccessRío or directly on the Credentials website. Transcripts will usually be processed within three (3) working days. An emergency/ rush transcript request is available online for an additional cost. Rush order will be processed within one (1) working day. Details are provided on the Admissions and Records web page.

## Work Hours/Class Guidelines

For each hour spent in a lecture class, a student should plan to spend about two hours a week in study and homework. Thus, a load of 15 units plus study time may require 45 hours a week—more than a full-time work week. Following are suggested work hours versus class load guidelines:

Working Hours/Week	Units
None	12-16
10	10-11
20	7-9
30	3-6

Working Hours/Week	Units
30+	1-3

### In order to maintain an academic balance, the following information should be considered:

1. Students can expect to spend at least three hours (one in class and two outside of class) each week for every unit taken. A student with 12 units will need 24 hours of study time for a total of 36 hours needed for school each week.
2. Employment time and college time combined should not exceed 60 hours weekly.
3. Students should distribute study time appropriately for each class; often preparation for a lecture class differs from preparation for a laboratory class.
4. Students should consult frequently with their instructors; their office hours are designed for that purpose.
5. To assist in their academic success, students should use the tutoring services, the library, counselors, and other support services.

## Credit for Prior Learning

The Río Hondo Community College District shall grant appropriate semester unit credit to any student through any of the approved alternative methods for awarding credit listed below:

- Achievement of a satisfactory score on an Advanced Placement (AP) examination
- Achievement of a satisfactory score on a high-level International Baccalaureate (IB) examination
- Achievement of a satisfactory score on the College Level Examination Program (CLEP)
- Evaluation of military service/training
- Achievement of a satisfactory score on an examination administered by other agencies approved by the District
- Evaluation of industry recognized credential documentation
- Evaluation of student-created portfolios
- Satisfactory completion of an institutional examination, known as Credit by Examination, administered by the College in lieu of completion of an active course listed in the current College catalog.

Individual departments and/or specialty areas may elect to grant course credit to enable students, who can demonstrate proficiency in bodies of subject matter, to plan a relevant educational program that will exclude courses in which essential levels of mastery of subject matter material in accordance with policies and procedures approved by the curriculum committee have been previously attained.

### Eligibility for Credit for Prior Learning

To challenge a course and receive credit for prior learning:

- The student must be registered in the College and be in good standing.
- The course(s) must be listed in the College catalog.
- The student must have an education plan on file.
- The student must have previously earned credit or noncredit from the College or be currently enrolled in a class at the College.

Students may be exempt from this if they are requesting to challenge and receive credit by assessment for a high school / Regional Occupational Program (ROP) and Career Technical Education (CTE) articulated pathway. Students may not be enrolled



in the course for which they may want to challenge and receive credit for prior learning; students may receive credit by completing courses in high school ROP, CTE, and articulated programs. For Credit by Examination, the student cannot be currently enrolled in nor have received credit for a more advanced course in the same subject (may be waived by department). Credits acquired using the methods in the section above are not applicable to meeting of such unit load requirements as Selective Service deferment, Veterans, or Social Security benefits. Credits acquired using the methods in the section above shall not be counted in determining the 12 semester hours of credit in residence required for a degree.

#### **Credit for Prior Learning Grading Policy**

Grading shall be according to the regular grading system in accordance with Administrative Procedure 4230 – Grading and Academic Record Symbols. Students shall be offered a “Pass/No Pass” grading option, if that option is ordinarily available for the course. Students shall be given the opportunity to accept, decline, or appeal the grade assigned by the faculty, except in cases of Credit by Examination, pursuant to AP 4230 – Grading and Academic Record Symbols and AP 4231 – Grade Changes.

#### **Limits on Credit by Examination**

Students shall be given course credit to a limit of twelve Río Hondo College units upon the successful completion of assessment(s), which may be applied to an Associate degree. Once the student has completed an upper division course at Río Hondo College, the student is eligible for an additional four units of course credit through credit by assessment. These courses shall not count as units in residence. Upon completion of six upper division units at Río Hondo College, students shall be given course credit to a limit of twelve upper division Río Hondo College units upon the successful completion of assessment(s), which may be applied to a Bachelor’s degree. These courses shall not count as units in residence.

Each department identifies courses that are eligible for challenge. Students will receive a grade for each course challenged based on the written guidelines developed by the individual department. To challenge a course and receive Credit by Examination, a student must be registered in the college and be in good standing. Course(s) must be listed in the college catalog. A request form must be completed and returned to the Admissions and Records Office.

After completing twelve units in residence, a student will be awarded credit by external assessment with passing scores from the CLEP, IB, and AP assessments. Specific course credit and/or general education credit will be granted toward the Associate degree and/ or transfer. Details on scores and how credit is applied can be found in the Río Hondo College catalog. Official score reports from AP, IB, and CLEP must be on file with Admissions and Records.

#### **Academic Records**

The student’s academic record will clearly indicate that the credit(s) have been earned by assessment of prior learning.

#### **Credit for Military Service/Training**

Students interested in Credit for Prior Learning using Joint Services Transcripts (JST) shall receive credit as recommended by the American Council on Education (ACE) Directory and approved by the appropriate discipline faculty of the College under the following circumstances:

- The student shall complete the Credit for Prior Learning petition.
- Official transcripts must be on file with Admissions and Records. These may include JST, DANTES/ USAFI, Defense Language Institute Foreign Language Transcripts (DLIFLC), Defense Manpower Data Center (DMDC), DLPT Examinee

Results, DA Form 330 – Language Proficiency Questionnaire, or verified copies of DD214 or DD295 military records.

- Credit course equivalency shall be determined by the faculty of the appropriate discipline.

#### **Industry Recognized Credential(s)**

Students interested in credit for prior learning using industry recognized credential(s) shall receive credit as recommended by the appropriate discipline faculty of the College under the following circumstances:

- The student shall complete the Credit for Prior Learning petition.
- Admissions and Records shall grant credit for industry recognized credential(s) that have been evaluated and approved by the appropriate discipline faculty.
- If an industry recognized credential(s) has not yet been evaluated and approved by the appropriate discipline faculty, the student meets with the discipline faculty member to receive further instructions for how the industry recognized credential(s) will be assessed.
- The student submits all industry recognized credential(s) documents to the discipline faculty member for assessment of prior learning.
- If the discipline faculty member determines that the industry certification adequately measures mastery of the course content as set forth in the Course Outline of Record, the discipline faculty shall sign the petition with the recorded grade, attach the industry recognized credential(s), and forward the completed petition and supporting documents to Admissions and Records to be kept on file and recorded on the student transcript.

#### **Student-Created Portfolio Assessment**

Students interested in credit for prior learning using a student-created portfolio shall receive credit as recommended by the discipline faculty under the following circumstances:

- A department-approved portfolio assessment rubric for the course is on file.
- The student shall complete the Credit for Prior Learning assessment petition.
- The student meets with the discipline faculty member to receive further instructions for student-created portfolio assessment.
- The student submits all portfolio documents to the discipline faculty member for assessment of prior learning.
- If the discipline faculty member determines that the student-created portfolio adequately measures mastery of the course content as set forth in the Course Outline of Record, the appropriate faculty shall sign the petition with the appropriate grade and forward it to Admissions and Records to be kept on file and recorded on the student transcript.

#### **Non-Collegiate Registered Nursing Training Credit**

Credit may be granted to a student who has a valid California RN license for nursing courses taken at an accredited non-collegiate RN nursing program toward the Associate of Science Degree in Nursing. Credit granted may not exceed the total number of nursing units required for the Associate Degree in Nursing at Río Hondo College.

#### **Upper-Division Credit**

Upper-division credit from U.S. regionally accredited institutions may be used to fulfill Río Hondo graduation requirements. Please see a counselor for more information.

### **Cooperative Work Experience Education**

Cooperative Work Experience Education is a three-way relationship between the student, the college, and the employer. It is an academic program that offers an opportunity to combine classroom learning with on-the-job experience - the purpose of which is to help the student choose a career or find the "right" job and to achieve success based on the choice. It also provides opportunities for the student who is already employed or who is seeking employment in a particular field of study. The student learns to establish short-and long-range career objectives and to recognize their progress through establishing measurable learning objectives.

Supervision, evaluation, and suggestions for improvement are provided.

#### **Cooperative Education benefits for the student:**

- College credit
- Career guidance in a realistic setting
- An opportunity to apply classroom learning on the job
- Networking and job contacts
- An opportunity to experience socialization in the workplace
- Transferable college units

### **Directed Study**

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

## Credit By External Examination:

**College credit for Advanced Placement (AP) tests:** students must have the College Board send AP exam results to the Office of Admissions and Records (hand-carried copies will NOT be accepted) for use toward the A.A./A.S. or GE patterns. Course credit and units granted at Río Hondo College may differ from course credit and units granted by a transfer institution. Students may earn credit for Advanced Placement (AP) Tests with scores of 3, 4, or 5 unless otherwise noted. AP credit can be used to meet IGETC, CSU GE and A.A./A.S. general education (GE) and/or major requirements.

For most AP subjects, results indicate that AP Exam scores of 5 are equivalent to A+ and A grades in the corresponding college course. AP Exam scores of 4 are equivalent to grades of A-, B+, and B in college. AP Exam scores of 3 are equivalent to grades of B-, C+, and C in college. More information on the reliability and validity of AP scores is available online at: [www.collegeboard.org](http://www.collegeboard.org).

Exam	RHC AA/AS (MAJOR AND/OR GE) Score of 3 or better for subject area unless otherwise indicated	CSU GE	CSU - UNITS EARNED TOWARD TRANSFER	IGETC	UC - UNITS EARNED TOWARD TRANSFER
Art History	<b>ART 105, 106</b> 6 semester units	Area C1 or C2 (if taken prior to Fall 2009) Area C2 (if taken Fall 2009 or later) 3 semester units	6 semester units	Area 3A or 3B 3 semester units	8 quarter/ 5.3 semester units
Art (Studio-2D Design)	N/A	N/A	3 semester units	N/A	8 quarter/ 5.3 semester units **
Art (Studio-3D Design)	N/A	N/A	3 semester units	N/A	8 quarter/ 5.3 semester units **
Art (Studio-Drawing)	N/A	N/A	3 semester units	N/A	8 quarter/ 5.3 semester units **
<b>AP STUDIO ARTS LIMITATIONS</b>					<b>**Maximum credit 8 quarter/5.3 semester units for all studio arts exams</b>
Biology	<b>BIOL 101</b> 4 semester units	Areas B2 and B3 4 semester units	6 semester units	Areas 5B and 5C 4 semester units	8 quarter/5.3 semester units
Calculus AB	<b>Score of 3 – Math Competence and Communication &amp; Analytical Thinking</b> 3 semester units <b>Score of 4 or 5 - MATH 190</b> 4 semester units	Area B4 3 semester units	3 semester units*	Area 2A 3 semester units	4 quarter/2.6 semester units**
Calculus BC	<b>Score of 3 – Math Competence and Communication &amp; Analytical Thinking</b> 3 Semester Units <b>Score of 4 or 5 - MATH 190, 191</b> 8 semester units	Area B4 3 semester units	6 semester units*	Area 2A 3 semester units	8 quarter/5.3 semester units**
Calculus BC/AB Subscore	<b>Score of 3 – Math Competence and Communication &amp; Analytical Thinking</b> 3 semester units <b>Score of 4 or 5 - MATH 190</b> 4 semester units	Area B4 3 semester units	3 semester units*	Area 2A 3 semester units	4 quarter/2.6 semester units**

Exam	RHC AA/AS (MAJOR AND/OR GE) Score of 3 or better for subject area unless otherwise indicated	CSU GE	CSU - UNITS EARNED TOWARD TRANSFER	IGETC	UC - UNITS EARNED TOWARD TRANSFER
<b>AP CALCULUS EXAM LIMITATIONS</b>			<i>*Only one exam in calculus or computer science may be used toward transfer</i>		<i>**Maximum credit 8 quarter/5.3 semester units for all calculus exams</i>
Chemistry	Score of 3 – <b>Chemistry 120</b> Score of 4 or 5 – <b>Chemistry 130</b> 5 Semester units	Areas B1 and B3 4 semester units	Areas B1 and B3 4 semester units	Areas 5A and 5C 4 semester units	8 quarter/5.3 semester units
Chinese Language & Culture	<b>Humanities</b> 3 Semester Units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
Computer Science A	N/A	N/A	3 semester units*	N/A	8 quarter/5.3 semester units***
Computer Science AB	N/A	N/A	6 semester units*	N/A	4 quarter/2.6 semester units***
Computer Science Principles	N/A	Area B4 (if taken Fall 2019 or later) 3 semester units	6 semester units*	N/A	8 quarter/5.3 semester units***
<b>AP COMPUTER SCIENCE EXAM LIMITATIONS</b>			<i>*Only one exam in calculus or computer science may be used toward transfer</i>		<i>***Maximum 8 quarter/5.3 semester units for both</i>
Economics - Macroeconomics	Score of 3 - <b>Social &amp; Behavioral Science</b> 3 semester units Score of 4 or 5 – <b>ECON 101</b>	Area D 3 semester units	3 semester units	Area 4 3 semester units	4 quarter/2.6 semester units
Economics - Microeconomics	Score of 3 - <b>Social &amp; Behavioral Science</b> 3 semester units Score of 4 or 5 – <b>ECON 102</b>	Area D 3 semester units	3 semester units	Area 4 3 semester unit	4 quarter/2.6 semester units
English - Language & Composition	<b>ENGL 101</b> 3.5 semester units	Area A2 3 semester units	6 semester units	Area 1A 3 semester units	8 quarter/5.3 semester units*
English - Literature & Composition	<b>ENGL 101, LIT 102</b> 6.5 semester units	Areas A2 and C2 6 semester units	6 semester units	Area 1A or 3B 3 semester units	8 quarter/5.3 semester units*
<b>AP ENGLISH EXAM LIMITATIONS</b>					<i>*8 quarter/5.3 semester units maximum for both</i>
Environmental Science	<b>Natural Science w/Lab</b> 4 semester units	Areas B2 and B3 (if taken prior to Fall 2009) or Areas B1 and B3 (regardless of when taken) 4 semester units	4 semester units	Areas 5A and 5C 3 semester units	4 quarter/2.6 semester units
French Language & Culture	<b>Humanities</b> 3 Semester Units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units

Exam	RHC AA/AS (MAJOR AND/OR GE) Score of 3 or better for subject area unless otherwise indicated	CSU GE	CSU - UNITS EARNED TOWARD TRANSFER	IGETC	UC - UNITS EARNED TOWARD TRANSFER
French Literature	<b>Humanities</b> 3 Semester Units	Area C2 <i>(if taken prior to Fall 2009)</i> 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
German Language & Culture	<b>Humanities</b> 3 Semester Units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
Government & Politics - Comparative	<b>Social &amp; Behavioral Science</b> 3 semester units	Area D 3 semester units	3 semester units	Area 4 3 semester units	4 quarter/2.6 semester units
Government & Politics - U.S.	<b>POLS 110</b> 3 semester units	Area D and US-2* 3 semester units	3 semester units	Area 4 and US-2* 3 semester units	4 quarter/2.6 semester units
		<b>*Does not fulfill California Government requirement (US-3)</b>	<b>Student can satisfy the requirement after transfer</b>	<b>*Does not fulfill California Government requirement (US-3)</b>	
History - European	<b>Social &amp; Behavioral Science or Humanities</b> 3 semester units	Area C2 or D 3 semester units	6 semester units	Area 3B or 4 3 semester units	8 quarter/5.3 semester units
History - U.S.	<b>HIST 143, 144</b> 6 semester units	Area C2 or D and US-1 3 semester units	6 semester units	Area 3B or 4 and US-1 3 semester units	8 quarter/5.3 semester units
History - World	<b>HIST 101, 102</b> 6 semester units	Area C2 or D 3 semester units	6 semester units	Area 3B or 4 3 semester units	8 quarter/5.3 semester units
History - World - Modern	<b>HIST 102</b> 3 semester units	Area C2 or D 3 semester unit	3 semester units	Area 3B or 4 3 semester units	8 quarter/5.3 semester units
Human Geography	<b>Social &amp; Behavioral Science</b> 3 semester units	Area D 3 semester units	3 semester units	Area 4 3 semester units	4 quarter/2.6 semester units
Italian Language & Culture	<b>Humanities</b> 3 semester units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
Japanese Language & Culture	<b>Humanities</b> 3 semester units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
Latin	<b>Humanities</b> 3 semester units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
Latin - Vergil	<b>Humanities</b> 3 semester units	Area C2 <i>(if taken prior to Fall 2012)</i> 3 semester units	3 semester units	Areas 3B and 6A 3 semester units	4 quarter/2.6 semester units
Latin - Literature	<b>Humanities</b> 3 semester units	Area C2 <i>(if taken prior to Fall 2009)</i> 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	4 quarter/2.6 semester units
Music Theory	<b>Fine Arts</b> 3 semester units	Area C1 <i>(if taken prior to Fall 2009)</i> 3 semester units	6 semester units	N/A	8 quarter/5.3 semester units
Physics B	<b>Natural Science w/Lab</b> 4 semester units	Areas B1 and B3 4 semester units*	6 semester units*	Areas 5A and 5C 4 semester units	8 quarter/5.3 semester units**
Physics 1	<b>Natural Science w/Lab</b> 4 semester units	Areas B1 and B3 4 semester units*	4 semester units*	Areas 5A and 5C 4 semester units	8 quarter/5.3 semester units**



<b>Exam</b>	<b>RHC AA/AS (MAJOR AND/OR GE) Score of 3 or better for subject area unless otherwise indicated</b>	<b>CSU GE</b>	<b>CSU - UNITS EARNED TOWARD TRANSFER</b>	<b>IGETC</b>	<b>UC - UNITS EARNED TOWARD TRANSFER</b>
<b>Physics 2</b>	<b>Natural Science w/Lab</b> 4 semester units	Areas B1 and B3 4 semester units*	4 semester units*	Areas 5A and 5C 4 semester units	8 quarter/5.3 semester units**
<b>Physics C - Mechanics</b>	<b>Natural Science w/Lab</b> 4 semester units	Areas B1 and B3 4 semester units*	4 semester units*	Areas 5A and 5C 3 semester units	4 quarter/2.6 semester units**
<b>Physics C – Electricity/Magnetism</b>	<b>Natural Science w/Lab</b> 4 semester units	Areas B1 and B3 4 semester units*	4 semester units*	Areas 5A and 5C 3 semester units	4 quarter/2.6 semester units**
<b>AP PHYSICS EXAM LIMITATIONS</b>			<i>*Maximum 4 semester units toward GE and 6 semester units toward transfer</i>		<i>**Maximum 8 quarter/5.3 semester units for all Physics exams</i>
<b>Precalculus</b>	N/A	Area B4 3 semester units	3 semester units	N/A	N/A
<b>Psychology</b>	<b>PSY 101</b> 3 semester units	Area D 3 semester units	3 semester units	Area 4 3 semester units	4 quarter/2.6 semester units
<b>Seminar</b>	N/A	N/A	3 semester units	N/A	N/A
<b>Spanish Language &amp; Culture</b>	<b>SPAN 101, 102</b> 9 semester units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
<b>Spanish Literature &amp; Culture</b>	<b>SPAN 201</b> 4.5 semester units	Area C2 3 semester units	6 semester units	Areas 3B and 6A 3 semester units	8 quarter/5.3 semester units
<b>Statistics</b>	<b>MATH 130</b> 4 semester units	Area B4 3 semester units	3 semester units	Area 2A 3 semester units	4 quarter/2.6 semester units

## Credit by External Examination College Level Examination Program (CLEP)

Río Hondo College will award CLEP credit toward the Associate Degree and transfer to the CSU system accordingly. UC does not accept CLEP exams. Course credit cannot be granted if it duplicates coursework completed. Official CLEP scores must be sent directly to Río Hondo's Office of Admissions and Records. A student must be actively enrolled and have completed 12 units in residence at Río Hondo College when applying for credit by CLEP exam. CLEP credit may not be used to meet any residency requirement.

CLEP EXAM	PASSING SCORE FOR CSU CREDIT	MIN. SEM. UNITS EARNED FOR ADMISSION	CSU GE AREA/ CERTIFICATION UNITS	RIO HONDO GE AREA CREDIT	PASSING SCORE FOR RIO HONDO CREDIT	RIO HONDO EQUIVALENT COURSE (for Associate Degree)	RIO HONDO SEMESTER UNITS AWARDED
American Government	50	3 units	D 3 units	Social/Behavioral Sciences	50	N/A	3 units
American Literature	50	3 units	C2 3 units	Humanities	50	LIT 112A/B	6 units
Analyzing and Interpreting Literature	50	3 units	C2 3 units	Humanities	50	LIT 102	3 units
Biology	50	3 units	B2 3 units	Natural Sciences Lecture*	50	N/A	3 units
Calculus	50	3 units	B4 3 units	Communication & Analytical Thinking; Math Competence	50	N.A	3 units
Chemistry	50	3 units	B1 3 units	Natural Sciences Lecture*	50	N/A	3 units
College Algebra	50	3 units	B4 3 units	Communication & Analytical Thinking; Math Competence	50	N/A	3 units
College Algebra-Trigonometry	50	3 units	B4 3 units	Communication & Analytical Thinking; Math Competence	50	N/A	3 units
College Comp.	N/A	N/A	N/A	English Composition	50	ENGL 101	3.5 units
College Comp. Modular	N/A	N/A	N/A	English Composition	50	ENGL 101	3.5 units
English Comp. (no essay)	50	N/A	N/A	English Composition	50	ENGL 101 (if taken before July 2010)	3.5 units
English Comp. (with essay)	50	N/A	N/A	English Composition	50	ENGL 101 (if taken before July 2010)	3.5 units
English Literature	50	3 units	C2 (if taken before Fall 2011) 3 units	Humanities	50	LIT 146A/B	6 units
Financial Accounting	50	3 units	N/A		50	ACCT 101	4 units
French Level I	50	6 units	N/A	Humanities	80	FR 101/102	9 units
French Level II	59	12 units (if taken prior to Fall 2015) 9 units (if taken Fall 2015 or after)	C2 3 units	Humanities	80	FR 101/102/201	13.5 units

CLEP EXAM	PASSING SCORE FOR CSU CREDIT	MIN. SEM. UNITS EARNED FOR ADMISSION	CSU GE AREA/ CERTIFICATION UNITS	RIO HONDO GE AREA CREDIT	PASSING SCORE FOR RIO HONDO CREDIT	RIO HONDO EQUIVALENT COURSE (for Associate Degree)	RIO HONDO SEMESTER UNITS AWARDED
Freshman College Composition	N/A	N/A	N/A	English Composition	50	ENGL 101 (if taken before July 2010)	3.5 units
German Level I	50	6 units	N/A	N/A	N/A	N/A	N/A
German Level II	60	12 units (if taken prior to Fall 2015) 9 units (if taken Fall 2015 or after)	C2 3 units	Humanities	60	N/A	3 units
History, US I	50	3 units	D+US-1 3 units	Social/Behavioral Sciences	50	N/A	3 units
History, US II	50	3 units	D+US-1 3 units	Social/Behavioral Sciences	50	N/A	3 units
Human Growth & Development	50	3 units	E 3 units	Social/Behavioral Sciences	50	N/A	3 units
Humanities	50	3 units	C2 3 units	Humanities	50	N/A	3 units
Information Systems & Comp. Applications	50	3 units	N/A	N/A	50	CIT 101	3 units
Intro to Educ. Psychology	50	3 units	N/A	N/A	N/A	N/A	N/A
Introductory Business Law	50	3 units	N/A	N/A	50	BUSL 110	3 units
Introductory Psychology	50	3 units	D 3 units	Social/Behavioral Sciences	50	N/A	3 units
Introductory Sociology	50	3 units	D 3 units	Social/Behavioral Sciences	50	N/A	3 units
Natural Sciences	50	3 units	B1 or B2 3 units	Natural Sciences Lecture*	50	N/A	3 units
Pre-Calculus	50	3 units	B4 3 units	Communication & Analytical Thinking; Math Competence	50	N/A	3 units
Principles of Accounting	50	3 units	N/A	N/A	N/A	N/A	N/A
Principles of Macroeconomics	50	3 units	D 3 units	Social/Behavioral Sciences	50	N/A	3 units
Principles of Microeconomics	50	3 units	D 3 units	Social/Behavioral Sciences	50	N/A	3 units
Principles of Management	50	3 units	N/A	N/A	50	MGMT 150	3 units
Principles of Marketing	50	3 units	N/A	N/A	50	MRKT 170	3 units
Social Sciences and History	N/A	N/A	N/A	Social/Behavioral Sciences	50	N/A	3 units
Spanish Level I	50	6 units	N/A	Humanities	50	SPAN 101/102	9 units

CLEP EXAM	PASSING SCORE FOR CSU CREDIT	MIN. SEM. UNITS EARNED FOR ADMISSION	CSU GE AREA/ CERTIFICATION UNITS	RIO HONDO GE AREA CREDIT	PASSING SCORE FOR RIO HONDO CREDIT	RIO HONDO EQUIVALENT COURSE (for Associate Degree)	RIO HONDO SEMESTER UNITS AWARDED
Spanish Level II	63	12 units (if taken prior to Fall 2015) 9 units (if taken Fall 2015 or after)	C2 3 units	Humanities	63	SPAN 101/102/201	13.5 units
Trigonometry	50	3 units	B4 (if taken prior to Fall 2006) 3 units	Communication & Analytical Thinking; Math Competence	50	N/A	3 units
Western Civilization I	50	3 units	C2 or D 3 units	Humanities or Social/Behavioral Sciences	50	N/A	3 units
Western Civilization II	50	3 units	D 3 units	Social/Behavioral Sciences	50	N/A	3 units

\*Students may complete the laboratory requirement by enrolling in one of the following laboratory courses: BIOL 105L, BIOL 111L, or BIOL 120L. Please see a counselor to obtain clearance to enroll in one of these lab courses.

RHC: Students will get specific course credit only where a Río Hondo equivalent course has been designated. A student who receives CLEP credit and then takes the equivalent RHC course will have the unit credit for such duplication deducted prior to being awarded the Associate degree.

CSU: All CSU campuses will accept the minimum units shown and apply them toward fulfillment of the designated CSU GE area if the examination is included as part of a full or subject-area certification. Please note that individual CSU campuses may choose to grant more units than specified toward completion of the CSU General Education-Breadth requirements.

IGETC: CLEP exams cannot be used to certify for IGETC.

Please see a counselor for assistance in determining CLEP credit for graduation and/or transfer.

## Credit by External Examination International Baccalaureate (IB)

EXAM	RHC AA/AS GE Area Credit Score of 5 or better	CSU GE Score of 5 or better, unless noted otherwise	CSU - UNITS EARNED TOWARD TRANSFER	IGETC Score of 5 or Better	UC - UNITS EARNED TOWARD TRANSFER
<b>IB Biology HL</b>	<b>Natural Science Lecture</b> 3 semester units Clearance for BIOL 111L or 120L	Area B2 3 semester units	6 semester units	Area 5B 3 semester units	8 quarter/5.3 semester units
<b>IB Chemistry HL</b>	<b>Natural Science Lecture</b> 3 semester units	Area B1 3 semester units	6 semester units	Area 5A 3 semester units	8 quarter/5.3 semester units
<b>IB Economics HL</b>	<b>Social/Behavioral Sciences</b> 3 semester units	Area D 3 semester units	6 semester units	Area 4 3 semester units	8 quarter/5.3 semester units
<b>IB Geography HL</b>	<b>Social/Behavioral Sciences</b> 3 semester units	Area D 3 semester units	6 semester units	Area 4 3 semester units	8 quarter/5.3 semester units
<b>IB History (any region) HL</b>	<b>Humanities or Social/ Behavioral Sciences</b> 3 semester units	Area C2 or D 3 semester units	6 semester units	Area 3B or 4 3 semester units	8 quarter/5.3 semester units
<b>IB Language A – Lit. HL</b>	<b>Humanities</b> 3 semester units	Score of 4 or better Area C2 3 semester units	6 semester units	Area 3B (and 6A if language other than English) 3 semester units	8 quarter/5.3 semester units
<b>IB Language A – Lang. &amp; Lit. HL</b>	<b>Humanities</b> 3 semester units	Score of 4 or better Area C2 3 semester units	6 semester units	Area 3B (and 6A if language other than English) 3 semester units	8 quarter/5.3 semester units
<b>IB Language A1 (any language) HL</b>	<b>Humanities</b> 3 semester units	Score of 4 or better Area C2 (if taken prior to Fall 2013) 3 semester units	6 semester units	Area 3B 3 semester units	8 quarter/5.3 semester units
<b>IB Language A2 (any language) HL</b>	<b>Humanities</b> 3 semester units	Score of 4 or better Area C2 (if taken prior to Fall 2013) 3 semester units	6 semester units	Area 3B 3 semester units	8 quarter/5.3 semester units
<b>IB Language B (any language) HL</b>	<b>Humanities</b> 3 semester units	N/A	6 semester units	Area 6A 3 semester units	8 quarter/5.3 semester units
<b>IB Mathematics HL</b>	<b>Communication &amp; Analytical Thinking; Math Competence</b> 3 semester units	Score of 4 or better Area B4 (if taken prior to Fall 2022) 3 semester units	6 semester units	Area 2A 3 semester units	8 quarter/5.3 semester units
<b>IB Physics HL</b>	<b>Natural Science Lecture</b> 3 semester units	Area B1 3 semester units	6 semester units	Area 5A 3 semester units	8 quarter/5.3 semester units
<b>IB Psychology HL</b>	<b>Social/Behavioral Sciences</b> 3 semester units	Area D 3 semester units	3 semester units	Area 4 3 semester units	8 quarter/5.3 semester units
<b>IB Theatre HL</b>	<b>Fine Arts</b> 3 semester units	Score of 4 or better Area C1 3 semester units	6 semester units	Area 3A 3 semester units	8 quarter/5.3 semester units



# 7 Degree & Certificate Guidelines

## Degree Programs

Río Hondo College offers a variety of two-year programs leading to the Associate of Arts (A.A.), Associate of Science (A.S.), Associate in Arts for Transfer (AA-T), and Associate in Science for Transfer (AS-T) degrees. See this catalog for a listing of degree programs available.

## The A.A. or A.S. Degree Concept

Central to an associate degree, coursework is designed to introduce students to the variety of means through which people comprehend the modern world. This coursework is referred to as the general education requirement of the degree. It reflects the conviction of the college that those who receive these degrees must possess in common certain basic principles, concepts and methodologies both unique to and shared by the various disciplines. College educated persons should be able to use this knowledge when evaluating and appreciating the physical environment, the culture, and the society in which they live. Most importantly, these degrees should lead to better self-understanding. In addition to the general education coursework, courses within an area of specialization, called a major, are required for an associate degree. The area of specialization will appear on the face of all diplomas.

Students should meet with a counselor and create an education plan in order to ensure fulfillment of requirements of an associate degree.

**General Education Exceptions** – Those students who have been awarded a bachelor's degree from a United States regionally accredited college or university will be exempt from the Río Hondo College general education and proficiency requirements should they pursue an associate degree at this institution. Please see a counselor for additional information.

**Course Substitutions** – A request for a Course Substitution form must be completed and returned to the Admissions and Records Office in order to substitute one course for another or to waive part of a requirement. The course substitution request will be reviewed by a faculty representative, Dean of the discipline involved, and/or the Articulation Officer. Río Hondo College may accept extension and continuing education courses after taking into consideration whether they are comparable to Río Hondo courses, are from a United States regionally accredited institution, are taken for credit or a letter grade, and are degree-applicable at the originating institution.

## The A.A. or A.S. Degree Requirements

Both the Associate of Arts and the Associate of Science degrees require a minimum of 60 units with a 2.0 or better grade-point average (GPA). At least 12 units must be in residence at Río Hondo College. Non-degree applicable coursework will not be included in the total number of units earned toward a degree.

The degree of Associate of Arts or Associate of Science will be conferred upon any student satisfactorily completing a minimum of 60 degree applicable units, with a cumulative 2.0 grade-point average (GPA) or better, and at least twelve (12) units in residence, and which will include a major consisting of a minimum of eighteen (18) units with a grade of "C" or better in each course, and satisfactory completion of any one (1) of the following general education patterns:

- California State University General Education Breadth (CSU GE)
- Intersegmental General Education Transfer Curriculum (IGETC)
- Río Hondo College General Education and Proficiency requirements.

A listing of all majors can be found in the degree listing in the college catalog. Effective Fall 2008, courses can be used to meet a General Education area and Major requirement.

## Associate in Arts for Transfer (AA-T) or Associate in Science for Transfer (AS-T) Requirements

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to the California State University (CSU) system for any community college student who completes an Associate Degree for Transfer (ADT). The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Certain private institutions that are part of the Association of Independent California Colleges and Universities (AICCU) or are partner Historically Black Colleges and Universities (HBCU) also offer guaranteed admission to students earning an ADT (please visit [aiccu.edu/transfer](http://aiccu.edu/transfer) and [extranet.cccco.edu/HBCUTransfer/Agreements](http://extranet.cccco.edu/HBCUTransfer/Agreements) for more information and a list of participating institutions).

Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 semester units of CSU-transferable coursework with a minimum overall GPA of 2.0. A minimum of 18 semester units in the major must be completed with a grade of "C" or better in each course (or with a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or higher). Students are required to complete either the CSU GE pattern or IGETC pattern along with 12 units in residence at the college. There are no additional graduation requirements for an AA-T or AS-T degree.

Students transferring to a CSU campus that deems the AA-T or AS-T as similar to the transfer major will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or other institution that is not part of the CSU system. Students should consult with a counselor

when planning to complete the degree for more information on university admission and transfer requirements.

### **Associate in Science Degree for Transfer (AS-T)**

AS-T subject areas include:

- Administration of Justice
- Biology
- Business Administration
- Chemistry
- Computer Science
- Early Childhood Education
- Environmental Science
- Film, Television, and Electronic Media
- Geology
- Hospitality Management
- Mathematics
- Nutrition and Dietetics
- Physics

### **Associate in Arts Degree for Transfer (AA-T)**

AA-T subject areas include:

- Anthropology
- Art History
- Communication Studies
- Economics
- Elementary Teacher Education
- English
- History
- Journalism
- Kinesiology
- Music
- Philosophy
- Political Science
- Psychology
- Social Justice Studies
- Sociology
- Spanish
- Studio Arts
- Theatre Arts

## **Associate Degree for Transfer - Reciprocity Policy**

Students who have fulfilled a specific course requirement or entire area of an AA-T/AS-T degree at a California Community College will be considered to have met those requirements at Río Hondo College for the same degree. Students must initiate the review process with a counselor and must have official transcripts sent to the RHC Admissions and Records Office.

## **University of California Transfer Pathways (UCTP) Degrees**

Students completing one of these Associate in Science for UC Transfer Degrees are considered to have completed the lower division preparation in the major. Please note that earning this degree alone does not guarantee admission to the UC system. UCTP subject areas include:

- Chemistry
- Physics

## **Río Hondo College General Education and Proficiency Requirements**

The Río Hondo General Education & Proficiency requirements can be used to fulfill only the general education requirements of an Associate of Arts or Associate of Science degree.

### **1. Competence in reading and written expression may be met by one of the following:**

- a. Credit earned in ENGL 101 with a grade of "C" or better.
- b. A satisfactory score on the CSU English. Equivalency Exam (to be determined by the Division of Communications and Languages)
- c. Students earning a "C" or better in freshman composition courses (3 or more semester/4 or more quarter units) from United States regionally accredited colleges and universities.
- d. Advanced Placement examination scores of 3, 4, or 5 on either of the following exams: AP English Language & Composition or English Literature & Composition.
- e. CLEP examination scores of 50 or higher on one of the following exams: College Comp, College Comp Modular, English Comp (if taken prior to July 2010).

### **2. Competence in mathematics may be met by one of the following:**

- a. Credit ("C" grade or better) in MATH 060 (Geometry), MATH 062 (Pre-Statistics), MATH 070 (Intermediate Algebra), MATH 070CD (Intermediate Algebra: Part II), MATH 072 (The Mathematics of Money), MATH 073 (B-STEM Intermediate Algebra, formerly titled Fast-Track Intermediate Algebra), MATH 073B (B-STEM Intermediate Algebra B), or a higher level quantitative reasoning course.
- b. Demonstrate proficiency by a satisfactory score on the Río Hondo College Math Proficiency Exam.
- c. Advanced Placement examination scores of 3, 4 or 5 on one of the following exams: AP Calculus AB, AP Calculus BC, or AP Statistics.
- d. CLEP examination scores of 50 or higher on one of the following exams: Calculus, College Algebra, College Algebra-Trig, or Trigonometry.

### **3. Physical Education-Minimum 2 classes.**

Any two physical education or dance activity courses. (Exemption may be granted to those students physically unable to complete this requirement. Exemption forms are available in the Student Health and Psychological Services Office.) Students who have completed a Fire, Police, Wildland Fire, or Corrections Academy from an accredited institution are automatically waived from this requirement. Students with honorable discharge DD214 paperwork will be waived from this requirement.

### **4. American Institutions Requirement\*-Minimum of one course:**

HIST 143, 143H, 144, 144H, 156, 157, 158, 159, 159H, 170,  
POLS 110 or 110H

### **5. Natural Sciences with Lab (a lab must be included)-Minimum 3 units:**

ANTH 101, 101H, & 101L  
ASTR 110, 110H, 112, & 137  
BIOL 101, 105 & 105L, 111 & 111L, 112, 120 & 120L  
BIOT 100  
CHEM 110, 120, 130

GEOG 101 & 101L  
GEOL 150 & 151, 152 & 152L  
PHY 120, 150, 160, 211, 212, 213

#### **6. Social and Behavioral Sciences - Minimum 3 units:**

AJ 101  
ANTH 102, 102H, 103, 104, 110, 115, 125  
CD 106, 208  
CHST 101, 146, 148, 148H, 150  
ECON 101, 101H, 102, 102H, 106, 135  
EGSS 110, 120, 130  
GEOG 102, 103  
HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 156, 157, 158, 159, 159H, 167, 170  
HUM 110, 111, 125, 125H, 130  
KIN 170, 190, 195  
MSCM 128  
PHIL 128, 128H, 135  
POLS 110, 110H, 115, 125, 128, 128H, 130, 135, 140, 150  
PSY 101, 101H, 112, 114, 180, 200  
SOC 101, 101H, 102, 105, 110, 114, 116, 120, 127, 130  
SPCH 150

#### **7. Humanities**

##### **A. Fine Arts – Minimum 3 units:**

ARCH 103  
ART 101, 104, 105, 105H, 106, 106H, 107, 108, 109, 110, 112, 113, 115, 117, 120, 130, 135, 140  
DANC 179, 179H, 199, 199H  
GDSN 110  
MUS 101, 129, 130, 131, 132, 133, 135, 136  
MUST 151, 152  
PHTO 110, 130  
THTR 101, 105, 105H, 110

##### **B. Humanities – Minimum 3 units:**

ANTH 104  
ASL 101, 124, 201, 202  
CHIN 101, 102  
CHST 101, 146, 148, 148H, 150  
EGSS 130  
ENGL 126, 131  
FR 101, 102, 201, 202  
HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 156, 157, 158, 159, 159H, 167, 170  
HUM 110, 111, 125, 125H, 130, 140, 145  
JAPN 101, 102  
LIT 102, 102H, 112A, 112AH, 112B, 112BH, 114, 114H, 117, 117H, 130, 130H, 140, 140H, 141, 141H, 142, 142H, 144A, 144AH, 144B, 144BH, 145, 145H, 146A, 146AH, 146B, 146BH, 147, 147H, 148, 148H, 149, 149H  
MSCM 128  
PHIL 101, 101H, 120, 122, 124, 126, 128, 128H, 135, 140  
POLS 128, 128H, 150  
SPAN 101, 101S, 102, 102S, 201, 201H, 202  
SPCH 130, 132

#### **8. Language and Rationality**

##### **A. English Composition—Minimum 3 units:**

ENGL 101

##### **B. Communication and Analytical Thinking – Minimum 3 units:**

CIT 101, 125, 135  
ENGL 125, 201, 201H  
FIN 101

GIS 120  
LIB 101  
MATH 130, 130H, 140, 150, 160, 170, 175, 180, 190, 190H, 191, 250, 251, 260, 270  
PHIL 110, 110H, 112, 112H, 115  
PSY 190  
SPCH 100, 101, 101H, 120, 140  
READ 101  
VOCB 101

*\*Any course taken to meet the American Institutions requirement may not be used to meet another general education requirement.*

*Courses may be used to fulfill only one G.E. area.*

*(It is the student's responsibility to provide verification to the Admissions and Records Office if any of the above requirements are met at another college or university.)*

### **Multiple Majors/Second Associate Degrees**

A student may be eligible for more than one major within a degree providing that all required courses and units for each major are completed. It is possible for a student to be awarded more than one degree providing that all residency, unit, general education, and major requirements are met for the additional degree.

### **Catalog Rights**

A student may elect to meet the graduation requirements in effect at the time of entrance, at the time of graduation, or any time in between, provided that he/she/they maintain continuous enrollment.

### **Continuous Enrollment**

Continuous enrollment is defined as being enrolled in at least one course each semester and receiving an A, B, C, D, F, P, NP, I or W at Río Hondo College or any other campus within the California community college or university system. If there is a break in enrollment for more than three consecutive semesters, the student will be held to the new requirements listed in the catalog at the time of re-enrollment. Absence from a summer session is not considered a break in enrollment. In extenuating circumstances, a student may submit a request for an exception to the Director of Admissions and Records for consideration.

### **Graduation**

Students planning to graduate should file a "petition for graduation" during the semester in which they plan to graduate. Petitions are available online through students' AccessRio portal under Academics. Deadlines for filing graduation petitions are available on the Río Hondo website, under the Admissions/Graduation Information link. Please note that Río Hondo College hosts a commencement ceremony in the spring semester of each year.

### **Certificate Programs**

Certificate programs are designed for students interested in developing advanced levels of proficiency in special occupational subject areas. A student may elect to meet the Certificate of Achievement, Certificate of Skill Proficiency, or Career Certificate requirements in effect at the time of entrance or at the time of graduation provided that they maintain continuous enrollment (see Catalog Rights – Continuous Enrollment).

Certificates are awarded upon successful completion of the courses indicated in a designated subject area. Consult each program area for specific requirements. A candidate must maintain a minimum of a "C" average in the certificate program and complete at least one required course for the certificate at Río Hondo College.

## **Certificate of Achievement**

The Certificate of Achievement is designed to recognize a specific academic accomplishment or to prepare students for entry-level employment in a vocational area. This certificate is awarded through Admissions and Records and will be posted on the student's transcripts. Upon completion of required Certificate of Achievement courses, students must file an application with the Admissions and Records Office. Deadlines for filing a Certificate of Achievement application are available on the Río Hondo College website.

## **Certificate of Skill Proficiency**

The Certificate of Skill Proficiency provides the student with skills designed to enhance their job marketability and mobility. This certificate is awarded through the designated Division Office and will not be posted on the student's transcript.

## **Career Certificate**

The Career Certificate prepares students for specific job opportunities. This certificate is awarded through the designated Division Office and will not be posted on the student's transcript.

## **Exceptions to Graduation/Certificate of Achievement Requirements**

Request for a Course Substitution form must be completed and returned to the Admissions and Records Office in order to substitute one course for another or to waive part of a requirement in the event of discontinued courses. The course substitution request will be reviewed by a faculty representative, dean of the discipline involved and/or by the Articulation Officer.

# 8 Transfer

## Transfer Programs

Students whose goal is to transfer to a four-year institution should identify the following:

- Major/Career
- Preferred four-year institutions of choice
- General education courses to meet transfer requirements for admission and timely graduation
- Major preparation courses for the major

Students are strongly encouraged to meet with a counselor to discuss the development of their education plan and discuss academic, career, and personal topics that may influence their education goal. Academic faculty members are valuable contacts in providing information related to a student's career or college choice.

The Transfer Center is another valuable resource for students interested in transferring. The following services are available in the Transfer Center: Transfer Counseling, Application Workshops, Appointments with University Representatives, University Campus Tours, Transfer Fairs, Transfer Workshops, Resource Materials, Library of College Admission Materials, and Computer Resource Lab.

Río Hondo College offers courses similar to courses in the lower division (i.e., first two years) of four-year universities. Course requirements for graduation vary from one institution to another. It is to a student's advantage to choose their transfer university as early as possible. Students are advised to complete the courses at Río Hondo College that best satisfy the lower-division course requirements of their particular transfer institution. Lower division course requirements typically include a set of general education courses and a sequence of courses in the student's chosen major.

## Educational Planning for Transfer

Each four-year institution has its own basic pattern of lower-division requirements regarding both general education and specific majors. These requirements vary from college to college and often change from year to year. Río Hondo College has articulated courses with the California State University and University of California campuses as well as some out-of-state and private/ independent colleges and universities.

The Transfer Center has a listing of requirements for completing the Intersegmental General Education Transfer Curriculum (IGETC), CSU General Education Breadth, and other general education patterns. In addition, there are computers for student use to access information on the Internet regarding the college of their choice.

Students may also utilize ASSIST, the statewide repository of articulation information offering easy access to a single computerized database of student transfer information ([www.ASSIST.org](http://www.ASSIST.org)). The database includes IGETC and CSU GE Breadth lists as well as articulation agreements for many California public post-secondary institutions (community colleges, CSUs and UCs).

Students who plan to transfer to one of the California four-year colleges or universities should complete their comprehensive educational plan with a counselor.

## Transferring to California State University (CSU)

The California State University system consists of 23 campuses located throughout the state. Admission representatives from local CSU campuses visit the Río Hondo College Transfer Center on a regular basis. Please check with the Transfer Center for more detailed information.

Each California State University (CSU) campus has its own general education and major requirements. Therefore, students should work with a counselor to first select a particular CSU campus and then formulate a strategy for completing that campus' general education, major, and admission requirements.

Courses transferable to CSU campuses are identified in the course description in this Catalog and in the Class Schedule. Courses identified as meeting major preparation are listed in the ASSIST articulation database, which can be viewed at [www.ASSIST.org](http://www.ASSIST.org).

Students who have completed 60 transferable semester units (90 quarter units) with a 2.0 grade point average (2.4 for non-resident students) by the time of entry to a CSU are considered upper division applicants. Upper division applicants are eligible for admission to a CSU if they:

1. Are in good standing at the last college or university attended AND
2. Have completed, or will complete prior to transfer at least 30 semester units of general education requirements. The 30 semester units must include one course in written communication, one course in oral communication, one course in critical thinking, and one course in mathematics/quantitative reasoning. These four courses must be completed with a grade of "C-" or better.
3. The remaining units to reach 60 transferable semester units can be acquired through completion of lower division major preparation and/or CSU transferable elective units.

A maximum of 70 semester units earned at a community college may be transferred to the CSU; however, courses in excess of 70 semester units will receive subject credit and will be applied to satisfy content requirements as appropriate. No upper-division credit is allowed for courses taken at a community college.

## CSU Impaction

When a program or level (upper-division transfer) or campus receives more applications from eligible applicants during the initial application filing period than can be accommodated given the available resources, that campus or program is considered to be impacted.

## CSU Local Definition

Each CSU campus determines how they define "local." Río Hondo College's local campus is California State University, Los Angeles. Transfer applicants who are transferring directly from Río Hondo College are considered 'local' if Río Hondo College is the last institution attended and the majority of transferable units were completed at Río Hondo College. Students who earn an Associate



Degree for Transfer (AA-T/AS-T) in a major deemed 'similar' to the Cal State LA major are also considered "local."

## CSU Redirection Process

This is a process that ensures that applicants eligible for admission who cannot be accommodated at their first choice campus(es) are redirected to another CSU campus without having to complete another application for admission.

## CSU Certification

Certification means that Río Hondo College has verified that a student has completed the lower-division general education requirements for the CSU. For full certification, students must complete 39 units from Categories A through E of the CSU General Education Requirements.

Certification from a community college is important because without it, students will be held to the general education requirements specific to the CSU campus to which they are transferring. Once the student is certified, the CSU campus will identify the student as having completed the lower-division general education requirements. (Please note that 9 units of upper-division general education courses must be completed at the CSU after transfer.) Courses in Area A and Area B4 must be completed with a "C-" or better.

It is the student's responsibility to request certification. To obtain the certification, students must file a Transcript Request Form with the Office of Admissions and Records. The final transcript and general education certification will then be sent to the CSU.

Because the requirements for a particular major may differ from one CSU campus to another, and because requirements may change yearly, students must consult regularly with a counselor when selecting courses.

## CSU Application

Applications for admission to the CSU system are available online at [www.calstate.edu/apply](http://www.calstate.edu/apply). Applications to impacted programs must be filed during the priority-filing period. Applications should be filed as early as possible to ensure priority consideration.

## CSU Application Filing Periods

Students are encouraged to attend a Transfer Center application workshop before beginning the application process. Remember that applications are submitted one year prior to transferring.

### The priority filing periods are:

- Fall Semester: October 1 - November 30
- Spring Semester: August 1-31

## CSU General Education Breadth Course Requirements

The CSU GE Breadth is an agreement between Río Hondo and the CSU campuses regarding general education requirements. This list of courses is updated annually. Students can complete these courses to fulfill their lower-division general education requirements at a community college before they transfer to a CSU campus. The CSUGE Breadth is just one way to fulfill the lower-division general education requirements for the CSU. Students may also use IGETC to fulfill lower-division general education requirements at the CSU (see in this catalog.) Courses taken by students for CSU GE Certification must be selected from the following list:

### AREA A: English Language Communication and Critical Thinking:

Choose one course from each group. (9 units minimum)

### A1: Oral Communication

SPCH 100, 101, 101H, 120, 140

### A2: Written Communication

ENGL 101

### A3: Critical Thinking

ENGL 201, 201H  
PHIL 110, 110H, 112, 112H, 115  
READ 101  
SPCH 140

### AREA B: Scientific Inquiry and Quantitative Reasoning:

Choose one course from each group; one of the science courses must include a laboratory (indicated by \*). (9 units minimum)

#### B1: Physical Sciences

ASTR 110, 110H, 112\*, 137\*  
CHEM 110\*, 120\*, 130\*, 140\* 230\*, 231\*  
GEOG 101, 101L\*  
GEOL 150, 151\*, 152, 152L\*  
PHY 120\*, 150\*, 160\*, 211\*, 212\*, 213\*

#### B2: Biological Sciences

ANTH 101, 101H, 101L\*  
BIOL 101\*, 105, 105L\*, 111, 111L\*, 112\*, 120, 120L\*, 200\*, 201\*, 206, 222\*, 226\*  
BIOT 100\*  
PSY 210, 210H

#### B3: Laboratory Activity

All lab courses are identified by \* in groups B1 and B2 above.

#### B4: Mathematics/Quantitative Reasoning

FIN 101  
MATH 130, 130H, 140, 150, 160, 170, 175, 180, 190, 190H, 191, 250, 251, 260, 270  
PSY 190

### AREA C: Arts and Humanities

Choose at least one course from C1: Arts and at least one course from C2: Humanities. Additional courses may be taken from either of the groups. (9 units minimum)

#### C1: Arts (Art, Dance, Music, Theatre)

ARCH 103  
ART 101, 104, 105, 105H, 106, 106H, 107, 108, 109, 110, 112, 113, 115, 117, 120, 121, 130, 135, 140  
DANC 179, 179H, 199, 199H  
GDSN 110  
MUS 101, 129, 130, 131, 132, 133, 134, 135, 136  
MUST 151, 152  
PHTO 110, 130  
THTR 101, 105, 105H, 110, 150

#### C2: Humanities (Literature, Philosophy, Foreign Languages)

ANTH 104  
ASL 101, 124, 201, 202  
CHIN 101, 102  
CHST 101, 146, 148, 148H, 150  
EGSS 130  
ENGL 126, 131  
FR 101, 102, 201, 202

HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 156, 157, 158, 159, 159H, 167, 170  
HUM 110, 111, 125, 125H, 130, 140, 145  
JAPN 101, 102  
LIT 102, 102H, 112A, 112AH, 112B, 112BH, 114, 114H, 117, 117H, 130, 130H, 140, 140H, 141, 141H, 142, 142H, 144A, 144AH, 144B, 144BH, 145, 145H, 146A, 146AH, 146B, 146BH, 147, 147H, 148, 148H, 149, 149H  
PHIL 101, 101H, 120, 122, 124, 126, 128, 128H, 135, 140,  
POLS 128, 128H, 150  
SPAN 101, 101S, 102, 102S, 201, 201H, 202  
SPCH 130, 132

**AREA D: Social Sciences: Choose two courses (6 units) from any discipline(s).**

AJ 101  
ANTH 101, 101H, 102, 102H, 103, 104, 110, 115, 125  
CHST 101, 146, 148, 148H, 150  
CD 106, 208  
ECON 101, 101H, 102, 102H, 106, 135  
EGSS 110, 120, 130  
GEOG 102, 103  
HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 156, 157, 158, 159, 159H, 167, 170  
HUM 110, 111, 125, 125H, 130  
KIN 170, 190, 195  
MSCM 128  
PHIL 128, 128H, 135  
POLS 110, 110H, 115, 125, 128, 128H, 130, 135, 140, 150  
PSY 101, 101H, 112, 114, 180, 200  
SOC 101, 101H, 102, 105, 110, 114, 116, 120, 127, 130  
SPCH 150

**HIGHLY RECOMMENDED:** All CSU campuses have a graduation requirement in U.S. History, Constitution and American Ideals. Students may be certified as having completed this requirement at Río Hondo College by taking POLS 110 or 110H and one of the following U.S. history courses: HIST 143, 143H, 144, 144H, 156, 157, 158, 159, 159H, 170. These courses may be used to partially satisfy area C and/or D of the CSU GE Breadth.

**AREA E: Lifelong Learning and Self-Development:**

Choose one course (3 units minimum) from the following:

ANTH 110  
CD 106  
COUN 101, 104, 151  
DD 214 (see counselor for details)  
EDEV 101, 151  
EGSS 130  
HUSR 123  
KIN 159, 170, 190, 191, 192, 196  
NUTR 110  
PHIL 122  
PSY 112, 121  
SOC 105, 110

**AREA F: Ethnic Studies:**

Choose one course (3 units minimum) from the following:

CHST 101  
EGSS 110

Students who begin and maintain continuous enrollment at Río Hondo College prior to Fall 2021 will not be required to complete a course in Area F. Instead, these students will complete 9 units from

at least two disciplines in Area D. New students starting at Río Hondo College beginning Fall 2021 or later and returning students who have not maintained continuous enrollment will be required to complete a course in Area F in addition to completing two courses (6 units) in Area D from any discipline or disciplines. Please see a counselor for details.

NOTE: Courses may be used to fulfill only one General Education area.

For a complete listing of courses and their approval dates, students may log on to [www.assist.org](http://www.assist.org).

**Transferring to University of California (UC)**

The University of California (UC) has 9 campuses located throughout the state. Admission representatives from local UC campuses visit the Río Hondo College Transfer Center on a regular basis. Please check with the Transfer Center for more detailed information.

Course requirements vary from one UC campus to another. Therefore, it is advised that students work with a counselor to first select a particular UC campus and then formulate a strategy for completing that campus's general education requirements, major requirements, and admissions requirements. At most UC campuses, admission is competitive and a grade point average (GPA) higher than the 2.4 minimum is required. Some UC campuses require that students complete specific coursework in a major before transfer, and some majors require a higher grade point average than designated for general admission. See a Río Hondo counselor for further explanation and planning materials.

Courses transferable to UC campuses are identified in the course description in this Catalog and in the Class Schedule. Courses identified as meeting major preparation are listed in the ASSIST articulation database, which can be viewed at [www.assist.org](http://www.assist.org).

**Transfer Admission Requirements**

To be eligible for admission to a UC as a transfer student, a student must fulfill the following criteria:

- Complete 60 UC transferable semester units (90 quarter units) with a minimum GPA of 2.4 (2.8 for nonresidents); AND
- Complete the following course requirements, earning a grade of "C" or better in each course: two transferable college courses in English composition; one transferable college course in mathematical concepts and quantitative reasoning; four transferable college courses chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences.

*NOTE: The IGETC (Intersegmental General Education Transfer Curriculum) Pattern will meet these course requirements. However, some students, depending on the transfer major and university, may not be well served by following IGETC; AND*

- Complete as many major preparation courses as possible. Major preparation may be viewed at [www.assist.org](http://www.assist.org). NOTE: Selective majors require certain courses to be completed before transfer with a higher grade point average.

The UC allows up to 70 UC transferable units from a community college. Students who complete more than 70 units at the community college may still complete courses to fulfill course requirements but will not be able to transfer more than the 70 units of credit.

**IMPORTANT! To be considered for fall admission at most campuses, students must plan to complete all courses**

required for admission no later than the spring semester preceding the fall they wish to enter the university.

## Community College Transfer Priority Admission

UC campuses give priority consideration for admission to California community college students. A California community college student applying for admission to the University of California in advance standing will be given priority admission over all other applicants if:

1. The student was enrolled at one or more California community college for at least two terms (excluding summer sessions); AND
2. The last college attended before admission to a UC campus was a California community college (excluding summer sessions); AND
3. The student has completed at least 30 semester (45 quarter) UC transferable units at one or more California community college.

## IGETC General Education Certification

Certification means that the last community college attended prior to transfer will verify that the student has completed the entire IGETC pattern. Students must apply for the IGETC certification at the community college they attended. Coursework taken at other community colleges will be certified at the discretion of the community college where the IGETC will be completed. Río Hondo College will certify for IGETC after completion of all courses required. It is the student's responsibility to request certification. To obtain the certification, students must file a Transcript Request Form with the Office of Admissions and Records. The final transcript and general education certification will then be sent to the UC.

## Transfer Admission Guarantee (TAG)

The Transfer Admission Guarantee (TAG) program offers guaranteed admission to the students who complete a core set of courses at Río Hondo College a full term prior to transferring. Students in the TAG program can receive early review of their academic records, early admission notification, and specific guidance on major preparation and general education coursework. Río Hondo College has agreements with six UC campuses (UC Davis, UC Irvine, UC Merced, UC Riverside, UC San Diego, UC Santa Barbara, and UC Santa Cruz). TAG requirements vary by UC campus. The application filing period is typically September 1-30th of the year prior to transfer for Fall admission and May 1-31st for Winter/Spring. For further information, meet with a counselor in the Transfer Center.

The following are steps necessary for a student to be on pace for TAG to the University of California:

- Create a TAP account
- Consider IGETC as a general education pattern
- Complete major preparation courses
- TAG one campus
- Apply to UC
- Visit the Transfer Center in Room SS250 for more information.

## UC Application

Applications for admission to the UC system are available online at [www.universityofcalifornia.edu/apply](http://www.universityofcalifornia.edu/apply).

NOTE: The UCs require applicants to respond to personal insight questions. Visit the Transfer Center for more information.

## UC Application Filing Periods

Students are encouraged to attend a Transfer Center application workshop before beginning the application process. Remember that applications are submitted one year prior to transferring.

The priority filing periods are:

**Fall Semester: October 1- November 30**

**Winter/Spring Semester: July 1 - July 31**

All UC campuses accept applicants for fall admission. To determine which UC campuses accept applicants for winter and/or spring, call the specific campus or visit the Transfer Center.

## Intersegmental General Education Transfer Curriculum (IGETC) For CSU & UC

The IGETC is an agreement between Río Hondo and the CSU and UC campuses regarding general education requirements. The IGETC list of courses was developed first in 1991 and is updated annually. Students can complete these courses to fulfill their lower-division general education requirements at a community college before they transfer to a CSU or UC campus. The IGETC is just one way to fulfill the lower-division general education requirements of a CSU or UC campus; it is not recommended for certain majors and colleges.

Completion of all the requirements in the IGETC will permit a student to transfer from a community college to a campus in either the California State University or University of California system without the need to take additional lower-division general education courses. Transfer students will receive certification for all of their lower division general education requirements only after completing all of the subject areas listed below with a "C" grade or better in each course.

### Area 1: ENGLISH COMMUNICATION

CSU: 3 courses required, one from each group below

UC: 2 courses required, one each from 1A and 1B

#### 1A – English Composition

One course of 3 semester/4 quarter units

ENGL 101

#### 1B –Critical Thinking and Composition

One course of 3 semester/4 quarter units

ENGL 201 or 201H, PHIL 110, 110H

#### 1C –Oral Communications: (CSU REQUIREMENT ONLY)

One course of 3 semesters/4 quarter units.

SPCH 100, 101, 101H, 120,140

### Area 2: MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING

One course: 3 semester/4 quarter units

MATH 130+, 130H+, 150, 160+, 170+, 180+, 190+, 190H, 191, 250, 251, 260, 270  
PSY 190+

+ Indicates that UC course credit may be limited. Please consult a counselor for additional information.

### Area 3: ARTS & HUMANITIES

At least 3 courses with at least one course from Arts and one course from Humanities - 9 semester/12 quarter units.

#### 3A: ARTS (3 units minimum):

ARCH 103  
ART 104, 105, 105H, 106, 106H, 107, 108, 109,  
110 112, 113, 115, 117  
DANC 179, 179H, 199, 199H  
GDSN 110  
MUS 129, 130, 131, 132, 133, 135, 136  
MUST 151, 152  
THTR 101, 105, 105H

**3B: HUMANITIES (3 units minimum):**

ANTH 104  
ASL 124, 201  
CHIN 102  
CHST 101, 146, 148, 148H  
ENGL 126  
FR 102, 201, 202  
HIST 101, 102, 122, 131, 143, 143H, 144, 144H,  
156, 157, 158, 159, 159H, 167, 170  
HUM 110, 111, 125, 125H, 130, 140, 145  
JAPN 102  
LIT 102, 102H, 112A, 112AH, 112B, 112BH, 114,  
114H 117, 117H, 130, 130H, 140, 140H, 141,  
141H, 142, 142H, 144A, 144AH, 144B, 144BH, 145,  
145H, 146A, 146AH, 146B, 146BH, 147, 147H, 148,  
148H, 149, 149H  
PHIL 101, 101H, 120, 122, 124, 126, 128, 128H,  
135, 140,  
POLS 128, 128H  
SPAN 102, 201, 201H, 202

**Area 4: SOCIAL & BEHAVIORAL SCIENCES**

Choose 2 courses from at least two disciplines - 6 semester/8 quarter units

AJ 101  
ANTH 102, 102H, 103, 104, 110, 115, 125  
CD 106, 208  
CHST 101, 146, 148, 148H, 150  
ECON 101, 101H, 102, 102H, 106, 135  
EGSS 110, 120, 130  
GEOG 102, 103  
HIST 101, 102, 122, 131, 143, 143H, 144, 144H,  
156, 157, 158, 159, 159H, 167, 170  
HUM 110, 111, 125, 125H, 130  
MSCM 128  
PHIL 128, 128H, 135  
POLS 110, 110H, 115, 125, 128, 128H, 130, 135,  
140, 150  
PSY 101, 101H, 112, 114, 200,  
SOC 101, 101H, 102, 105, 110, 114, 116, 120, 127,  
130  
SPCH 150

**Area 5: PHYSICAL & BIOLOGICAL SCIENCES**

At least 2 courses are required, one from 5A and 5B. One course must include a corresponding laboratory from 5A or 5B. Laboratory courses (5C) are noted with \* symbol (7-9 semester/9-11 quarter units.)

**5A: PHYSICAL SCIENCES (One course minimum):**

ASTR 110, 110H, 112\*, 137\*  
CHEM 110\*, 120\*, 130\*, 140\*, 230\*, 231\*  
GEOG 101, 101L\*  
GEOL 150, 151\*, 152, 152L\*  
PHY 120\*+, 150\*+, 160\*+, 211\*+, 212\*+, 213\*+

**5B: BIOLOGICAL SCIENCES (One course minimum):**

ANTH 101, 101H, 101L\*  
BIOL 101\*, 105, 105L\*, 111, 111L\*, 120, 120L\*,

200\*, 201\*, 206, 226\*  
PSY 210, 210H

**5C: LABORATORY ACTIVITY:** This requirement may be met by completing a lab course that corresponds to a lecture course found above in 5A or 5B with \*symbol. + Indicates that UC course credit may be limited. Please consult the catalog course description for additional information.

**Area 6: LANGUAGE OTHER THAN ENGLISH (UC REQUIREMENT ONLY)**

Proficiency equivalent to two years of high school study in the same language or at least 1 course from:

ASL 101, 102, 201  
CHIN 101, 102  
FR 101, 102, 201, 202  
JAPN 101, 102  
SPAN 101, 101S, 102, 102S, 201, 201H, 202

*(If using high school courses to fulfill this area, grades of "C-" are acceptable. Official transcripts must be on file in the Admissions and Records Office)*

**Area 7: ETHNIC STUDIES**

One course: 3 semester/4 quarter units

CHST 101  
EGSS 110

Students who start at Rio Hondo College beginning in Fall 2023 or later will be required to complete a course in Area 7.

**AMERICAN INSTITUTIONS REQUIREMENT**

CSU has an American Institutions graduation requirement that can be fulfilled by taking the following: 6 units: Choose one course from group 1 and one course from group 2.

1. POLS 110, 110H
2. HIST 143, 143H, 144, 144H, 156, 157, 158, 159, 159H, 170

**CERTIFICATION** – Río Hondo College will certify general education courses for the UC and CSU systems. Request for IGETC certification can be made on the Transcript Request Form with Admissions and Records. Only courses taken at U.S. regionally accredited institutions that meet the IGETC Standards will be certified in the appropriate areas. Official transcripts must be on file in the Admissions and Records Office. Courses taken at foreign institutions are not acceptable except for certification of proficiency in a language other than English. Partial Certification is permitted if the student has completed all but two courses in the pattern.

*For a complete listing of courses and their approval dates, students may visit [www.assist.org](http://www.assist.org).*

**Transferring to Independent Colleges & Universities**

For information regarding all transfer deadlines, students should consult with Río Hondo College counselors or the Transfer Center.

Although admission requirements vary and are listed in the catalogs of the various universities and colleges, students who transfer to independent colleges and universities are given credit for most, if not all, of their community college work. Most colleges and universities give full credit for general education courses and for most other courses designated by the community college as transferable.

Río Hondo College has developed articulation agreements with many private, independent, and out-of-state colleges and

universities. Transfer students who plan to attend a private college or university are encouraged to consult with a counselor to create their education plan. For information regarding deadlines and articulation agreements, students should visit the Transfer Center.

### **Transfer Web Sites**

Below are listed some of the web sites available to help students who wish to transfer.

- **Articulation:**

- <http://www.assist.org>

- <http://www.riohondo.edu/Counseling-Center/Articulation>

- **California Colleges:**

- <http://www.californiacolleges.edu>

- **California Independent Colleges and Universities:**

- <http://www.aiccu.edu>

- **California State University:**

- <http://www.calstate.edu/apply>

- **California Virtual College:**

- <http://www.cvc.edu/>

- **RHC Transfer Center:**

- <http://www.riohondo.edu/students/transfercenter>

- **University of California:**

- <http://www.universityofcalifornia.edu>

- **UC Transfer:**

- <http://uctransfer.universityofcalifornia.edu>



# 9 Degree & Certificate Programs

Can't find a program? Try our search feature in the upper right corner of this page.

## Río Hondo College Majors & Programs

<b>AA</b>	Associate of Arts Degree	<b>AS</b>	Associate of Science Degree
<b>AA-T</b>	Associate in Arts for Transfer Degree	<b>AS-T</b>	Associate in Science for Transfer Degree

Río Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Accounting			•		•
Accounting for Government and Non-Profit Organizations					•
Administration of Justice			•		•
Administration of Justice				•	
Advanced Engine Performance			•		•
Advanced Engine Performance-Technician					•
Alternative Energy Technology			•		•
Alternative Fuels & Advanced Transportation Technology			•		•
American Sign Language					•
Animation	•				
Anthropology		•			
Applied Geographic Information Systems			•		
Architecture			•		
Architectural Design and Drawing			•		
Architectural Design & Drawing-Technician					•
Architectural Drafting					•
Architectural Theory and Design					•
Art/Studio Arts	•	•			
Art History		•			
Associate Degree Nursing			•		
Automotive Technology			•		
Basic Fire Academy					•
Basic Police Academy					•
Biology			•	•	
Biotechnology					•
Brake and Suspension Service					•
Business Administration	•				
Business Administration 2.0				•	
Business Marketing			•		•
Carpentry – Concrete Forming			•		•
Carpentry – General			•		•
Carpentry – Scaffold Construction			•		•
Chemistry				•	
Chicana/o/x Studies	•				

Río Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Child Development			•		•
Civil Design Technician					•
Civil Design Technology			•		
Civil Drafting					•
Coaching of Sports					•
Communication Studies 2.0		•			
Community Health Worker					•
Computer Information Technology: Cloud Computing Practitioner					•
Computer Information Technology: Computer Systems			•		•
Computer Information Technology: Cybersecurity			•		•
Computer Information Technology: Cybersecurity Technician					•
Computer Information Technology: Ethical Hacker					•
Computer Information Technology: Information Systems and Technology			•		
Computer Information Technology: Network Administrator			•		•
Computer Information Technology: Network Technician					•
Computer Information Technology: System Administrator			•		•
Computer Science				•	
Computerized Accounting Systems					•
Construction Management			•		
Corrections			•		•
Creative Writing					•
Creative Writing: Novel Writing					•
Creative Writing: Playwriting and Screenwriting					•
Creative Writing: Poetry Writing					•
Creative Writing: Short Story Writing					•
Creative Writing: Writing for Children					•
CSU GE					•
Dance	•				•
Deaf Studies	•				
Diesel Fuel & Emission Systems					•
Drug Studies			•		•
Early Childhood Education				•	
Economics		•			
Electric Vehicle and Fuel Cell Technology Technician			•		•
Electronics Technology			•		•
Elementary Teacher Education		•			•
Engine Repair					•
Engineering			•		
Engineering Design Technology			•		•
Engineering Design Technology: CAD Specialist					•
Engineering Design Technology: Design and Production					•
Engineering Design Technology: Standards for Design					•
English and Literature	•				
English		•			
Entertainment Art – Digital Characters					•
Entertainment Art – Digital Environments					•
Entrepreneurial Graphic Design					•
Entry Network Technician					•
Environmental Science			•	•	
Environmental Technology			•		•
Field Technician					•
Film, Television, and Electronic Media				•	

Río Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Finance					•
Fire Technology			•		•
Fitness Specialist					•
Fitness and Sport Management					•
Foundations of Interpreting	•				
French					•
Fuel Injection Systems					•
General Automotive Service					•
General Service Technician					•
General Studies (Emphasis in Arts and Human Expression)	•				
General Studies (Emphasis in Science and Mathematics)			•		
General Studies (Emphasis in Social Behavior and Self-Development)	•				
General Studies (Emphasis in Social Sciences)	•				
Geographic Information Systems					•
Geology				•	
Graphic Art and Design	•				
Graphic Design			•		•
Graphic Design: Advertising Design					•
Graphic Design: Branding & Identity Design					•
Graphic Design: Packaging Design					•
Graphic Design: Publication Design					•
Graphic Design: Website Design					•
Health and Safety					•
Health, Safety, and Wellness					•
Health Science Preparation					•
Heat and Frost Insulators			•		•
Heavy Equipment Maintenance Technician					•
Heavy Equipment Technology			•		
Heavy Equipment Diesel Engines Technician					•
Heavy Equipment Electronics Technician					•
Heavy Equipment General Service Technician					•
Heavy Equipment Hydraulics Technician					•
Heavy Equipment Powertrains Technician					•
Heavy Equipment Service Technician					•
History		•			
Homeland Security			•		•
Homeland Security Planning and Administration					•
Honda Professional Career Training Program Specialization (PACT)			•		
Honda/Acura Heating and Air Conditioning Systems					•
Honda/Acura Brakes, Suspension, and Chassis Electrical					•
Honda/Acura Engine Repair and Engine Electrical Systems					•
Honda/Acura Power Train and Transmission Systems					•
Hospitality Management				•	
IGETC					•
Income Tax and Payroll					•
Infant/Toddler Specialization					•
Intercollegiate Athletic Competition					•
International Business			•		•
Investigations					•
Journalism		•			
Kinesiology		•			
Language and Literacy Specialization					•

Río Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Logistics Management			•		•
Management and Supervision			•		•
Mass Communications: Mass Media			•		•
Mass Communications: Print Media Specialization			•		•
Mat Pilates Instructor					•
Mathematics				•	
Music		•			
Music: Composition, Performance, and Improvisation of Contemporary Music Practices	•				
Music and Integrated Technology			•		
Music Technology: Advanced Electronic Music					•
Music Technology: Advanced Songwriting and Arranging					•
Music Technology: Advanced Sound Design					•
Music Technology: Introductory Electronic Music					•
Music Technology: Introductory Songwriting and Arranging					•
Music Technology: Introductory Sound Design					•
Music Technology: Live Sound Engineer					•
Music Technology: Music Composition					•
Music Technology: Music Production					•
Music Technology: Music Recording Engineer					•
Nutrition and Dietetics				•	
Orthopedic Technician Program					•
Parole					•
Peak Performance for Sport					•
Philosophy		•			
Photography	•				
Physics				•	
Police Academy Module I					•
Political Science		•			
Preschool Teacher					•
Psychology		•			
Residential Architecture Design					•
Retail Management					•
Safety, Comfort and Convenience Systems					•
Small Business Management			•		•
Social Justice Studies		•			
Social Justice Studies with an Emphasis in LGBTQ		•			
Social Services Assistant			•		•
Social Work and Human Services		•			
Sociology		•			
Spanish		•			•
Special Education Specialization					•
Sport Leadership					•
Sport Studies					•
Sports Medicine			•		
Strength and Performance Coach					•
Studio Arts for Transfer		•			
Surveying, Mapping & Drawing					•
Technical Drawing					•
Tesla Student Automotive Technician (START)					•
Theatre Arts			•		
Theatre Arts		•			

Río Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Transmission Service					•
Vocational Nursing			•		•
Waste Management					•
Water Management					•
Welding Technology			•		
Welding Technology: LADBS Structural Steel Certification Program					•
Welding Technology: Pipe Welding and Fabrication					•
Wildland Fire Technology			•		•
Yoga Teacher Training Certification					•

Río Hondo College Program of Study	Skill Proficiency Certificate	Career Certificate
Athletic Trainer's Aide		•
Basic Police Training		•
Certified Nurse Assistant Acute Care		•
Desktop Technician		•
Emergency Medical Technician	•	
Game Development	•	
Home Health Aide		•
Income Tax Preparer	•	
Nurse Assistant Pre-Certification Training Course		•
PC Repair Technician		•

***Skill Proficiency and Career Certificates are Division issued certificates only and are not listed on a student's transcript.***



## ACCOUNTING

### Associate of Science Degree

#### Description

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The **Associate of Science Degree in Accounting**, prepares students for employment and advancement opportunities in business and industry such as financial institutions, hospitals, manufacturing and construction companies, wholesale and retail companies, transportation, utilities, educational institutions, all levels of government and the military. Entry-level employment opportunities include positions in general bookkeeping, accounts receivable/payable, payroll, income tax preparation, cost accounting and auditing. Accounting Majors intending to obtain a bachelor's degree in Accounting should refer to the Business Administration transfer curriculum.

To acquire the **Associate of Science Degree in Accounting**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>	<b>Units: 29-29.5</b>
ACCT 101      Financial Accounting	4
OR	
ACCT 101H      Financial Accounting Honors*	4
ACCT 102      Managerial Accounting*	4
OR	
ACCT 102H      Managerial Accounting Honors*	4
ACCT 103      Payroll Accounting	3
ACCT 106      Computerized Accounting	3
ACCT 203      Introduction to Cost Accounting*	3
BUSL 110      Legal Environment of Business	3
CIT 117      Microsoft® Excel®	3
MGMT 101      Introduction to Business	3
ENGL 101      College Composition and Research*	3.5
OR	
MGMT 108      Business Writing	3
 <b>Choose a minimum of 6 units from the following:</b>	 <b>Units: 6</b>
ACCT 104      Introduction to Governmental and Not-For-Profit Accounting*	3
ACCT 105      Income Tax Accounting	4
ACCT 107      Accounting Ethics	3
ACCT 108      Volunteer Income Tax Assistance Program I	1
ACCT 109      Volunteer Income Tax Assistance Program II*	1
ACCT 110      Excel for Business and Accounting*	1
ACCT 290      Cooperative Work Experience/Internship for Accounting Related Fields	1-4
FIN 101      Introduction to Financial Planning*	3

\*Prerequisite

Total: 35-35.5

## ACCOUNTING

### Certificate of Achievement

#### Description

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The certificate curriculum in Accounting prepares students for employment and advancement opportunities in business and industry such as financial institutions, hospitals, manufacturing and construction companies, wholesale and retail companies, transportation, utilities, educational institutions, all levels of government and the military. Entry-level employment

opportunities include positions in general bookkeeping, accounts receivable/payable, payroll, income tax preparation, cost accounting and auditing. Accounting Majors intending to obtain a bachelor's degree in Accounting should refer to the Business Administration transfer curriculum.

To acquire the **Certificate of Achievement in Accounting**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 29-29.5</b>
ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ACCT 102	Managerial Accounting*	4
OR		
ACCT 102H	Managerial Accounting Honors*	4
ACCT 103	Payroll Accounting	3
ACCT 106	Computerized Accounting	3
ACCT 203	Introduction to Cost Accounting*	3
BUSL 110	Legal Environment of Business	3
CIT 117	Microsoft® Excel®	3
MGMT 101	Introduction to Business	3
ENGL 101	College Composition and Research*	3.5
OR		
MGMT 108	Business Writing	3

<b>Choose a minimum of 6 units from the following:</b>		<b>Units: 6</b>
ACCT 104	Introduction to Governmental and Not-For-Profit Accounting*	3
ACCT 105	Income Tax Accounting	4
ACCT 107	Accounting Ethics	3
ACCT 108	Volunteer Income Tax Assistance Program I	1
ACCT 109	Volunteer Income Tax Assistance Program II*	1
ACCT 110	Excel for Business and Accounting*	1
ACCT 290	Cooperative Work Experience/Internship for Accounting Related Fields	1-4
FIN 101	Introduction to Financial Planning*	3

\*Prerequisite

Total: 35-35.5

## **ACCOUNTING FOR GOVERNMENT AND NONPROFIT ORGANIZATIONS**

### **Certificate of Achievement**

#### **Description**

This program is designed for individuals desiring employment in government or not-for-profit organizations. Upon successful completion of the certificate, candidates will be proficient in fund and not-for-profit accounting and possess the ability to perform basic accounting functions in a government and/or not-for-profit organization.

To acquire the **Certificate of Achievement in Accounting for Government and Nonprofit Organizations**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 16-16.5</b>
ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ACCT 103	Payroll Accounting	3
ACCT 104	Introduction to Governmental and Not-For-Profit Accounting*	3
ACCT 106	Computerized Accounting	3
MGMT 108	Business Writing	3
OR		

ENGL 101 College Composition and Research\*

3.5

\*Prerequisite

Total: 16-16.5

## ACCOUNTING/COMPUTERIZED ACCOUNTING SYSTEMS Certificate of Achievement

### Description

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This program is designed to provide students with basic accounting skills and knowledge necessary to obtain entry-level accounting and other accounting support positions in small and medium-sized businesses which use computerized accounting systems. It will prepare students for advancement opportunities in the field of accounting.

To acquire the **Certificate of Achievement in Computerized Accounting Systems**, it is necessary to complete the following courses:

#### Required Courses

**Units: 16-16.5**

ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
CIT 117	Microsoft® Excel®	3
MGMT 108	Business Writing	3
OR		
MGMT 208	Business Communications*	3
OR		
ENGL 101	College Composition and Research*	3.5
ACCT 106	Computerized Accounting	3
ACCT 103	Payroll Accounting	3

Total: 16-16.5

## ACCOUNTING/INCOME TAX PREPARER Certificate of Skill Proficiency

### Description

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This certificate is designed for individuals desiring to enter the tax preparation field with a minimum of course requirements. Upon successful completion of this certificate, students will possess the knowledge and practical experience necessary to prepare personal income taxes effectively. By completing the tax course, students will receive the qualifying education required by the California Tax Education Council to become a California Registered Tax Preparer.

#### Required Courses

**Units: 6**

ACCT 105	Income Tax Accounting	4
ACCT 108	Volunteer Income Tax Assistance Program I	1
ACCT 109	Volunteer Income Tax Assistance Program II*	1

\*Prerequisite

Total: 6



## ADMINISTRATION OF JUSTICE Associate in Science for Transfer

### Description

The **Associate in Science in Administration of Justice for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Criminal Justice majors (or similar majors) at a CSU campus that offers a Criminal Justice baccalaureate degree.

This degree is designed for students interested in an introduction to the field of Administration of Justice and for students looking to further their understanding of the criminal justice system in America (police, courts, and corrections) and familiarize students with academic, career and volunteer opportunities in the field. These courses will provide students with a solid foundation in Administration of Justice that will serve them for either transferring or in the workplace.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Administration of Justice:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Administration of Justice major at the CSU where they seek transfer.

#### Required Courses Units: 6

AJ 101	Introduction to Administration of Justice	3
AJ 106	Criminal Law I*	3

#### Choose two courses from the following list: Units: 6

AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues Within Public Service	3
AJ 207	Juvenile Law and Procedure	3
AJ 208	Principles of Investigation	3

#### Choose two courses from the following list: (Any course not used above) Units: 6-7

AJ 107	Criminal Law II*	3
AJ 275	Introduction to Forensic Science	3
CORR 101	Introduction to Corrections	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3

**CSU GE or IGETC Pattern (Units will vary)**

Transferable Electives as needed to reach 60 transferable units

DEGREE TOTAL 60 units

\*Prerequisite

Total: 18-19

## ADMINISTRATION OF JUSTICE Associate of Science Degree

### Description

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Students desiring careers in law enforcement may elect a program from Administration of Justice. This program is designed to be transferable or job-oriented, depending on student need. Students seeking careers in corrections, probation and parole should specialize in the corrections option. Some of these areas require a four-year degree. Students seeking employment with a local, state or federal law enforcement agency should specialize in Administration of Justice. Every student should seek counseling with the assigned member of the Counseling staff in order to develop a comprehensive course of study within his/her career choice. It is highly recommended that the Administration of Justice student take Introduction to Administration of Justice before advancing to the next courses. This provides a foundation of basic understanding of the Criminal Justice System. The student is now prepared for a study of courses in the Administration of Justice.

To acquire the **Associate of Science Degree in Administration of Justice**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

### Required Courses

Units: 18

AJ 101	Introduction to Administration of Justice	3
AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues Within Public Service	3
AJ 106	Criminal Law I*	3
AJ 107	Criminal Law II*	3

\*Prerequisite

### Plus 6 units from the following courses:

Units: 6

GIS 281	Crime Mapping and Analysis	4
Administration of Justice Courses (Subject Titles & Units will vary)		
Corrections Courses (Subject Titles & Units will vary)		
Police Academy Courses (Subject Titles & Units will vary)		

Total: 24

## ADMINISTRATION OF JUSTICE Certificate of Achievement

### Description

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The **Administration of Justice Certificate of Achievement** is designed to prepare students to meet the needs of entry level positions in the broad field of law enforcement and security career fields. The curriculum will prepare students with a foundation in Administration of Justice/Law Enforcement and provide them with the knowledge to enter varied career areas. The skills developed during class will enhance the student's knowledge in the area of the criminal justice system as well as an



in-depth understanding of law enforcement, criminal law and procedures, forensic evidence examination and the judicial process.

To acquire the **Certificate of Achievement in Administration of Justice**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 12</b>
AJ 101	Introduction to Administration of Justice	3
AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues Within Public Service	3
		Total: 12

## **ADMINISTRATION OF JUSTICE/INVESTIGATIONS Certificate of Achievement**

### **Description**

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The **Administration of Justice Certificate of Achievement in Investigations** is designed to prepare students to meet the needs of entry-level positions in the broad fields of law enforcement and security. The curriculum prepares students with a foundation in administration of justice/law enforcement and provides them with the knowledge to enter varied career areas. The skills developed in class will enhance the students' knowledge in the area of the criminal justice system and provide an in-depth understanding of law enforcement, criminal law and procedures, investigations, forensic evidence examination, and the judicial process.

To acquire the **Certificate of Achievement in Investigations**, it is necessary to complete the following courses:

<b>Required Course</b>		<b>Units: 12</b>
AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 208	Principles of Investigation	3
AJ 275	Introduction to Forensic Science	3
		Total: 12

## **ADMINISTRATION OF JUSTICE/PAROLE Certificate of Achievement**

### **Description**

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The **Administration of Justice Certificate of Achievement in Parole** is designed to prepare students to meet the needs of entry-level positions in the fields of corrections and parole. The curriculum prepares students with a foundation in administration of justice/law enforcement and provides them with the knowledge to enter various career areas. The skills developed in classes enhance students' knowledge in the area of the criminal justice parole system.

To acquire the **Certificate of Achievement in Parole**, it is necessary to complete the following courses:

<b>Required courses</b>		<b>Units: 12</b>
AJ 041	Effective Written Communication for Public Service Personnel	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues Within Public Service	3
AJ 208	Principles of Investigation	3
		Total: 12

## ALTERNATIVE ENERGY TECHNOLOGY Associate of Science Degree

### Description

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The courses listed in the Associate of Science Degree are designed to prepare an individual for entry-level employment within the alternative energy industry as an integrator, designer, or as a maintenance or repair worker. This Degree is designed to increase the number of students earning an Associate degree from Rio Hondo and to guide students along a path to transfer and promotion that is both efficient and sufficient for their continued academic success.

To acquire the **Associate of Science Degree in Alternative Energy Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 34
AET 120	3
OR	
ET 120	3
AET 121	3
OR	
ET 121	3
AET 122	3
OR	
ET 122	3
AET 123	3
OR	
ET 123	3
AET 124	3
OR	
ET 124	3
AET 181	3
OR	
ET 181	3
OR	
AET 182	3
OR	
ET 182	3
AET 280	3
OR	
ET 280	3
ARCH 110	3
ELEC 050	2
GIS 120	4
TCED 054	4

\*Prerequisite

Total: 34

## ALTERNATIVE ENERGY TECHNOLOGY Certificate of Achievement

### Description

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The courses listed in this certificate compile a comprehensive list of job-related skills needed to acquire Alternative Energy technical skills. The skills acquired during class will prepare an individual for entry-level employment as an Alternative Energy Technician that may find employment as an installer, designer or as a maintenance and/or repair worker.

To acquire the **Certificate of Achievement in Alternative Energy Technology**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 16</b>
AET 120	Introduction to Alternative Energy Technology (Same as ET 120)	3
OR		
ET 120	Introduction to Alternative Energy Technology (Same as AET 120)	3
AET 121	Photovoltaic Systems Design and Installation (Same as ET 121)	3
OR		
ET 121	Photovoltaic Systems Design and Installation (Same as AET 121)	3
AET 122	Advanced Photovoltaic Systems Design and Installation (Same as ET 122)*	3
OR		
ET 122	Advanced Photovoltaic Systems Design and Installation (Same as AET 122)*	3
AET 123	Wind Energy Systems Design and Installation (Same as ET 123)	3
OR		
ET 123	Wind Energy Systems Design and Installation (Same as AET 123)	3
ET 124	Advanced Wind Energy Systems Design and Installation (Same as AET 124)*	3
OR		
ET 124	Advanced Wind Energy Systems Design and Installation (Same as AET 124)*	3
TCED 044	OSHA 10 for the Workplace	1

\*Prerequisite

Total: 16

## **AMERICAN SIGN LANGUAGE Certificate of Achievement**

### **Description**

The **Certificate of Achievement in American Sign Language** is designed to provide students with a strong foundation in communication through American Sign Language (ASL). This certificate is intended for students pursuing other degrees of careers not directly related to Deaf people or ASL but who still want to learn the language. With this certificate, the student can petition their employer for any benefits that may be available for those who have skills in ASL.

Students who successfully complete the certificate will be able to communicate competently in ASL on topics related to their profession. While students will not be able to act as an interpreter, they will be able to communicate directly with clients, customers, coworkers, or community members without the need for interpretation. Students will also have spent time within the Deaf community and will be familiar with where and how to locate social events related to the Deaf community and Deaf culture.

To acquire the **Certificate of Achievement in American Sign Language**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 18</b>
ASL 101	American Sign Language I	4.5
ASL 102	American Sign Language II*	4.5
ASL 201	American Sign Language III*	4.5
ASL 202	American Sign Language IV*	4.5

\*Prerequisite

Total: 18

## AMERICAN SIGN LANGUAGE/DEAF STUDIES

### Associate of Arts Degree

#### Description

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The **Associate of Arts Degree in Deaf Studies** is a foundational degree for those wishing to obtain mastery of American Sign Language (ASL). By completion of specific General Education courses, this program fulfills many of the requirements and foundation courses for transfer to baccalaureate Deaf Studies majors.

American Sign Language skills can be applied immediately to career choices in the fields of education, nursing, counseling, film, or any other area Deaf people live and work. Students can further their careers by pursuing degrees in Deaf education to be credentialed teachers to Deaf and Hard of Hearing (DHH) students. Students may also pursue a career in ASL pedagogy, to teach ASL in a secondary or post-secondary educational setting.

To acquire the **Associate of Arts Degree in Deaf Studies**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 32</b>
ASL 101	American Sign Language I	4.5
ASL 102	American Sign Language II*	4.5
ASL 201	American Sign Language III*	4.5
ASL 202	American Sign Language IV*	4.5
ASL 120	Introduction to Deaf Studies*	3
ASL 124	Deaf Culture*	3
ASL 250	ASL Linguistics*	3
ASL 270	ASL Literature*	3
ASL 280	ASL Storytelling*	2

\*Prerequisite

Total: 32

## AMERICAN SIGN LANGUAGE/FOUNDATIONS OF INTERPRETING

### Associate of Arts Degree

#### Description

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The **Associate of Arts Degree in Foundations of Interpreting** will prepare students interested in laying a foundation for further study and for a baccalaureate degree in American Sign Language (ASL) Interpreting from a four-year college or university.

With a degree in interpreting, students will be prepared for employment anywhere Deaf people are present. This includes a range of possibilities from potentially interpreting for the President of the United States of America to guiding a kindergarten student on coloring inside the lines. In addition to acquiring entry level skills in the process of interpreting, students will learn important business and ethical practices. By completion of specific General Education courses, this program fulfills many of the requirements and foundation courses for transfer to baccalaureate in Sign Language Interpreting majors.

To acquire the **Associate of Arts Degree in Foundations of Interpreting**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 32</b>
ASL 101	American Sign Language I	4.5
ASL 102	American Sign Language II*	4.5
ASL 201	American Sign Language III*	4.5

ASL 202	American Sign Language IV*	4.5
ASL 124	Deaf Culture*	3
ASL 211	Beginning Interpreting + Ethics 1*	3
ASL 212	Beginning Interpreting + Ethics 2*	3
ASL 220	Pathways to Interpreting Careers*	2
ENGL 127	Language Structure and Language Use: Introduction to Linguistics*	3
OR		
ENGL 127H	Language Structure and Language Use: Introduction to Linguistics Honors*	3

\*Prerequisite

Total: 32

## ANIMATION Associate of Arts Degree

### Description

This Degree is recommended for those who are interested in the field of Entertainment Art and Animation. Students are advised to check with the Counseling Department for the courses accepted into the Animation major at the four-year institutions where they seek transfer.

To acquire the **Associate of Arts Degree in Animation**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses

**Units: 23**

ANIM 101	Introduction to Digital 3-D Animation	4
ANIM 105	Principles of 3-D Digital Animation	4
ART 105	Survey of Western Art: Prehistory through the Middle Ages	3
OR		
ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors*	3
ART 106	Survey of Western Art: Renaissance to Contemporary	3
OR		
ART 106H	Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 130	Freehand Drawing I	3

#### Choose one course from the list below

**Units: 3-4**

ANIM 110	Digital Character Animation	4
ANIM 120	Lighting and Rendering	4
ANIM 130	Modeling for Games	4
ART 170	Introduction to Digital Painting	3
ART 260	Figure Drawing for Animators*	3

\*Prerequisite

Total: 26-27



# ANIMATION/ENTERTAINMENT ART-DIGITAL CHARACTERS

## Certificate of Achievement

### Description

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Entertainment Art students work in a collaborative environment on project based assignments that revolve around creativity and innovation. Students are taught the skills they will need in order to create amazing artwork using the latest digital tools. The curriculum centers on the current production techniques used in designing the visual components found in games, apps, feature films and the web. From the fundamentals of 2D visual development through the pipeline for creating a finished 3D piece, students are guided by industry professionals. Entertainment Art students finish their training with portfolios full of intriguing and elaborate digital characters.

To acquire the **Certificate of Achievement in Entertainment Art-Digital Characters**, it is necessary to complete the following courses:

Required Courses		Units: 22
ANIM 110	Digital Character Animation	4
ANIM 130	Modeling for Games	4
ANIM 133	Character Design	4
ANIM 140	Entertainment Art Portfolio*	4
ART 170	Introduction to Digital Painting*	3
ART 260	Figure Drawing for Animators*	3

\*Prerequisite

Total: 22

# ANIMATION/ENTERTAINMENT ART-DIGITAL ENVIRONMENTS

## Certificate of Achievement

### Description

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Entertainment Art students work in a collaborative environment on project based assignments that revolve around creativity and innovation. Students are taught the skills they will need in order to create amazing artwork using the latest digital tools. The curriculum centers on the current production techniques used in designing the visual components found in games, apps, feature films and the web. From the fundamentals of 2D visual development through the pipeline for creating a finished 3D piece students are guided by industry professionals. Entertainment Art students finish their training with portfolios full of captivating digital environments, vehicles and props.

To acquire the **Certificate of Achievement in Entertainment Art-Digital Environments**, it is necessary to complete the following courses:

Required Courses		Units: 19
ANIM 130	Modeling for Games	4
ANIM 134	Mech and Vehicle Design	4
ANIM 135	Environment Design	4
ANIM 140	Entertainment Art Portfolio*	4
ART 170	Introduction to Digital Painting*	3

\*Prerequisite

Total: 19

## ANIMATION/GAME DEVELOPMENT Certificate of Skill Proficiency

### Description

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The **Game Development certificate** is designed to provide students with the technical, creative and artistic skill sets necessary to create industry standard game art.

#### Required Courses

**Units: 15**

ANIM 101	Introduction to Digital 3-D Animation	4
ANIM 120	Lighting and Rendering	4
ANIM 130	Modeling for Games	4
GDSN 178	Digital Imaging Design	3

Total: 15



## ANTHROPOLOGY Associate in Arts for Transfer

### Description

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The **Associate in Arts in Anthropology for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Anthropology majors (or similar majors) at a CSU campus that offers an Anthropology baccalaureate degree. This degree focuses on the critical analysis of human beings from both a cultural and biological perspective. The diversity of humans is investigated through a time cross-culturally in terms of their behavioral adaptations as well as using the framework of evolution to understand biological adaptation. Students will gain a basic understanding of the various fields and sub-fields of the discipline of Anthropology through their elective choices.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Anthropology:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Anthropology major at the CSU where they seek transfer.

#### Required Courses

**Units: 13**

ANTH 101	Introduction to Physical Anthropology	3
OR		
ANTH 101H	Introduction to Physical Anthropology Honors*	3
ANTH 101L	Physical Anthropology Lab*	1
ANTH 102	Introduction to Cultural Anthropology	3
OR		
ANTH 102H	Introduction to Cultural Anthropology Honors*	3

ANTH 103	Introduction to Archaeology	3
ANTH 104	Introduction to Language and Culture	3
<b>Choose one course from the following:</b>		<b>Units: 3-4</b>
ANTH 110	Gender and Sexuality	3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural	3
PSY 200	Research Methods in Psychology*	3
GEOL 150	Physical Geology	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4
<b>Choose one course from the following</b>		<b>Units: 3-4</b>
ANTH 110	Gender and Sexuality	3
ANTH 115	Introduction to Medical Anthropology	3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3
OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors *	3
GEOG 102	Introduction to Cultural Geography	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
<b>CSU GE or IGETC Pattern (Units will vary)</b>		
<b>Transferable Electives as needed to reach 60 transferable units</b>		
<b>DEGREE TOTAL 60 units</b>		

\*Prerequisite

Total: 19-21

## **ARCHITECTURAL DESIGN AND DRAWING**

### **Associate of Science Degree**

#### **Description**

This major provides a focused course of study for students in preparation for careers as designers of architectural projects and potential licensure as architects. Emphasis is placed on project visualization, industry-standard drawing techniques and conventions, computer-aided drafting (CAD) skills, and the specific preparation of architectural building plans. Additionally, the integral coursework includes a focus on the official code requirements necessary for residential and commercial building projects. The curriculum also includes introductory coursework in the associated fields of project engineering and construction.

As a degree (in contrast to a certificate), this program requires the completion of general education courses; however, if transfer to a university for a baccalaureate or advanced degree is desired, interested students should carefully consider the specific admission and transfer requirements for individual colleges and universities. This program is not designed to fulfill the

most common requirements for transfer to a university in architecture; please refer to the Associate of Science Degree in Architecture for such preparation.

To acquire the **Associate of Science Degree in Architectural Design and Drawing**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College general education and proficiency, California State University General Education Breadth (CSU GE-Breadth), or Intersegmental General Education Transfer Curriculum (IGETC) requirements.

<b>Required Courses:</b>		<b>Units: 28</b>
ARCH 110	Construction Document Reading and Estimating	3
ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
ARCH 125	Residential Architecture: Design & Construction*	4
ARCH 225	Commercial Architecture: Design and Construction*	4
CIV 140	Civil Engineering & Construction Fundamentals	4
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4
<b>Choose a minimum of 3 units from the following:</b>		<b>Units: 3-4</b>
ARCH 215	Architectural Perspective and Rendering*	4
ARCH 260	Residential Architecture Using Revit and 3D Software*	4
ARCH 280	Advanced MicroStation for CADD & BIM Applications (Same as ENGT 280)*	4
ARCH 290	Cooperative Work Experience / Internship for Architecture Related Fields	1-4
ARCH 299	Directed Study in Architecture Design & Drawing**	1-3

\*Prerequisite

\*\*minimum GPA requirements or instructor approval

Total: 31-32

## **ARCHITECTURAL DESIGN AND DRAWING TECHNICIAN**

### **Certificate of Achievement**

#### **Description**

This certificate of achievement provides a focused course of study for students in preparation for careers as designers of architectural projects and potential licensure as architects. Emphasis is placed on project visualization, industry-standard drawing techniques and conventions, computer-aided drafting (CAD) skills, and the specific preparation of architectural building plans. Additionally, the integral coursework includes a focus on the official code requirements necessary for residential and commercial building projects. The curriculum also includes introductory coursework in associated fields of project engineering and construction.

To acquire the **Certificate of Achievement in Architectural Design and Drawing Technician**, it is necessary to complete the following courses:

<b>Required Courses:</b>		<b>Units: 28</b>
ARCH 110	Construction Document Reading and Estimating	3
ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
ARCH 125	Residential Architecture: Design & Construction*	4
ARCH 225	Commercial Architecture: Design and Construction*	4
CIV 140	Civil Engineering & Construction Fundamentals	4
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		

ENGT 170	MicroStation for Basic CADD Applications	4
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**Choose a minimum of 3 units from the following:**

**Units: 3-4**

ARCH 215	Architectural Perspective and Rendering*	4
ARCH 260	Residential Architecture Using Revit and 3D Software*	4
ARCH 280	Advanced MicroStation for CADD & BIM Applications (Same as ENGT 280)*	4
ARCH 290	Cooperative Work Experience / Internship for Architecture Related Fields	1-4
ARCH 299	Directed Study in Architecture Design & Drawing**	1-3

\*Prerequisite

\*\*minimum GPA requirements or instructor approval

Total: 31-32

## ARCHITECTURAL DRAFTING Certificate of Achievement

### Description

This certificate of achievement provides a focused course of study for students in preparation for careers as drafters in support of architectural projects. Emphasis is placed on visualization of three-dimensional objects and the methods and techniques to express buildings and similar objects on two-dimensional media. Drafting basics are addressed, including linework, dimensioning, and symbology in the context of appropriate industry standards. The coursework includes the preparation of architectural building plans as required for project approval and construction. The use of computer-aided drafting (CAD) software and state-of-the-art building modeling software is an integral component to the certificate.

To acquire the **Certificate of Achievement in Architectural Drafting**, it is necessary to complete the following courses:

**Required Courses:**

**Units: 15**

ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
ARCH 260	Residential Architecture Using Revit and 3D Software*	4
OR		
ARCH 280	Advanced MicroStation for CADD & BIM Applications (Same as ENGT 280)*	4
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4

\*Prerequisite

**Choose a minimum of 1 unit from the following:**

**Units: 1-4**

ARCH 290	Cooperative Work Experience / Internship for Architecture Related Fields	1-4
ARCH 299	Directed Study in Architecture Design & Drawing***	1-3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2

\*\*\*minimum GPA requirements or instructor approval

Total: 16-19



# ARCHITECTURAL THEORY AND DESIGN

## Certificate of Achievement

### Description

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This certificate of achievement provides a focused course of study for students in preparation for careers in the field of architecture. Emphasis is placed on the aesthetics of architectural design work along with visualization of three-dimensional objects, and the methods and techniques to express buildings and similar objects on two-dimensional media. Concepts of sketching and perspective as well as the use of color, texture, and materials are incorporated into design. Historical styles and the application of styles in design elements are also part of the curriculum. The use of computer-aided drafting (CAD)/modeling software is an integral component to the certificate, alongside traditional tools for artistic expression. Coursework involves the preparation of projects and models accomplished within a design lab environment as experienced in higher levels of architectural education and in common workplace conditions.

To acquire the **Certificate of Achievement in Architectural Theory and Design**, it is necessary to complete the following courses:

Required Courses:		Units: 16
ARCH 215	Architectural Perspective and Rendering*	4
ARCH 235	Architectural Design Studio*	4
ARCH 236	Architectural Design Studio II*	4
ENGT 200	Intermediate CAD Modeling for Design & Production*	4

\*Prerequisite

Total: 16

## ARCHITECTURE

### Associate of Science Degree

### Description

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This program leads to the **Associate of Science Degree in Architecture** for university transfer to architecture programs, advanced tech prep placement, as well as employment in architectural firms, the architectural/engineering/construction (AEC) and design industries, and public works/utilities. The program includes applications such as building information modeling (BIM), computer-assisted design and drafting (CADD), Leadership in Energy and Environmental Design (LEED), 3D printing, and traditional drafting methods and standards. In completing specific General Education courses, this program fulfills many of the requirements and foundational courses for transfer to baccalaureate-granting institutions and architecture-related majors, but does not fulfill all transfer requirements for specific baccalaureate degree programs.

To acquire the **Associate of Science Degree in Architecture**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units: 33
ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
ARCH 125	Residential Architecture: Design & Construction*	4
ARCH 215	Architectural Perspective and Rendering*	4
ARCH 225	Commercial Architecture: Design and Construction*	4
ARCH 235	Architectural Design Studio*	4
ARCH 260	Residential Architecture Using Revit and 3D Software*	4
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2
ENGT 150	AutoCAD for Basic CADD Applications	4

Select one course from the following:

Units: 4

ARCH 236	Architectural Design Studio II*	4
ARCH 261	Commercial Architecture Using Revit with Structural and MEP Applications*	4

\*Prerequisite

Total: 37

## ARCHITECTURE/RESIDENTIAL ARCHITECTURE DESIGN Certificate of Achievement

### Description

This certificate of achievement provides a focused course of study for students in preparation for careers as licensed architects or designers, with a focus on single-family homes or duplexes. Emphasis is placed on drafting basics including linework, dimensioning, and symbology in the context of appropriate industry standards, and with the use of computer-aided drafting (CAD) software. Course instruction regarding the requirements of current building codes and how they affect residential design is an integral component to the certificate.

To acquire the **Certificate of Achievement in Residential Architecture Design**, it is necessary to complete the following courses:

<b>Required Courses:</b>		<b>Units: 15</b>
ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
ARCH 125	Residential Architecture: Design & Construction*	4
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4

\*Prerequisite

<b>Choose a minimum of 1 unit from the following:</b>		<b>Units: 1-4</b>
ARCH 290	Cooperative Work Experience / Internship for Architecture Related Fields	1-4
ARCH 299	Directed Study in Architecture Design & Drawing**	1-3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2

\*\*minimum GPA requirements or instructor approval

Total: 16-19



## ART HISTORY Associate in Arts for Transfer

### Description

The **Associate in Arts in Art History for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Art History majors or Art majors with a concentration in Art History (or similar majors) at a CSU campus that offers an Art or Art History baccalaureate degree. This degree is designed for students interested in an introduction to the discipline and methodologies of art history. The coursework will provide students with an understanding of the artistic contributions of diverse cultures and regions throughout time, of the relationship between works of art and the contexts in which they were produced, and of the ways in which works of art communicate ideas and meaning visually. Students will examine theories of

interpretation and iconography, along with issues of patronage, provenance, and conservation/ restoration. Students will gain critical thinking skills and a foundational knowledge of art history that will prepare them for transfer to four-year institutions and for arts and humanities-related careers.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Art History:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Art History major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 9</b>
ART 105	Survey of Western Art: Prehistory through the Middle Ages	3
OR		
ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors*	3
ART 106	Survey of Western Art: Renaissance to Contemporary	3
OR		
ART 106H	Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 130	Freehand Drawing I	3

\*Prerequisite

<b>Choose one non-Western art history course from the following list (3 units)</b>		<b>Units: 3</b>
ART 104	Art of the Ancient Americas	3
ART 107	The Art of Asia	3
ART 108	The Art of Mexico	3

<b>Choose one studio art course from the following list (3 units):</b>		<b>Units: 3</b>
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 135	Beginning Painting	3
ART 140	Ceramics I	3
ART 230	Beginning Life Drawing*	3
PHTO 130	Beginning Photography	3

<b>Choose one course from the following list (3 units):</b>		<b>Units: 3</b>
ART 109	History of American Art	3
ART 112	Visual Art in the Modern Era	3
ART 113	The History of Photography	3
ART 115	The Art of Film	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

Total: 18



## ART/STUDIO ARTS Associate in Arts for Transfer

### Description

The **Associate in Arts in Studio Arts for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Studio Arts majors (or similar majors) at a CSU campus that offers a Studio Arts baccalaureate degree.

Students who earn an AA-T in Studio Arts demonstrate knowledge and skill in areas including drawing, painting, ceramics, printmaking, photography, or digital media. Foundational skills and knowledge of the studio arts are the springboard for an array of careers including professional artist, illustrator, layout artist, graphic designer, animator, advertising artist, art director, art critic, art educator, art therapist, gallery and museum curator, gallery assistant, and art restorer. The CSU campuses offer a wide range of specialized bachelor's degrees, including each of the studio arts as well as art education, art history, photography, digital arts and multimedia, graphic design, and arts technology.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Studio Arts:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Art major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 12</b>
ART 106	Survey of Western Art: Renaissance to Contemporary	3
OR		
ART 106H	Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 130	Freehand Drawing I	3
<b>Choose one course, 3 units, from the following list:</b>		<b>Units: 3</b>
ART 105	Survey of Western Art: Prehistory through the Middle Ages	3
OR		
ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors*	3
ART 107	The Art of Asia	3
ART 108	The Art of Mexico	3
<b>Select one course from any three of the following areas for a total of 9 units:</b>		<b>Units: 9</b>
<b>DRAWING</b>		
ART 131	Freehand Drawing II*	3
OR		
ART 230	Beginning Life Drawing*	3

**PAINTING**

ART 135	Beginning Painting	3
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**PRINTMAKING**

ART 150	Beginning Printmaking	3
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**CERAMICS**

ART 140	Ceramics I	3
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**SCULPTURE**

ART 146	Introduction to Sculpture*	3
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**DIGITAL ART**

ART 170	Introduction to Digital Painting	3
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OR

GDSN 178	Digital Imaging Design	3
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**PHOTOGRAPHY**

PHTO 110	Introduction to Digital Photography	3
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OR

PHTO 130	Beginning Photography	3
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**COLOR**

ART 124	Color Theory	3
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**Other (second semester courses)**

ART 136	Intermediate Painting*	3
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OR

ART 141	Ceramics II*	3
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OR

ART 231	Intermediate Life Drawing*	3
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OR

ART 260	Figure Drawing for Animators*	3
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**CSU GE or IGETC Pattern (Units will vary)****Transferable Electives as needed to reach 60 transferable units****DEGREE TOTAL 60 units**

\*Prerequisite

Total: 24

## ART/STUDIO ARTS Associate of Arts Degree

### Description

This curriculum leads to an **Associate in Arts Degree in Studio Arts**. It is designed to prepare students and artists in the development of skills for possible careers in different fields of the Fine Arts, including Painting, Ceramics, Printmaking, Sculpture, and Gallery presentation. This program is good preparation for portfolio development and advancement for transfer to four-year public or private universities and art schools. Students are advised to complete the required studio courses in the order listed, before choosing the additional four electives. Students intending to transfer to a four-year university or art school should check the required courses necessary at each school when choosing from the list of elective courses.

To acquire the **Associate of Arts Degree in Studio Arts**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>	<b>Units: 18</b>
ART 105      Survey of Western Art: Prehistory through the Middle Ages	3
OR	
ART 105H      Survey of Western Art: Prehistory through the Middle Ages Honors*	3
ART 106      Survey of Western Art: Renaissance to Contemporary	3
OR	
ART 106H      Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 120      Two Dimensional Design	3
ART 121      Three Dimensional Design	3
ART 130      Freehand Drawing I	3
ART 135      Beginning Painting	3

<b>Additional twelve units from the following elective courses (choose 4)</b>	<b>Units: 12</b>
ART 124      Color Theory	3
ART 131      Freehand Drawing II*	3
ART 136      Intermediate Painting*	3
ART 140      Ceramics I	3
ART 141      Ceramics II*	3
ART 142      Introduction to Ceramic Handbuilding	3
ART 143      Ceramic Handbuilding II*	3
ART 144      Advanced Handbuilding*	3
ART 146      Introduction to Sculpture	3
ART 150      Beginning Printmaking	3
ART 151      Intermediate Printmaking*	3
ART 170      Introduction to Digital Painting*	3
ART 190      Gallery and Exhibition Design	3
ART 230      Beginning Life Drawing*	3
ART 231      Intermediate Life Drawing*	3
ART 232      Advanced Life Drawing*	3
ART 233      Freehand Drawing III*	3
ART 234      Watercolor Painting	3
ART 235      Advanced Painting I*	3
ART 236      Advanced Painting II*	3
ART 242      Advanced Ceramics*	3
ART 252      Advanced Printmaking*	3
ART 260      Figure Drawing for Animators*	3

\*Prerequisite

Total: 30



## AUTOMOTIVE TECHNOLOGY Associate of Science Degree

### Description

The courses listed in the Associate of Science Degree are comprised of a comprehensive list of job skills needed to enter the automotive field. The skills developed during class will enhance the student's ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A-1 through A-8, Automotive Technician. The Degree is designed to prepare an individual for transfer and/or entry-level employment as an Automobile Technician.

To acquire the **Associate of Science Degree in Automotive Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 35
AUTO 107	Introduction to Automotive Light Service* 3
AUTO 140	Body & Chassis Electrical Systems* 4
AUTO 150	Engine Electrical Systems* 4
AUTO 160	Upper End Engine Rebuilding and Machining* 4
AUTO 200	Suspension, Steering, and Alignment Service* 4
AUTO 210	Automotive Brake Systems* 4
AUTO 220	Manual Drive Trains and Axles* 4
AUTO 230	Automatic Transmission/Transaxle* 4
AUTO 240	Heating and Air Conditioning* 4

\*Prerequisite

Total: 35

## AUTOMOTIVE/ADVANCED ENGINE PERFORMANCE Associate of Science Degree

### Description

The courses listed in the Associate of Science Degree comprise a comprehensive list of job skills needed to work in the specialized field of automotive advanced engine performance diagnostics. The skills developed during lecture and lab will enhance students' ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A6 (Electrical/Electronic Systems), A8 (Engine Performance), and L1 (Advanced Engine Performance). The degree is designed to prepare students for transfer and/or entry-level employment as an automotive engine performance diagnostic technician.

To acquire the Associate of Science Degree in Advanced Engine Performance, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 36
AUTO 065	Smog Technician Diagnostic and Repair Procedures 3
AUTO 101	Introduction to Automotive Service and Repair: Underhood Service 3
AUTO 103	Introduction to Automotive Service and Repair: Undercar Service 3
AUTO 106	Automotive Electrical Tools and Diagnostic Procedures 3
AUTO 107	Introduction to Automotive Light Service* 3
AUTO 115	Computerized Engine Controls and Diagnostics* 3
AUTO 130	Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals 3
AUTO 135	Level-II Smog Technician Training Course: Smog Check Inspection Procedures 3
AUTO 150	Engine Electrical Systems* 4
AUTO 157	Automotive Specialized Electronics Training* 4

AUTO 160	Upper End Engine Rebuilding and Machining*	4
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\*Prerequisite

Total: 36

## AUTOMOTIVE/ADVANCED ENGINE PERFORMANCE Certificate of Achievement

### Description

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The courses listed in the certificate of achievement comprise a comprehensive list of job skills needed to work in the specialized field of automotive advanced engine performance diagnostics. The skills developed during lecture and lab will enhance the students' ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A6 (Electrical/Electronic Systems), A8 (Engine Performance), and L1 (Advanced Engine Performance). The certificate is designed to prepare students for entry-level employment as an automotive engine performance diagnostic technician.

To acquire the **Certificate of Achievement in Advanced Engine Performance**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units: 36
AUTO 065	3
AUTO 101	3
AUTO 103	3
AUTO 106	3
AUTO 107	3
AUTO 115	3
AUTO 130	3
AUTO 135	3
AUTO 150	4
AUTO 160	4
AUTO 157	4

\*Prerequisite

Total: 36

## AUTOMOTIVE/ADVANCED ENGINE PERFORMANCE TECHNICIAN Certificate of Achievement

### Description

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This Certificate of Achievement is designed for the experienced Automotive Technician who desires to expand and upgrade his/her skill level to include the ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Test A6 (Electrical/Electronic Systems), A8 (Engine Performance) and L1 (Advanced Engine Performance) within the California Tune-Up and Driveability and Smog Check Program. The certificate is designed to prepare an individual for entry-level employment as a State Certified Smog Check Technician.

To acquire the **Certificate of Achievement in Advanced Engine Performance Technician**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units: 12
AUTO 065	3
AUTO 130	3
AUTO 135	3

AUTO 155	Automotive On-Board Diagnostics Generations One and Two (OBD I and OBD II)*	3
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\*Prerequisite

Total: 12

## AUTOMOTIVE/ALTERNATIVE FUELS & ADVANCED TRANSPORTATION TECHNOLOGY

### Associate of Science Degree

#### Description

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This degree prepares students and incumbent employees to be technicians specializing in alternative fuels and advanced transportation technology. Training includes theory as well as practical skills. Directed practical work is given in all fuel areas, compressed and biodiesel, under simulated, on-the-job conditions. The program will provide students with an opportunity to acquire the knowledge and hand skills demanded of modern transportation specialists. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Associate of Science Degree in Alternative Fuels and Advanced Transportation Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education–Breadth (CSU GE) pattern, or Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Required Courses	Units: 26
AUTO 101      Introduction to Automotive Service and Repair: Underhood Service	3
AUTO 103      Introduction to Automotive Service and Repair: Undercar Service	3
AUTO 106      Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 107      Introduction to Automotive Light Service*	3
AUTO 144      Alternative Fuels Technician	3
AUTO 147      Introduction to Hybrid and Electric Vehicle Technology*	3
AUTO 157      Automotive Specialized Electronics Training*	4
AUTO 150      Engine Electrical Systems*	4

\*Prerequisite

Total: 26

## AUTOMOTIVE/ALTERNATIVE FUELS & ADVANCED TRANSPORTATION TECHNOLOGY

### Certificate of Achievement

#### Description

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This certificate of achievement is designed to prepare students and incumbent employees as alternative fuels and advanced transportation technology specialists. Training takes up theory and practical skills. Directed practical work is assigned in all fuel areas, compressed and biodiesel, under simulated on-the-job conditions. The program will provide students an opportunity to acquire the knowledge and hand skills demanded of modern transportation specialists. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Certificate of Achievement in Alternative Fuels & Advanced Transportation Technology**, it is necessary to complete the following courses:

Required Courses	Units: 14
AUTO 147      Introduction to Hybrid and Electric Vehicle Technology*	3
AUTO 150      Engine Electrical Systems*	4

AUTO 157	Automotive Specialized Electronics Training*	4
AUTO 144	Alternative Fuels Technician	3

\*Prerequisite

Total: 14

## AUTOMOTIVE/BRAKE AND SUSPENSION SERVICE Certificate of Achievement

### Description

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the areas of A-4 Steering and Suspension and/or A-5 Brakes. The certificate is designed to prepare an individual for entry-level employment as a Suspension and Steering and/or Brakes Service/Repair Technician.

To acquire the **Certificate of Achievement in Brake and Suspension Service**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units: 18	
AUTO 103	Introduction to Automotive Service and Repair: Undercar Service	3
AUTO 140	Body & Chassis Electrical Systems*	4
AUTO 200	Suspension, Steering, and Alignment Service*	4
AUTO 210	Automotive Brake Systems*	4
AUTO 211	Anti-lock Brakes/Traction Control Systems*	3

\*Prerequisite

Total: 18

## AUTOMOTIVE/ENGINE REPAIR Certificate of Achievement

### Description

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the area of A-1 Engine Repair. The certificate is designed to prepare an individual for entry-level employment as an Automotive Engine Repair Technician.

To acquire the **Certificate of Achievement in Engine Repair**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units: 14	
AUTO 101	Introduction to Automotive Service and Repair: Underhood Service	3
AUTO 160	Upper End Engine Rebuilding and Machining*	4
AUTO 170	Lower End Engine Rebuilding and Machining*	4
AUTO 190	Engine Blueprinting & Machining	3

\*Prerequisite

Total: 14

## AUTOMOTIVE/GENERAL AUTOMOTIVE SERVICE Certificate of Achievement

### Description

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The courses listed in the Certificate of Achievement are comprised of a comprehensive list of job skills needed to enter the automotive field. The skills developed during class will enhance the student's ability to complete the industry-recognized Automotive Service Excellence (ASE) Certification Tests A-1 through A-8, Automotive Technician. The Certificate is designed to prepare an individual for entry-level employment as an Automobile Technician.

To acquire the **Certificate of Achievement in General Automotive Service**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>	<b>Units: 35</b>
AUTO 107      Introduction to Automotive Light Service*	3
AUTO 140      Body & Chassis Electrical Systems*	4
AUTO 150      Engine Electrical Systems*	4
AUTO 160      Upper End Engine Rebuilding and Machining*	4
AUTO 200      Suspension, Steering, and Alignment Service*	4
AUTO 210      Automotive Brake Systems*	4
AUTO 220      Manual Drive Trains and Axles*	4
AUTO 230      Automatic Transmission/Transaxle*	4
AUTO 240      Heating and Air Conditioning*	4

\*Prerequisite

Total: 35

## AUTOMOTIVE/GENERAL SERVICE TECHNICIAN Certificate of Achievement

### Description

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The courses required in this certificate compile a comprehensive list of job-related skills needed to acquire general automotive skills. The skills acquired during class will prepare an individual for entry-level employment as a light-duty service technician such as a Lube Technician or positions with a franchised repair facility.

To acquire the **Certificate of Achievement in General Service Technician**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>	<b>Units: 12</b>
AUTO 101      Introduction to Automotive Service and Repair: Underhood Service	3
AUTO 103      Introduction to Automotive Service and Repair: Undercar Service	3
AUTO 106      Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 107      Introduction to Automotive Light Service*	3

\*Prerequisite

Total: 12

# AUTOMOTIVE/SAFETY, COMFORT, AND CONVENIENCE SYSTEMS

## Certificate of Achievement

### Description

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The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the areas of A-5 Brakes, A-6 Electrical/Electronic Systems, and A-7 Heating & Air Conditioning. The certificate is designed to prepare an individual for entry-level employment as an Electrical/ Electronic Systems, Brakes Systems, and/or a Heating & Air Conditioning Service/Repair Technician.

To acquire the **Certificate of Achievement in Safety, Comfort, and Convenience Systems**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>	<b>Units: 14</b>
AUTO 140      Body & Chassis Electrical Systems*	4
AUTO 148      Vehicle Safety, Comfort and Convenience Systems*	3
AUTO 211      Anti-lock Brakes/Traction Control Systems*	3
AUTO 240      Heating and Air Conditioning*	4

\*Prerequisite

Total: 14

# AUTOMOTIVE/TRANSMISSION SERVICE

## Certificate of Achievement

### Description

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The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the automotive field. The skills acquired during class will help one complete the ASE Certification Test in the areas of A-2 Automatic Transmission/Transaxle and/or A-3 Manual Drive Train and Axles. The certificate is designed to prepare an individual for entry-level employment as an Automatic Transmission and/or Manual Transmission Service/Repair Technician.

To acquire the **Certificate of Achievement in Transmission Service**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>	<b>Units: 15</b>
AUTO 103      Introduction to Automotive Service and Repair: Undercar Service	3
AUTO 125      Power Train System Service and Transmission Diagnostics*	4
AUTO 220      Manual Drive Trains and Axles*	4
AUTO 230      Automatic Transmission/Transaxle*	4

\*\*Prerequisite

Total: 15





Associate Degree  
for Transfer  
*A Degree with a Guarantee.<sup>SM</sup>*

## BIOLOGY

### Associate in Science for Transfer

#### Description

The **Associate in Science in Biology Transfer (AS-T) Degree** is intended to meet the lower division requirements for Biology majors (or similar majors) at a CSU campus that offers a Biology baccalaureate degree.

This degree provides for the completion of general lower-division preparation associated with the requirements for a bachelor's degree in biology, biochemistry, botany, ecology, forestry, zoology, microbiology, medicine, and other fields. It provides a broad, comprehensive overview of the main areas of biological science. The ability to critically think and use appropriate tools to solve biological questions will be emphasized.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Biology:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) for STEM pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) for STEM pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Biology major at the CSU where they seek transfer.

#### Required Courses

**Units: 36**

BIOL 200	Principles of Biology 1 (Molecular and Cellular Biology)*	5
BIOL 201	Principles of Biology 2 (Diversity and Ecology)*	5
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
PHY 150	General Physics I*	4
AND		
PHY 160	General Physics II*	4
OR		
PHY 211	Physics for Scientists & Engineers - I*	4
AND		
PHY 213	Physics for Scientists & Engineers - III*	4

#### CSU GE or IGETC Pattern (Units will vary)

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 36

## BIOLOGY

### Associate of Science Degree

#### Description

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The **Associate of Science Degree in Biology** prepares students who are intending to transfer to a four-year institution that offers a baccalaureate degree in Biological Sciences. This degree provides for the completion of general lower-division course work associated with the requirements for a bachelor degree in biology, biochemistry, botany, ecology, forestry, zoology, microbiology, medicine, etc. The degree is specifically designed for students intending to transfer to a CSU or UC campus. Students completing the degree will take specific courses in chemistry, biology, physics and mathematics in addition to a general education preparation such as the CSU general education plan or IGETC.

To acquire the **Associate of Science Degree in Biology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 36	
BIOL 200	Principles of Biology 1 (Molecular and Cellular Biology)*	5
BIOL 201	Principles of Biology 2 (Diversity and Ecology)*	5
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
OR		
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
PHY 150	General Physics I*	4
AND		
PHY 160	General Physics II*	4
OR		
PHY 211	Physics for Scientists & Engineers - I*	4
AND		
PHY 213	Physics for Scientists & Engineers - III*	4

\*See assist.org for major preparation required for transfer to a UC or CSU

\*Prerequisite

Total: 36

## BIOTECHNOLOGY

### Certificate of Achievement

#### Description

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This certificate of achievement comprises three foundational courses that give students background and practical experience in the techniques and applications of biotechnology in a contemporary laboratory setting. The certificate is also designed to be a springboard into a wide array of technical and theoretical fields in the natural sciences, including biology, medicine, pharmaceuticals, and agriculture.

To acquire the **Certificate of Achievement in Biotechnology**, it is necessary to complete the following courses:

Required Courses	Units: 13
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BIOT 100	Introduction to Biotechnology	4
BIOT 110	Introduction to Biotechnology Techniques and Applications*	4
CHEM 110	Chemistry for Allied Health Majors*	5
OR		
CHEM 120	Introduction to Chemistry*	5

\*Prerequisite

Total: 13

## BUSINESS ADMINISTRATION Associate of Arts Degree

### Description

This is a transfer degree which allows students to fulfill lower division pre-business requirements for the California State University System. Students should work closely with counselors to select the appropriate math course and other lower division courses which are required by the four-year college of their choice.

To acquire the **Associate of Arts Degree in Business Administration**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units: 24
ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ACCT 102	Managerial Accounting*	4
OR		
ACCT 102H	Managerial Accounting Honors*	4
BUSL 110	Legal Environment of Business	3
CIT 101	Introduction to Computer Information Technology	3
ECON 101	Principles of Macroeconomics*	3
OR		
ECON 101H	Principles of Macroeconomics Honors*	3
ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
MATH 170	Elements of Calculus*	4

\*Prerequisite

Total: 24



## BUSINESS ADMINISTRATION 2.0 Associate in Science for Transfer

### Description

The **Associate in Science in Business Administration 2.0 for Transfer (AS-T) Degree** is intended to meet the lower division requirements for business majors (or similar majors) at a CSU campus that offers a business baccalaureate degree.

This degree program will help students develop the analytical, communication, and critical thinking skills necessary to succeed as a business major. Business Administration prepares students for careers in accounting, finance, management, marketing, information technologies and many others.

Students should work closely with counselors to select the appropriate math courses and other lower division courses which are required by the four-year college of their choice.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Business Administration 2.0:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Business Administration major at the CSU where they seek transfer.

Required Courses	Units: 28
ACCT 101      Financial Accounting	4
OR	
ACCT 101H      Financial Accounting Honors*	4
ACCT 102      Managerial Accounting*	4
OR	
ACCT 102H      Managerial Accounting Honors*	4
BUSL 110      Legal Environment of Business	3
ECON 101      Principles of Macroeconomics*	3
OR	
ECON 101H      Principles of Macroeconomics Honors*	3
ECON 102      Principles of Microeconomics*	3
OR	
ECON 102H      Principles of Microeconomics Honors*	3
MATH 130      Statistics*	4
OR	
MATH 130H      Statistics Honors*	4
MATH 170      Elements of Calculus*	4
MGMT 101      Introduction to Business	3
OR	
MGMT 208      Business Communications*	3
<b>CSU GE or IGETC Pattern (Units will vary)</b>	

Transferable Electives as needed to reach 60 transferable units

DEGREE TOTAL 60 units

\*Prerequisite

Total: 28

## BUSINESS MARKETING Associate of Science Degree

### Description

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The **Associate of Science Degree in Business Marketing** is designed to prepare students to be successful in the dynamic, creative, and fast-paced field of marketing. Students have the flexibility of choosing elective classes that meet their personal goals in their marketing education.

The degree is a two-year program designed to prepare students to enter the workforce or explore additional education options. This comprehensive program can prepare students to be effective in a variety of marketing careers including: sales and sales management, retail management, advertising, promotion, consumer behavior research, customer service, and small business marketing.

To acquire the **Associate of Science Degree in Business Marketing**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses

Units: 12

BUSL 110	Legal Environment of Business	3
MGMT 101	Introduction to Business	3
MGMT 150	Principles of Management	3
MRKT 170	Principles of Marketing	3

#### Choose one course from the following:

Units: 3

MGMT 108	Business Writing	3
MGMT 208	Business Communications*	3

\*Prerequisite

#### Choose four courses from the following:

Units: 12-13

GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4
LOG 101	Supply Chain Management	3
MGMT 141	International Marketing	3
MRKT 171	Consumer Behavior	3
MRKT 172	Advertising and Promotion	3
MRKT 173	Principles of Selling	3
MRKT 174	Small Business Marketing and Advertising	3
MRKT 175	Retail Management	3

Total: 27-28

# BUSINESS MARKETING

## Certificate of Achievement

### Description

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The **Certificate of Achievement in Business Marketing** is designed to prepare students to be successful in the dynamic, creative, and fast-paced field of marketing. Students have the flexibility of choosing elective classes that meet their personal goals in their marketing education.

This certificate of achievement can be used to upgrade marketing skills for professionals already working in marketing positions or to develop new skills for those students wanting to explore marketing careers. This comprehensive program can prepare students to be effective in a variety of marketing careers including: sales and sales management, retail management, advertising, promotion, consumer behavior research, customer service, and small business marketing.

To acquire the **Certificate of Achievement in Business Marketing**, it is necessary to complete the following courses:

#### Required Courses Units: 6

MGMT 101	Introduction to Business	3
MRKT 170	Principles of Marketing	3

#### Choose four courses from the following: Units: 12-13

GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4
LOG 101	Supply Chain Management	3
MGMT 141	International Marketing	3
MRKT 171	Consumer Behavior	3
MRKT 172	Advertising and Promotion	3
MRKT 173	Principles of Selling	3
MRKT 174	Small Business Marketing and Advertising	3
MRKT 175	Retail Management	3

Total: 18-19

## BUSINESS/MANAGEMENT AND SUPERVISION

### Associate of Science Degree

### Description

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This curriculum is designed for those students who desire the education and training for a business career at the management level in many of the following areas: production, materials management and handling, marketing, supervision, transportation, and operations management. A general core of knowledge aims to equip students with sound foundations upon which they may develop management and supervision abilities through advanced student and job experience.

To acquire the **Associate of Science Degree in Management and Supervision**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses Units: 21

BUSL 110	Legal Environment of Business	3
MGMT 101	Introduction to Business	3
MGMT 105	Elements of Supervision	3
MGMT 120	Human Relations in Business	3
MGMT 146	Human Resources Management	3
MGMT 150	Principles of Management	3
MRKT 170	Principles of Marketing	3

#### Choose one of the following: Units: 3



CIT 101	Introduction to Computer Information Technology	3
MGMT 125	Managerial Computer Applications	3
<b>Choose one of the following:</b>		<b>Units: 3</b>
MGMT 108	Business Writing	3
MGMT 208	Business Communications*	3
*Prerequisite		
		Total: 27

## **BUSINESS/MANAGEMENT AND SUPERVISION Certificate of Achievement**

### **Description**

This Certificate of Achievement is designed for the student interested in management or supervisory positions leading to careers in business management. The Certificate of Achievement can be used to upgrade leadership skills and develop organizational skills which can lead to advancement in areas such as operations management, transportation, marketing, materials management, and related fields.

To acquire the **Certificate of Achievement in Management and Supervision**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 21</b>
BUSL 110	Legal Environment of Business	3
MGMT 101	Introduction to Business	3
MGMT 105	Elements of Supervision	3
MGMT 120	Human Relations in Business	3
MGMT 146	Human Resources Management	3
MGMT 150	Principles of Management	3
MRKT 170	Principles of Marketing	3
<b>Choose one of the following:</b>		<b>Units: 3</b>
CIT 101	Introduction to Computer Information Technology	3
MGMT 125	Managerial Computer Applications	3
<b>Choose one of the following:</b>		<b>Units: 3</b>
MGMT 108	Business Writing	3
MGMT 208	Business Communications*	3
*Prerequisite		
		Total: 27

## BUSINESS/RETAIL MANAGEMENT Certificate of Achievement

### Description

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The Retail Management Certificate Program is a comprehensive program designed to prepare students for the fast-paced challenges that exist in the competitive retail industry. This broad program is also intended to help students develop a clear sense of the scope of the retail manager's job and an understanding of the basic requirements for success in the future. This program is endorsed by the Western Association of Food Chains (WAFC).

To acquire the **Certificate of Achievement in Retail Management**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 15</b>
MGMT 120      Human Relations in Business	3
MGMT 146      Human Resources Management	3
MGMT 150      Principles of Management	3
MRKT 170      Principles of Marketing	3
MRKT 175      Retail Management	3
<b>Choose one course:</b>	<b>Units: 3-4</b>
ACCT 100      Introduction to Accounting	3
ACCT 101      Financial Accounting	4
OR	
ACCT 101H      Financial Accounting Honors *	4
<b>Choose one course:</b>	<b>Units: 3</b>
CIT 102      Introduction to Microsoft® Office	3
MGMT 125      Managerial Computer Applications	3
<b>Choose on course:</b>	<b>Units: 3</b>
MGMT 108      Business Writing	3
MGMT 208      Business Communications *	3

\*Prerequisite

Total: 24-25

## BUSINESS/SMALL BUSINESS MANAGEMENT Associate of Science Degree

### Description

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This curriculum is designed for the student wishing to own their own business. Areas of emphasis will include management, marketing, and operations management for a small business. The student will gain a general core of knowledge about different types of small businesses: service businesses, international businesses, e-commerce businesses and business-to-business ventures through hands-on projects.

To acquire the **Associate of Science Degree in Small Business Management**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>	<b>Units: 22</b>
ACCT 101      Financial Accounting	4
OR	

ACCT 101H	Financial Accounting Honors*	4
BUSL 110	Legal Environment of Business	3
CIT 101	Introduction to Computer Information Technology	3
OR		
MGMT 125	Managerial Computer Applications	3
MGMT 101	Introduction to Business	3
MGMT 108	Business Writing	3
OR		
MGMT 208	Business Communications*	3
MGMT 130	Small Business Management--Entrepreneurship	3
MRKT 170	Principles of Marketing	3

\*Prerequisite

**Students select two classes from the following list:**

**Units: 6**

CIT 155	Introduction to E-Commerce	3
LOG 101	Supply Chain Management	3
MGMT 120	Human Relations in Business	3
MGMT 140	Introduction to International Business	3
MGMT 150	Principles of Management	3
MRKT 172	Advertising and Promotion	3
MRKT 174	Small Business Marketing and Advertising	3
MRKT 175	Retail Management	3

Total: 28

## **BUSINESS/SMALL BUSINESS MANAGEMENT Certificate of Achievement**

### **Description**

This Certificate of Achievement is designed for the student wishing to own their own business. Areas of emphasis will include management, marketing, and operations management for a small business. The student will gain a general core of knowledge about different types of small businesses: service businesses, international businesses, e-commerce businesses and business-to-business ventures through hands-on projects.

To acquire the **Certificate of Achievement in Small Business Management**, it is necessary to complete the following courses:

### **Required Courses**

**Units: 22**

ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
BUSL 110	Legal Environment of Business	3
CIT 101	Introduction to Computer Information Technology	3
OR		
MGMT 125	Managerial Computer Applications	3
MGMT 101	Introduction to Business	3
MGMT 108	Business Writing	3
OR		
MGMT 208	Business Communications*	3
MGMT 130	Small Business Management--Entrepreneurship	3
MRKT 170	Principles of Marketing	3

\*Prerequisite

**Students select two classes from the following list:**

**Units: 6**

CIT 155	Introduction to E-Commerce	3
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LOG 101	Supply Chain Management	3
MGMT 120	Human Relations in Business	3
MGMT 140	Introduction to International Business	3
MGMT 150	Principles of Management	3
MRKT 172	Advertising and Promotion	3
MRKT 174	Small Business Marketing and Advertising	3
MRKT 175	Retail Management	3

Total: 28

## CARPENTRY - CONCRETE FORMING Associate of Science Degree

### Description

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The **Carpentry - Concrete Forming Associate of Science Degree** is designed to prepare students who are interested in careers in the carpentry industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and standards). Students gain the skills and knowledge necessary to work in the carpentry industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.

To acquire the **Associate of Science Degree in Carpentry - Concrete Forming**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses

**Units: 19.5**

CARP 040A	Orientation*	2
CARP 040B	Safety & Health Certifications*	2
CARP 040R	Tool/Equipment Applications*	1.5
CARP 040F	Wall Forming*	1.5
CARP 040C	Print Reading*	2
CARP 050G	Beam and Deck Forming*	1.5
CARP 050H	Gang Forms/Columns*	1.5
CARP 040E	Foundations and Flatwork*	1.5
CARP 040G	Stair and Ramp Forming*	1.5
CARP 050F	Tilt Up Construction*	1.5
CARP 050E	Bridge Construction*	1.5
CARP 050I	Abutments*	1.5

\*Prerequisite

Total: 19.5

## CARPENTRY - CONCRETE FORMING Certificate of Achievement

### Description

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The **Carpentry - Concrete Forming Certificate of Achievement** is designed to prepare students who are interested in careers in the carpentry industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and standards). Students gain the skills and knowledge necessary to work in the carpentry industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.

To acquire the **Certificate of Achievement in Carpentry - Concrete Forming** it is necessary to complete the following courses with a grade of "C" or better:

#### Required Courses

**Units: 19.5**

CARP 040A	Orientation*	2
CARP 040B	Safety & Health Certifications*	2
CARP 040R	Tool/Equipment Applications*	1.5
CARP 040F	Wall Forming*	1.5
CARP 040C	Print Reading*	2
CARP 050G	Beam and Deck Forming*	1.5
CARP 050H	Gang Forms/Columns*	1.5
CARP 040E	Foundations and Flatwork*	1.5
CARP 040G	Stair and Ramp Forming*	1.5
CARP 050F	Tilt Up Construction*	1.5
CARP 050E	Bridge Construction*	1.5
CARP 050I	Abutments*	1.5

\*Prerequisite

Total: 19.5

## CARPENTRY - GENERAL

### Associate of Science Degree

#### Description

The **Carpentry - General Associate of Science Degree** is designed to prepare students who are interested in careers in the carpentry industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and standards). Students gain the skills and knowledge necessary to work in the carpentry industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.

To acquire the **Associate of Science Degree in Carpentry - General**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Río Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses

**Units: 20**

CARP 040A	Orientation*	2
CARP 040B	Safety & Health Certifications*	2
CARP 040R	Tool/Equipment Applications*	1.5
CARP 040P	Basic Wall Framing*	1.5
CARP 040C	Print Reading*	2
CARP 040H	Commercial Floor Framing*	1.5
CARP 040I	Basic Roof Framing*	1.5
CARP 040E	Foundations and Flatwork*	1.5
CARP 040F	Wall Forming*	1.5
CARP 040G	Stair and Ramp Forming*	1.5
CARP 040S	Moldings and Trims*	1.5
CARP 040D	Transit Level/Laser*	2

\*Prerequisite

Total: 20

## CARPENTRY - GENERAL

### Certificate of Achievement

#### Description

The **Carpentry - General Certificate of Achievement** is designed to prepare students who are interested in careers in the carpentry industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and

standards). Students gain the skills and knowledge necessary to work in the carpentry industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.

To acquire the **Certificate of Achievement in Carpentry - General**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 20</b>
CARP 040A	Orientation*	2
CARP 040B	Safety & Health Certifications*	2
CARP 040R	Tool/Equipment Applications*	1.5
CARP 040P	Basic Wall Framing*	1.5
CARP 040C	Print Reading*	2
CARP 040H	Commercial Floor Framing*	1.5
CARP 040I	Basic Roof Framing*	1.5
CARP 040E	Foundations and Flatwork*	1.5
CARP 040F	Wall Forming*	1.5
CARP 040G	Stair and Ramp Forming*	1.5
CARP 040S	Moldings and Trims*	1.5
CARP 040D	Transit Level/Laser*	2

\*Prerequisite

Total: 20

## **CARPENTRY - SCAFFOLD CONSTRUCTION**

### **Associate of Science Degree**

#### **Description**

The **Carpentry - Scaffold Construction Associate of Science Degree** is designed to prepare students who are interested in careers in the carpentry industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and standards). Students gain the skills and knowledge necessary to work in the carpentry industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.

To acquire the **Associate of Science Degree in Carpentry - Scaffold Construction**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 19.5</b>
CARP 040A	Orientation*	2
CARP 040B	Safety & Health Certifications*	2
CARP 040R	Tool/Equipment Applications*	1.5
CARP 070A	Basic Frame Scaffold*	1.5
CARP 070B	Basic System Scaffold*	1.5
CARP 070C	Basic Tube and Clamp Scaffold*	1.5
CARP 070D	Basic Suspended Scaffold*	1.5
CARP 070E	Intermediate Frame Scaffold*	1.5
CARP 070F	Intermediate System Scaffold*	1.5
CARP 040C	Print Reading*	2
CARP 070G	Advanced Frame Scaffold*	1.5
CARP 070H	Advanced System Scaffold*	1.5

\*Prerequisite

Total: 19.5



## CARPENTRY - SCAFFOLD CONSTRUCTION

### Certificate of Achievement

#### Description

The **Carpentry - Scaffold Construction Certificate of Achievement** is designed to prepare students who are interested in careers in the carpentry industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and standards). Students gain the skills and knowledge necessary to work in the carpentry industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.

To acquire the **Certificate of Achievement in Carpentry - Scaffold Construction**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 19.5</b>
CARP 040A	Orientation*	2
CARP 040B	Safety & Health Certifications*	2
CARP 040R	Tool/Equipment Applications*	1.5
CARP 070A	Basic Frame Scaffold*	1.5
CARP 070B	Basic System Scaffold*	1.5
CARP 070C	Basic Tube and Clamp Scaffold*	1.5
CARP 070D	Basic Suspended Scaffold*	1.5
CARP 070E	Intermediate Frame Scaffold*	1.5
CARP 070F	Intermediate System Scaffold*	1.5
CARP 040C	Print Reading*	2
CARP 070G	Advanced Frame Scaffold*	1.5
CARP 070H	Advanced System Scaffold*	1.5

\*Prerequisite

Total: 19.5



### CHEMISTRY

#### Associate in Science for Transfer

#### Description

The **Associate in Science in Chemistry for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Chemistry and Chemical Education majors at a CSU campus that offers a Chemistry baccalaureate degree.

This degree provides for the completion of general lower-division preparation associated with the requirements for a bachelor's degree in chemistry, biochemistry, chemical engineering, and other fields. It provides a broad, comprehensive overview of the main areas of chemistry and its' applications. The ability to critically think and use appropriate tools to solve chemical questions will be emphasized.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Chemistry:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) for STEM pattern; OR the

Intersegmental General Education Transfer Curriculum (IGETC) for STEM pattern. (The use of the IGETC for STEM pattern allows for the completion of the degree within 60 units.)

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Chemistry major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 36</b>
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
CHEM 230	Organic Chemistry I*	5
CHEM 231	Organic Chemistry II*	5
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
PHY 211	Physics for Scientists & Engineers - I*	4
PHY 213	Physics for Scientists & Engineers - III*	4

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 36

## Chemistry - UC TRANSFER PATHWAY

### Associate in Science Degree

#### Description

**The Chemistry UC Transfer Pathway Associate in Science Degree** is intended for Rio Hondo College students planning to transfer to the University of California (UC) system as chemistry majors. Along with completing the degree requirements, students must comply with the following in order to be guaranteed admission\* to a UC campus participating in the Transfer Admission Guarantee (TAG) program:

1. Complete all of the chemistry major preparation coursework as outlined in this degree with a "C" grade or better in each course.
2. Complete the Intersegmental General Education Transfer Curriculum (IGETC) requirements with the deferment of two courses in Area 3 (Arts and Humanities) and two courses in Area 4 (Social and Behavioral Sciences) of the IGETC. These deferred courses are to be completed at the UC after transfer.
3. Complete a TAG application to a participating UC campus by the deadline set by the UC system.
4. Complete the individual TAG requirements for said UC campus by the deadlines set by the UC system.
5. Maintain or exceed the GPA requirements as outlined in the TAG agreement the student has made at said UC campus for their completed and remaining coursework before transfer.\*\*
6. Complete their application for admission to said UC campus by the deadline set by the UC system.

Students are *highly encouraged* to work with a Rio Hondo College STEM Counselor for assistance in completion of this degree.

\*Please note that receiving this degree alone *does not* guarantee admission to the UC system. A student may submit a TAG application to only one UC campus.

\*\*A student may still be awarded this degree by meeting the local GPA requirements at Rio Hondo College.

<b>Required Chemistry Courses</b>		<b>Units: 20</b>
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
CHEM 230	Organic Chemistry I*	5
CHEM 231	Organic Chemistry II*	5

<b>Required Physics Courses</b>		<b>Units: 12</b>
PHY 211	Physics for Scientists & Engineers - I*	4
PHY 212	Physics for Scientists & Engineers - II*	4
PHY 213	Physics for Scientists & Engineers - III*	4

<b>Required Mathematics Courses</b>		<b>Units: 16-17</b>
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
MATH 250	Calculus III*	4
MATH 251	Linear Algebra and Differential Equations*	5
OR		
MATH 270	Differential Equations*	4

\*Prerequisite

Total: 48-49

## **CHICANA/O/X STUDIES**

### **Associate of Arts Degree**

#### **Description**

The **Associate of Arts Degree in Chicana/o/x Studies** offers multidisciplinary and interdisciplinary areas of study for students to learn the histories, cultures, and intellectual traditions of Mexican descendants, as well as other Latina/o/x and Indigenous populations within the U.S. and across the Americas. Students will learn and use a diverse set of academic skills to critically examine, creatively problem-solve, and courageously imagine in an increasingly changing society. This degree is intended to prepare students interested in transferring to four-year institutions as Chicana/o/x Studies majors. The Chicana/o/x Studies discipline provides students with career opportunities in the arts, education, social work, marketing, advocacy, journalism, government, and public health.

To acquire the **Associate of Arts Degree in Chicana/o/x Studies**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 9</b>
CHST 101	Introduction to Chicana/o/x Studies	3
CHST 146	The Mexican American in the History of the United States	3
CHST 148	La Chicana: Mexican-American Women in Contemporary Society	3
OR		
CHST 148H	La Chicana: Mexican-American Women in Contemporary Society Honors*	3

<b>Elective Courses: Select three courses from the list below:</b>		<b>Units: 9</b>
ART 108	The Art of Mexico	3
CHST 150	Chicana/o/x Politics	3
EGSS 110	Introduction to Ethnic Studies	3
EGSS 130	Introduction to LGBTQ+ Studies	3
HIST 122	History of Mexico	3
HIST 131	History of the North American Indian	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3
OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors*	3
HIST 167	History of California	3
HUM 125	Introduction to Mexican Culture	3
OR		
HUM 125H	Introduction to Mexican Culture Honors*	3

HUM 130	Contemporary Mexican-American Culture	3
LIT 117	Mexican Literature in Translation*	3
OR		
LIT 117H	Mexican Literature in Translation Honors*	3
LIT 149	Introduction to Chicana/o/x Literature*	3
OR		
LIT 149H	Introduction to Chicana/o/x Literature Honors*	3
MUS 129	Music in Latin American Culture	3
POLS 150	Latinx Politics	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3

\*Prerequisite

Total: 18

## CHILD DEVELOPMENT Associate of Science Degree

### Description

The following curriculum meets the requirements for an Associate of Science Degree. Students planning to continue towards a Bachelor's Degree in Child Development, Home Economics or Elementary Education should consult the college or university to which they intend to transfer for specific requirements. All courses listed in Child Development electives, regardless of the catalog year or year taken, may be used as Child Development electives for the Associate Degree under any catalog year. The State of California Commission on Teacher Credentialing has several Child Development Permits available to students completing Child Development courses. See [www.ctc.ca.gov/credentials/CREDS/child-dev-permits.html](http://www.ctc.ca.gov/credentials/CREDS/child-dev-permits.html) for details.

To acquire an **Associate of Science Degree in Child Development**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

### Required Courses

**Units: 18**

CD 106	Child Growth and Development <sup>(DS 1)+</sup>	3
CD 110	Principles and Practices of Early Childhood Education <sup>(DS 3)+</sup>	3
CD 111	Early Childhood Education Curriculum <sup>(DS 3)+</sup>	3
CD 114	Observation and Assessment <sup>(DS 3)+</sup>	3
CD 208	Child, Family, and Community <sup>(DS 2)+</sup>	3
CD 228	Early Childhood Education Practicum**	3

### Plus nine units selected from the following courses:

**Units: 9**

CD 102	Nutrition, Health and Safety for Children <sup>(DS 7)+</sup>	3
CD 103	Parenting <sup>(DS 2)+</sup>	3
CD 115	Creative Art Experiences for Children <sup>(DS 3)+</sup>	3
CD 118	Development of Science and Math Experiences <sup>(DS 3)+</sup>	3
CD 119	Music and Movement for Children <sup>(DS 3)+</sup>	3
CD 120	Experiences in Language Arts <sup>(DS 3)+</sup>	3
CD 211	Infant and Toddler Development <sup>(DS 4)+</sup>	3
CD 213	Care and Education for Infants and Toddlers <sup>(DS 4)+</sup>	3
CD 224	Diversity Issues During Early Childhood, School Age, and Adolescence <sup>(DS 3)+</sup>	3
CD 226	Introduction to Special Education	3
CD 229	Literacy Development for Children <sup>(DS 3)+</sup>	3
CD 232	Curriculum and Strategies for Children with Special Needs	3
ED 110	Introduction to Teaching	3

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

\*\*3.4 consecutive hours of weekly supervised field experience at the Rio Hondo College Child Development Center are required. Schedule must be established prior to the start of the semester. Beginning times are typically 7:30am, 8:30am, 9:30 am or 1:45 pm. Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are required prior to the semester's start. For more information, contact CDCinfo@riohondo.edu.

Total: 27

## CHILD DEVELOPMENT Certificate of Achievement

### Description

This curriculum is designed to meet the minimum educational requirements of the California Department of Social Services (DSS) to secure employment in state licensed private preschools and childcare centers as Infant/Toddler, Preschool or School-Age Teachers or as Program Director. The curriculum will also meet requirements for acquiring Assistant and Associate Teacher Level Child Development Permits from the California Commission on Teacher Credentialing in order to secure employment in state and federally funded programs for children. All courses listed in Child Development electives, regardless of the catalog year or year taken, may be used as Child Development electives for the Certificate of Achievement under any catalog year. The State of California Commission on Teacher Credentialing has several Child Development Permits available to students completing Child Development courses. See [www.ctc.ca.gov/credentials/CREDS/child-dev-permits.html](http://www.ctc.ca.gov/credentials/CREDS/child-dev-permits.html) for details.

To acquire a **Certificate of Achievement in Child Development**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 18</b>
CD 106      Child Growth and Development <sup>(DS 1)+</sup>	3
CD 110      Principles and Practices of Early Childhood Education <sup>(DS 3)+</sup>	3
CD 111      Early Childhood Education Curriculum <sup>(DS 3)+</sup>	3
CD 114      Observation and Assessment <sup>(DS 3)+</sup>	3
CD 208      Child, Family, and Community <sup>(DS 2)+</sup>	3
CD 228      Early Childhood Education Practicum**	3

<b>Plus nine units selected from the following courses:</b>	<b>Units: 9</b>
CD 102      Nutrition, Health and Safety for Children <sup>(DS 7)+</sup>	3
CD 103      Parenting <sup>(DS 2)+</sup>	3
CD 115      Creative Art Experiences for Children <sup>(DS 3)+</sup>	3
CD 118      Development of Science and Math Experiences <sup>(DS 3)+</sup>	3
CD 119      Music and Movement for Children <sup>(DS 3)+</sup>	3
CD 120      Experiences in Language Arts <sup>(DS 3)+</sup>	3
CD 211      Infant and Toddler Development <sup>(DS 4)+</sup>	3
CD 213      Care and Education for Infants and Toddlers <sup>(DS 4)+</sup>	3
CD 224      Diversity Issues During Early Childhood, School Age, and Adolescence <sup>(DS 3)+</sup>	3
CD 226      Introduction to Special Education	3
CD 229      Literacy Development for Children <sup>(DS 3)+</sup>	3
CD 232      Curriculum and Strategies for Children with Special Needs	3
ED 110      Introduction to Teaching	3

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

\*\*3.4 consecutive hours of weekly supervised field experience at the Rio Hondo College Child Development Center are required. Schedule must be established prior to the start of the semester. Beginning times are typically 7:30 am, 8:30 am, 9:30 am or 1:45 pm. Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are required prior to the semester's start. For more information, contact CDCinfo@riohondo.edu.

Total: 27



Associate Degree  
for Transfer  
*A Degree with a Guarantee.<sup>SM</sup>*

## CHILD DEVELOPMENT/EARLY CHILDHOOD EDUCATION Associate in Science for Transfer

### Description

The **Associate in Science in Early Childhood Education for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Early Childhood Education majors (or similar majors) at a CSU campus that offers an Early Childhood Education baccalaureate degree.

This degree is designed for students interested in gaining the basic concepts and applications of the field of Early Childhood Education and for students looking to meet the state minimum requirements to work in the field. These courses will provide students with a solid foundation in theory, pedagogy, principles and practices that will serve them for either transferring to a four-year college or in the workplace.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Early Childhood Education:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Early Childhood Education major at the CSU where they seek transfer.

### Required Courses

**Units: 24**

CD 102	Nutrition, Health and Safety for Children	3
CD 106	Child Growth and Development	3
CD 110	Principles and Practices of Early Childhood Education	3
CD 111	Early Childhood Education Curriculum	3
CD 114	Observation and Assessment	3
CD 208	Child, Family, and Community	3
CD 224	Diversity Issues During Early Childhood, School Age, and Adolescence	3
CD 228	Early Childhood Education Practicum**	3

### CSU GE or IGETC Pattern (Units will vary)

### Transferable Electives as needed to reach 60 transferable units

### DEGREE TOTAL 60 units

\*\*\*3.4 consecutive hours of weekly supervised field experience at the Rio Hondo College Child Development Center are required. Schedule must be established prior to the start of the semester. Beginning times are typically 7:30am, 8:30am, 9:30 am or 1:45 pm. Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are required prior to the semester's start. For more information, contact CDCinfo@riohondo.edu.

Total: 24



## CHILD DEVELOPMENT/INFANT-TODDLER SPECIALIZATION

### Certificate of Achievement

#### Description

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The following courses will prepare students to work with infants and toddlers by providing developmental information regarding this age group and techniques to facilitate and support the care and education of infants and toddlers.

To acquire the **Certificate of Achievement in Infant/Toddler Specialization**, it is necessary to complete the following courses:

Required Courses		Units: 12
CD 106	Child Growth and Development	3
CD 110	Principles and Practices of Early Childhood Education	3
CD 211	Infant and Toddler Development	3
CD 213	Care and Education for Infants and Toddlers	3
		Total: 12

## CHILD DEVELOPMENT/LANGUAGE AND LITERACY SPECIALIZATION

### Certificate of Achievement

#### Description

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The following courses will prepare students to effectively facilitate and support the language development of children. It will also provide essential information regarding Emergent Literacy and how it supports the development of effective reading skills in children.

To acquire the **Certificate of Achievement in Language and Literacy Specialization**, it is necessary to complete the following courses:

Required Courses		Units: 12
CD 106	Child Growth and Development	3
CD 110	Principles and Practices of Early Childhood Education	3
CD 120	Experiences in Language Arts	3
CD 229	Literacy Development for Children	3
		Total: 12

## CHILD DEVELOPMENT/PRESCHOOL TEACHER

### Certificate of Achievement

#### Description

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The following courses meet the minimum educational requirements under Title 22 (Department of Social Services-DSS) to qualify the student to teach in a state licensed preschool or childcare program (private for-profit or private nonprofit). Completion of these courses will also qualify a student to apply for a Child Development Permit at the Assistant level through the California Commission on Teacher Credentialing. The Assistant Level Permit will qualify a student to teach in state or federally funded programs. These courses also meet the unit requirements for the Associate Teacher Level on the Child Development Permit Matrix (work experience is also required for this permit level). The student must have attained a grade of "C" or higher in each course. See [www.ctc.ca.gov/credentials/leaflets/c1797.pdf](http://www.ctc.ca.gov/credentials/leaflets/c1797.pdf) for details.

To acquire the **Certificate of Achievement in Preschool Teacher**, it is necessary to complete the following courses:

Required Courses		Units: 15
CD 102	Nutrition, Health and Safety for Children <sup>+(DS 7)</sup>	3

CD 106	Child Growth and Development <sup>+(DS 1)</sup>	3
CD 110	Principles and Practices of Early Childhood Education <sup>+(DS 3)</sup>	3
CD 111	Early Childhood Education Curriculum <sup>+(DS 3)</sup>	3
CD 208	Child, Family, and Community <sup>+(DS 2)</sup>	3

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

Total: 15

## CHILD DEVELOPMENT/SPECIAL EDUCATION SPECIALIZATION Certificate of Achievement

### Description

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The following courses will prepare students to work with children with special needs by providing introductory information regarding the types of special needs, statutory requirements for providing educational programming for children with special needs and techniques to facilitate and support the learning of children with special needs.

To acquire the **Certificate of Achievement in Special Education Specialization**, it is necessary to complete the following courses:

Required Courses		Units: 12
CD 106	Child Growth and Development	3
CD 110	Principles and Practices of Early Childhood Education	3
CD 226	Introduction to Special Education	3
CD 232	Curriculum and Strategies for Children with Special Needs	3

Total: 12

## CIVIL DESIGN Associate of Science Degree

### Description

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This major provides a focused course of study for students in preparation for careers involving the design and construction of civil engineering projects. The curriculum also puts interested students on the path to licensure as civil engineers. The coursework includes exposure to the broad range of subdisciplines within the field of civil engineering, and closely-related fields such as surveying, architecture, geographic information systems (GIS), and construction. Additionally, the integral coursework focuses on the preparation of common civil project drawings using industry-standard drawing techniques and conventions with hand and/or computer-aided drafting (CAD) tools.

As a degree (in contrast to a certificate), this program requires the completion of general education courses; however, if transfer to a university for a baccalaureate or advanced degree is desired, interested students should carefully consider the specific admission and transfer requirements for individual colleges and universities.

To acquire the **Associate of Science Degree in Civil Design**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College general education and proficiency, California State University General Education Breadth (CSU GE-Breadth), or Intersegmental General Education Transfer Curriculum (IGETC) requirements.

Required Courses:		Units: 25-26
ENGT 100	Introduction to Engineering (Same as ENGR 100)	2
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4
ARCH 110	Construction Document Reading and Estimating	3

OR		
ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
CIV 140	Civil Engineering & Construction Fundamentals	4
CIV 142	Introduction to Land Surveying and GPS	4
CIV 210	Concrete Technology and Testing	2
CIV 241	Civil Engineering Drafting and Design*	3

**Choose a minimum of 5 units from the following:** **Units: 5-8**

CIV 143	Applications to Surveying and GPS*	4
CIV 245	Civil Engineering Design and Modeling*	3
CIV 290	Cooperative Work Experience / Internship for Civil Related Fields	1-4
CIV 299	Directed Study in Civil Design Technology**	1-3
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4

\*Prerequisite

\*\*minimum GPA requirements or instructor approval

Total: 30-34

## CIVIL DESIGN TECHNICIAN Certificate of Achievement

### Description

This major provides a focused course of study for students in preparation for careers involving the design and construction of civil engineering projects. The curriculum also puts interested students on the path to licensure as civil engineers. The coursework includes exposure to the broad range of subdisciplines within the field of civil engineering and closely-related fields such as surveying, architecture, geographic information systems (GIS), and construction. Additionally, the integral coursework focuses on the preparation of common civil project drawings using industry-standard drawing techniques and conventions with hand and/or computer-aided drafting (CAD) tools.

To acquire the **Certificate of Achievement in Civil Design Technician**, it is necessary to complete the following courses:

**Required Courses:** **Units: 25-26**

ARCH 110	Construction Document Reading and Estimating	3
OR		
ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
CIV 140	Civil Engineering & Construction Fundamentals	4
CIV 142	Introduction to Land Surveying and GPS	4
CIV 210	Concrete Technology and Testing	2
CIV 241	Civil Engineering Drafting and Design*	3
ENGT 100	Introduction to Engineering (Same as ENGR 100)	2
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4

**Choose a minimum of 5 units from the following:** **Units: 5-8**

CIV 143	Applications to Surveying and GPS*	4
CIV 245	Civil Engineering Design and Modeling*	3
CIV 290	Cooperative Work Experience / Internship for Civil Related Fields	1-4
CIV 299	Directed Study in Civil Design Technology**	1-3
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4

\*Prerequisite

\*\*minimum GPA requirements or instructor approval

Total: 30-34

## CIVIL DESIGN/SURVEYING, MAPPING & DRAWING Certificate of Achievement

### Description

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This certificate is designed for surveying careers and leads to employment in civil design applications, public work, utilities and CADD/Drafting-related industries.

To acquire the **Certificate of Achievement in Surveying, Mapping & Drawing**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 22</b>
CIV 140	Civil Engineering & Construction Fundamentals	4
CIV 142	Introduction to Land Surveying and GPS	4
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 122	Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	3
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4
GIS 221	Cartography Design and Geographic Information Systems*	4

\*Prerequisite

<b>Select one course from the following:</b>		<b>Units: 4</b>
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4

Additional Recommended courses: GEOG 101 and MATH 175

Total: 26

## CIVIL DRAFTING Certificate of Achievement

### Description

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This program provides a focused course of study to ready students for careers in the preparation of construction documents for Civil Engineering projects. The coursework provides a focus on the preparation of common civil project drawings using industry-standard drawing techniques and conventions with hand and/or computer-aided drafting tools. Additionally, the coursework includes exposure to the broad range of sub-disciplines within the field of Civil Engineering.

To acquire the **Certificate of Achievement in Civil Drafting**, it is necessary to complete the following courses:

<b>Required Courses:</b>		<b>Units: 14</b>
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4
CIV 140	Civil Engineering & Construction Fundamentals	4
CIV 241	Civil Engineering Drafting and Design*	3

\*Prerequisite

<b>Choose a minimum of 3 units from the following:</b>		<b>Units: 3-4</b>
ARCH 110	Construction Document Reading and Estimating	3

ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
CIV 290	Cooperative Work Experience / Internship for Civil Related Fields	1-4
CIV 299	Directed Study in Civil Design Technology*	1-3
		Total: 17-18



## COMMUNICATION STUDIES 2.0

### Associate in Arts for Transfer

#### Description

The **Associate in Arts in Communication Studies 2.0 for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Communication Studies majors (or similar majors) at a CSU campus that offers a Communication Studies baccalaureate degree.

This degree is designed for students interested in the study and practice of human communication. The Associate in Arts in Communication Studies for Transfer Degree offers students comprehensive knowledge of the nature of communication, including theoretical foundations and applicable skills. Students will develop skills in advocacy, critical thinking, debate, interpersonal communication, oral communication, performance, public speaking, and small group communication. Career opportunities may include: administration, advertising, broadcasting, business communications, consulting, government services, journalism, law, marketing, performance, politics, public relations, sales, teaching, and other professions in which an understanding of and facility with the process of communication is essential.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Communication Studies 2.0:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Communication Studies major at the CSU where they seek transfer.

<b>Required Courses (6 units)</b>		<b>Units: 6</b>
SPCH 101	Public Speaking	3
OR		
SPCH 101H	Public Speaking Honors*	3
SPCH 100	Interpersonal Communication	3

\*Prerequisite

**List A: Select three courses (9 units) from List A below (a maximum of 3 units in Forensics):** **Units: 9**

SPCH 110	Forensics: Speech & Debate Team	2-3
SPCH 120	Small Group Communication	3
SPCH 130	Oral Interpretation	3
SPCH 140	Argumentation and Debate	3
SPCH 150	Intercultural Communication	3
MSCM 128	Mass Media in Modern Society	3

**List B: Select one course (3 units). Choose from List B below or one course not yet taken from List A:**

**Units: 3**

ANTH 102	Introduction to Cultural Anthropology	3
OR		
ANTH 102H	Introduction to Cultural Anthropology Honors*	3
JOUR 120	Communications Reporting and Writing	3
LIT 102	Approaches to Literature	3
OR		
LIT 102H	Approaches to Literature Honors*	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SPCH 132	Readers Theatre	3
SPCH 240	Argumentation and Discussion*	3

**CSU or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

Total: 18

## **COMPUTER INFORMATION TECHNOLOGY/CLOUD COMPUTING PRACTITIONER Certificate of Achievement**

### **Description**

The Cloud Computing program prepares students to design solutions for Infrastructure as a Service (IaaS) architectures by provisioning computing instances, establishing virtual private networks, managing databases and storage within a secure online environment. Students produce dynamic solutions responsive to information and computing technology workloads with on-demand pay-as-you-go pricing allowing flexibility for small business, entrepreneurship and enterprise adoption. Industry certifications are embedded to prepare for occupations in Cloud Architect, Cloud Support Associate, Cloud Engineer or Cloud Technicians. Some preparation in information technology or computer programming is recommended.

To acquire the **Certificate of Achievement in Computer Information Technology/Cloud Computing Practitioner**, it is necessary to complete the following courses:

### **Required Courses**

**Units: 13**

CIT 114	Introduction to Cloud Computing with DevOps	4
CIT 172	Database Essentials in Amazon Web Services*	3
CIT 173	Compute Engines in Amazon Web Services*	1.5
CIT 174	Security in Amazon Web Services*	1.5
CIT 175	DevOps Engineering in Amazon Web Services*	3

### **Choose one of the following options:**

**Units: 3-6**

CIT 139	Linux I*	3
OR		
CIT 171	Network +*	3
OR		
CIT 200	Systems Analysis and Design*	3
OR		
CIT 111	Introduction to Programming	3
AND		
CIT 127	Python Programming I*	3

Total: 16-19



# COMPUTER INFORMATION TECHNOLOGY/COMPUTER SYSTEMS

## Associate of Science Degree

### Description

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This curriculum is designed to prepare students for employment in computer applications with emphasis in programming language C++, Java or Python.

To acquire the **Associate of Science Degree in Computer Information Technology: Computer Systems**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units: 12
CIT 101	Introduction to Computer Information Technology	3
CIT 111	Introduction to Programming	3
CIT 119	Microsoft® Access®	3
CIT 200	Systems Analysis and Design*	3

**Choose one area of specialization below:** **Units: 6-8**

**C++ Programming Option:**

CIT 125	Introduction to C++ Programming	4
CIT 126	Advanced C++ Programming*	4

**Java Programming Option:**

CIT 135	Introduction to Java Programming	4
CIT 136	Advanced Java Programming*	4

**Python Programming Option:**

CIT 127	Python Programming I*	3
CIT 128	Python Programming II*	3

\*Prerequisite

Total: 18-20

# COMPUTER INFORMATION TECHNOLOGY/COMPUTER SYSTEMS

## Certificate of Achievement

### Description

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This certificate program is designed to prepare students for employment in computer applications with emphasis in programming language C++, Java or Python.

To acquire the **Certificate of Achievement in Computer Information Technology: Computer Systems**, it is necessary to complete the following courses:

Required Courses		Units: 12
CIT 101	Introduction to Computer Information Technology	3
CIT 111	Introduction to Programming	3
CIT 119	Microsoft® Access®	3
CIT 200	Systems Analysis and Design*	3

**Choose one area of specialization below:****Units: 6-8****C++ Programming Option:**

CIT 125	Introduction to C++ Programming	4
CIT 126	Advanced C++ Programming *	4

**Java Programming Option:**

CIT 135	Introduction to Java Programming	4
CIT 136	Advanced Java Programming *	4

**Python Programming Option:**

CIT 127	Python Programming I*	3
CIT 128	Python Programming II*	3

\*Prerequisite

Total: 18-20

## COMPUTER INFORMATION TECHNOLOGY/CYBERSECURITY

### Associate of Science Degree

**Description**

The following curriculum meets the requirement for a degree in Computer Information Technology/Cybersecurity. The courses needed for the degree are designed for those wishing to pursue a career in Computer Information Technology with emphasis in Cybersecurity.

To acquire the **Associate of Science Degree in Computer Information Technology/Cybersecurity**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Required Courses****Units: 10**

CIT 101	Introduction to Computer Information Technology	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 221	Ethical Hacking*	3

**Select one course from the following:****Units: 3**

CIT 171	Network +*	3
CIT 210	Cisco® Networking I*	3

**Select one course from the following:****Units: 3-4**

CIT 125	Introduction to C++ Programming	4
CIT 127	Python Programming I*	3
CIT 135	Introduction to Java Programming	4

**Select two courses from the following:****Units: 6**

CIT 170	Server +*	3
CIT 192	Security +*	3
CIT 200	Systems Analysis and Design*	3
CIT 214	Cisco Networking II*	3
MGMT 208	Business Communications*	3

**Select one course from the following:****Units: 4**

PSY 190	Statistics for the Behavioral Sciences*	4
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
MATH 170	Elements of Calculus*	4
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4

\*Prerequisite

Total: 26-27

## COMPUTER INFORMATION TECHNOLOGY/CYBERSECURITY Certificate of Achievement

### Description

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Cybersecurity. The courses needed for the certificate are designed for those wishing to pursue a career in cybersecurity.

To acquire the **Certificate of Achievement in Computer Information Technology/Cybersecurity**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 10</b>
CIT 101	Introduction to Computer Information Technology	3
CIT 127	Python Programming I*	3
CIT 180	PC Maintenance - A+ Certification*	4
<b>Select one course from the following:</b>		<b>Units: 3</b>
CIT 171	Network +*	3
CIT 210	Cisco® Networking I*	3
<b>Select two courses from the following:</b>		<b>Units: 6</b>
CIT 170	Server +*	3
CIT 192	Security +*	3
CIT 200	Systems Analysis and Design*	3
CIT 214	Cisco Networking II*	3
CIT 221	Ethical Hacking*	3
MGMT 208	Business Communications*	3
<b>Select one course from the following:</b>		<b>Units: 4</b>
PSY 190	Statistics for the Behavioral Sciences*	4
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
MATH 170	Elements of Calculus*	4
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4

\*Prerequisite

Total: 23

# COMPUTER INFORMATION TECHNOLOGY/CYBERSECURITY TECHNICIAN Certificate of Achievement

## Description

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The following curriculum meets the requirement for a **Certificate of Achievement in Computer Information Technology/Cybersecurity Technician**. The courses needed for the certificate are designed for those wishing to pursue a career as a computer support specialist.

To acquire the **Certificate of Achievement in Computer Information Technology/Cybersecurity Technician**, it is necessary to complete the following courses:

Required Courses		Units: 16
CIT 101	Introduction to Computer Information Technology	3
CIT 170	Server + *	3
CIT 171	Network + *	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 192	Security + *	3

\*Prerequisite

Total: 16

# COMPUTER INFORMATION TECHNOLOGY/CYBERSECURITY/ETHICAL HACKER Certificate of Achievement

## Description

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The following curriculum meets the requirement for a **Certificate of Achievement in Computer Information Technology/Ethical Hacker**. The courses needed for the certificate are designed for those wishing to pursue a career in ethical hacking.

To acquire the **Certificate of Achievement in Computer Information Technology/Ethical Hacker**, it is necessary to complete the following courses:

Required Courses		Units: 22
CIT 101	Introduction to Computer Information Technology	3
CIT 127	Python Programming I*	3
CIT 170	Server + *	3
CIT 171	Network + *	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 192	Security + *	3
CIT 221	Ethical Hacking*	3

\*Prerequisite

Total: 22

# COMPUTER INFORMATION TECHNOLOGY/DESKTOP TECHNICIAN Career Certificate

## Description

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This curriculum is designed to prepare students for employment as entry level Desktop Support Technicians. Students that successfully complete the Desktop Technician certificate will be able to install, operate, upgrade, deploy and troubleshoot personal computers and Windows based workstations. This certificate also prepares students to pass the CompTIA Security+ examination and the Windows Operating System examination.

**Required Courses****Units: 13**

CIT 101	Introduction to Computer Information Technology	3
CIT 130	Windows Configuration	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 192	Security +*	3

\*Prerequisite

Total: 13

## COMPUTER INFORMATION TECHNOLOGY/ENTRY NETWORK TECHNICIAN Certificate of Achievement

**Description**

This curriculum is designed to prepare students for employment as entry-level network technicians. Students that successfully complete the Entry Network Technician certificate will be able to install, operate and troubleshoot small enterprise networks and perform basic network security.

To acquire the **Certificate of Achievement in Computer Information Technology/Entry Network Technician**, it is necessary to complete the following courses:

**Required Courses****Units: 12**

CIT 101	Introduction to Computer Information Technology	3
CIT 192	Security +*	3
CIT 210	Cisco® Networking I*	3
CIT 214	Cisco Networking II*	3

\*Prerequisite

Total: 12

## COMPUTER INFORMATION TECHNOLOGY/INFORMATION SYSTEMS AND TECHNOLOGY Associate of Science Degree

**Description**

The following curriculum meets the requirement for a Degree in Computer Information Technology/ Information Systems and Technology. The courses needed for the degree are designed for those wishing to pursue a career in cybersecurity.

To acquire the **Associate of Science Degree in Computer Information Technology/Information Systems and Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Required Courses****Units: 22**

MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
CIT 101	Introduction to Computer Information Technology	3
CIT 111	Introduction to Programming	3
CIT 192	Security +*	3
CIT 200	Systems Analysis and Design*	3
CIT 210	Cisco® Networking I*	3
BUSL 110	Legal Environment of Business	3

<b>Select One Course from the following:</b>		<b>Units: 4</b>
MATH 160	College Algebra*	4
MATH 170	Elements of Calculus*	4
MATH 180	Pre-Calculus*	4
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4

**Choose One Option from the following:** **Units: 6-8**

**Cybersecurity Option**

ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ACCT 102	Managerial Accounting*	4
OR		
ACCT 102H	Managerial Accounting Honors*	4

**Communications Option**

CIT 214	Cisco Networking II*	3
MGMT 208	Business Communications*	3

Total: 32-34

## COMPUTER INFORMATION TECHNOLOGY/NETWORK ADMINISTRATOR Associate of Science Degree

### Description

The following curriculum meets the requirement for an **Associate of Science Degree in Computer Information Technology/Network Administrator**. The courses needed for the degree are designed for those who wish to pursue a career in Information Technology as a Network Administrator.

To acquire the **Associate of Science Degree in Computer Information Technology/Network Administrator**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 28</b>
ACCT 100	Introduction to Accounting	3
MGMT 101	Introduction to Business	3
MGMT 108	Business Writing	3
CIT 101	Introduction to Computer Information Technology	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 192	Security +*	3
CIT 210	Cisco® Networking I*	3
CIT 214	Cisco Networking II*	3
CIT 215	Cisco Networking III*	3

\*Prerequisite

Total: 28



# COMPUTER INFORMATION TECHNOLOGY/NETWORK ADMINISTRATOR

## Certificate of Achievement

### Description

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The following curriculum meets the requirement for a **Certificate of Achievement in Computer Information Technology/Network Administrator**. The courses needed for the certificate are designed for those who wish to pursue a career in Information Technology as a Network Administrator.

To acquire the **Certificate of Achievement in Computer Information Technology/Network Administrator**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses		Units: 19
CIT 101	Introduction to Computer Information Technology	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 192	Security +*	3
CIT 210	Cisco® Networking I*	3
CIT 214	Cisco Networking II*	3
CIT 215	Cisco Networking III*	3

\*Prerequisite

Total: 19

# COMPUTER INFORMATION TECHNOLOGY/NETWORK TECHNICIAN

## Certificate of Achievement

### Description

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The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Network Technician. The courses needed for the certificate are designed for those who wish to pursue a career in Information Technology as a Network Technician.

To acquire the **Certificate of Achievement in Computer Information Technology/Network Technician** it is necessary to complete the following courses:

Required Courses		Units: 15
CIT 101	Introduction to Computer Information Technology	3
CIT 192	Security +*	3
CIT 210	Cisco® Networking I*	3
CIT 214	Cisco Networking II*	3
CIT 215	Cisco Networking III*	3

\*Prerequisite

Total: 15

## COMPUTER INFORMATION TECHNOLOGY/PC REPAIR TECHNICIAN Career Certificate

### Description

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This curriculum is designed to prepare students for employment as entry level PC Repair Technicians. Students that successfully complete the **PC Repair Technician certificate** will be able to install, operate, upgrade and troubleshoot personal computers. This certificate also prepares students to pass the CompTIA A+ examination.

#### Required Courses Units: 10

CIT 101	Introduction to Computer Information Technology	3
CIT 130	Windows Configuration	3
CIT 180	PC Maintenance - A+ Certification*	4

\*Prerequisite

Total: 10

## COMPUTER INFORMATION TECHNOLOGY/SYSTEM ADMINISTRATOR Associate of Science Degree

### Description

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The following curriculum meets the requirement for an **Associate of Science Degree in Computer Information Technology/System Administrator**. The courses needed for the degree are designed to prepare students for employment in Computer Information Technology as a System Administrator with the option to focus on Microsoft Server Operating Systems or Linux Server Operating Systems.

To acquire the **Associate of Science Degree in Computer Information Technology/System Administrator**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses Units: 25

ACCT 100	Introduction to Accounting	3
MGMT 101	Introduction to Business	3
MGMT 108	Business Writing	3
CIT 101	Introduction to Computer Information Technology	3
CIT 130	Windows Configuration	3
CIT 160	Introduction to Operating Systems	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 192	Security +*	3

\*Prerequisite

#### Choose MS Windows Server Option or Red Hat Linux Option Units: 6

CIT 131	Windows Server Active Directory	3
CIT 133	Windows Server Applications Infrastructure	3
OR		
CIT 139	Linux I*	3
CIT 140	Linux II*	3

Total: 31

# COMPUTER INFORMATION TECHNOLOGY/SYSTEM ADMINISTRATOR Certificate of Achievement

## Description

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The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/System Administrator. The courses needed for the certificate are designed to prepare students for employment in Computer Information Technology as a System Administrator with the option to focus on Microsoft Server operating Systems or Linux Server Operating Systems.

To acquire the **Certificate of Achievement in Computer Information Technology/System Administrator**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses		Units: 16
CIT 101	Introduction to Computer Information Technology	3
CIT 130	Windows Configuration	3
CIT 160	Introduction to Operating Systems	3
CIT 180	PC Maintenance - A+ Certification*	4
CIT 192	Security +*	3

\*Prerequisite

Chooses MS Windows Server Option or Red Hat Linux Option		Units: 6
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CIT 131	Windows Server Active Directory	3
CIT 133	Windows Server Applications Infrastructure	3
OR		
CIT 139	Linux I*	3
CIT 140	Linux II*	3

Total: 22



## COMPUTER SCIENCE Associate in Science for Transfer

## Description

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The **Associate in Science in Computer Science for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Computer Science majors (or similar majors) at a CSU campus that offers a Computer Science baccalaureate degree.

This degree is designed for students interested in an introduction to the field of Computer Science. Computer Science is the study of representational computation, data access methods, programming languages, algorithmic modeling, software design, testing and development. Students in the Computer Science program study and apply their knowledge of mathematics, physics and logic to solve a variety of problems using current technology. Coursework includes programming languages and concepts, systems analysis, mathematics, physics, computer hardware and data structures.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Computer Science:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis

and the "P" is equal to a "C" or better.

4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Computer Science major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 24</b>
CIT 127	Python Programming I*	3
CIT 128	Python Programming II*	3
CS 142	Computer Architecture and Organization*	3
CS 152	Discrete Structures*	3
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
PHY 211	Physics for Scientists & Engineers - I*	4

<b>Choose one course from the following:</b>		<b>Units: 4-5</b>
PHY 213	Physics for Scientists & Engineers - III*	4
BIOL 200	Principles of Biology 1 (Molecular and Cellular Biology)*	5
CHEM 130	General Chemistry I*	5

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 28-29

## **CONSTRUCTION MANAGEMENT**

### **Associate of Science Degree**

#### **Description**

The identified curriculum will prepare students for employment or transfer to university– specifically with respect to construction management. The coursework incorporates concepts and theory of construction as well as practical application of construction management tasks. The degree additionally provides a framework of study that is common in bachelor’s-level programs for explicitly this field of study.

To acquire the **Associate of Science Degree in Construction Management**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 37</b>
ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ARCH 110	Construction Document Reading and Estimating	3
ARCH 125	Residential Architecture: Design & Construction*	4
ARCH 225	Commercial Architecture: Design and Construction*	4
BUSL 110	Legal Environment of Business	3
CIV 140	Civil Engineering & Construction Fundamentals	4
CIV 142	Introduction to Land Surveying and GPS	4
CIV 210	Concrete Technology and Testing	2

ENGT 100	Introduction to Engineering (Same as ENGR 100)	2
OR		
ENGR 100	Introduction to Engineering (same as ENGT 100)	2
ENGR 235	Engineering Mechanics: Statics*	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4

\*Prerequisite

Total: 37

## CORRECTIONS

### Associate of Science Degree

#### Description

The correctional program is designed to prepare students to enter the field of corrections as competent correctional officers, counselors, probation or parole aides, or paraprofessional volunteers for any correctional agency. The student may elect to transfer to a four-year college or seek entry-level employment in a correctional agency.

The courses will provide an academic as well as a practical training program. This will train persons seeking to enter the field of corrections and will increase the education of persons already employed in corrections and may also be beneficial to update the skills and knowledge of professional workers in the field of corrections.

The Associate of Science Degree requires 24 units in Corrections. This pattern of courses has been endorsed by the Joint Apprenticeship Committee of the California Department of Corrections, California Youth Authority and California Correctional Peace Officers Association as a program which would be of benefit to apprentices.

To acquire the **Associate of Science Degree in Corrections**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses

**Units: 18**

AJ 041	Effective Written Communication for Public Service Personnel	3
CORR 101	Introduction to Corrections	3
CORR 104	Control and Supervision in Corrections	3
CORR 106	Legal Aspects of Corrections	3
CORR 134	Introduction to Interviewing and Counseling Skills for Correctional Officers	3
CORR 235	Conflict Resolution for the Correctional Officer	3

#### Plus 6 units selected from the following courses:

**Units: 6**

AJ 101	Introduction to Administration of Justice	3
AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues Within Public Service	3
AJ 106	Criminal Law I*	3
AJ 107	Criminal Law II*	3
AJ 207	Juvenile Law and Procedure	3
AJ 208	Principles of Investigation	3
AJ 215	Vice and Narcotics Control	3
AJ 228	Police Field Operations	3
AJ 250	Contemporary Issues in the Criminal Justice System	3
AJ 275	Introduction to Forensic Science	3
CORR 208	Leadership in Corrections	3
CORR 209	Case Load Management	3
CORR 210	Supervision in Public Safety	3
CORR 264	Inmate Discipline in Corrections	3

CORR 265	Supervision of Sex Offenders	3
CORR 190	Public Safety Communications (formerly CORR 290)	3

\*Prerequisite

Total: 24

## CORRECTIONS

### Certificate of Achievement

#### Description

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The **Certificate of Achievement in Corrections** is designed to prepare students to meet the needs of entry-level positions in the field of corrections. The curriculum prepares students with a foundation in administration of justice/law enforcement, and provides them with the knowledge to enter varied career areas. The skills developed during class will enhance the student's knowledge in the area of corrections.

To acquire the **Certificate of Achievement in Corrections**, it is necessary to complete the following courses:

Required Courses		Units: 12
CORR 101	Introduction to Corrections	3
CORR 104	Control and Supervision in Corrections	3
CORR 106	Legal Aspects of Corrections	3
CORR 134	Introduction to Interviewing and Counseling Skills for Correctional Officers	3
		Total: 12

## CREATIVE WRITING

### Certificate of Achievement

#### Description

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The Creative Writing Certificate provides students with the academic preparation and skill set needed to demonstrate their ability to author works in creative writing, including works for personal development and/or professional application. Completion of the required courses formalizes students' creative writing abilities applied across a variety of genres.

To acquire a **Certificate of Achievement in Creative Writing**, it is necessary to complete the following courses:

Required courses:		Units: 12.5
ENGL 101	College Composition and Research*	3.5
ENGL 131	Creative Writing*	3
ENGL 231	Advanced Creative Writing*	3
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
Select three of the following:		Units: 9
LIT 114	Children's and Adolescent Literature*	3
OR		
LIT 114H	Children's and Adolescent Literature Honors*	3
LIT 140	Introduction to the Novel*	3
OR		
LIT 140H	Introduction to the Novel Honors*	3
LIT 141	Introduction to Poetry*	3
OR		
LIT 141H	Introduction to Poetry Honors*	3

LIT 145	Introduction to the Short Story*	3
OR		
LIT 145H	Introduction to the Short Story Honors*	3
THTR 160	Introductory Playwriting Screenwriting	3

\*Prerequisite

Total: 21.5

## CREATIVE WRITING/NOVEL WRITING

### Certificate of Achievement

#### Description

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The Novel Writing Certificate provides students with the academic preparation and skill set needed to demonstrate their ability to author novels, including works for personal development and/or professional application. Completion of the required courses formalizes students' novel writing abilities.

To acquire a **Certificate of Achievement in Novel Writing**, it is necessary to complete the following courses:

<b>Required courses:</b>		<b>Units: 15.5</b>
ENGL 101	College Composition and Research*	3.5
ENGL 131	Creative Writing*	3
ENGL 231	Advanced Creative Writing*	3
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
LIT 140	Introduction to the Novel*	3
OR		
LIT 140H	Introduction to the Novel Honors*	3

\*Prerequisite

Total: 15.5

## CREATIVE WRITING/PLAYWRITING AND SCREENWRITING

### Certificate of Achievement

#### Description

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The Playwriting and Screenwriting Certificate provides students with the academic preparation and skill set needed to demonstrate their ability to author scripts, including works for personal development and/or professional application. Completion of the required courses formalizes students' script writing abilities.

To acquire a **Certificate of Achievement in Playwriting and Screenwriting**, it is necessary to complete the following courses:

<b>Required courses:</b>		<b>Units: 15.5</b>
ENGL 101	College Composition and Research*	3.5
ENGL 131	Creative Writing*	3
ENGL 231	Advanced Creative Writing*	3
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
THTR 160	Introductory Playwriting Screenwriting	3



\*Prerequisite

Total: 15.5

## CREATIVE WRITING/POETRY WRITING Certificate of Achievement

### Description

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The Poetry Writing Certificate provides students with the academic preparation and skill set needed to demonstrate their ability to author poetry, including works for personal development and/or professional application. Completion of the required courses formalizes students' poetry writing abilities.

To acquire a **Certificate of Achievement in Poetry Writing**, it is necessary to complete the following courses:

<b>Required courses:</b>		<b>Units: 15.5</b>
ENGL 101	College Composition and Research*	3.5
ENGL 131	Creative Writing*	3
ENGL 231	Advanced Creative Writing*	3
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
LIT 141	Introduction to Poetry*	3
OR		
LIT 141H	Introduction to Poetry Honors*	3

\*Prerequisite

Total: 15.5

## CREATIVE WRITING/SHORT STORY WRITING Certificate of Achievement

### Description

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The Short Story Writing Certificate provides students with the academic preparation and skill set needed to demonstrate their ability to author short stories, including works for personal development and/or professional application. Completion of the required courses formalizes students' short story writing abilities.

To acquire a **Certificate of Achievement in Short Story Writing**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 15.5</b>
ENGL 101	College Composition and Research*	3.5
ENGL 131	Creative Writing*	3
ENGL 231	Advanced Creative Writing*	3
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
LIT 145	Introduction to the Short Story*	3
OR		
LIT 145H	Introduction to the Short Story Honors*	3

\*Prerequisite

Total: 15.5

## CREATIVE WRITING/WRITING FOR CHILDREN

### Certificate of Achievement

#### Description

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The Writing for Children Certificate provides students with the academic preparation and skill set needed to demonstrate their ability to author literature for children, including works for personal development and/or professional application. Completion of the required courses formalizes students' writing abilities as they apply to writing for children and adolescents.

To acquire a **Certificate of Achievement in Writing for Children**, it is necessary to complete the following courses:

Required courses:		Units: 15.5
ENGL 101	College Composition and Research*	3.5
ENGL 131	Creative Writing*	3
ENGL 231	Advanced Creative Writing*	3
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
LIT 114	Children's and Adolescent Literature*	3
OR		
LIT 114H	Children's and Adolescent Literature Honors*	3

\*Prerequisite

Total: 15.5

## CSU GE

### Certificate of Achievement

#### Description

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The California State University General Education Breadth (CSU-GE Breadth) pattern is a set of courses designed to fulfill all lower-division general education requirements for California State University campuses, as well as lead to a certificate of achievement at Rio Hondo College.

To acquire the Certificate of Achievement in CSU-GE Breadth, courses must have been approved for the CSU-GE Breadth area during the term in which the course was taken (please verify approval dates on [www.ASSIST.org](http://www.ASSIST.org)). A grade of "C-" or better is required for courses taken in Areas A1, A2, A3, and B4.

## DANCE

### Associate of Arts Degree

#### Description

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The **Associate of Arts in Dance** is a comprehensive two-year program promoting both high artistic and technical standards. The degree fulfills the needs of students seeking professions in dance as performers, choreographers, and/or dance educators and provides training for careers and employment in the performing arts, education, choreography, movement therapy, studio and arts management, arts consultancy, dance criticism, fitness, and community dance programs. An integral part of the AA in Dance is to prepare students for matriculation into Bachelor of Arts or Bachelor of Fine Arts program at a four-year college or university. See admission requirements of individual colleges and universities and transfer requirements for specific majors.

To acquire an **Associate of Arts Degree in Dance**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Required Courses****Units: 11****Dance Technique**

DANC 114	Conditioning & Alignment for the Dancer	1
DANC 151	Modern Dance I	1
DANC 153	Ballet I	1
DANC 251	Modern Dance II*	1
DANC 253	Ballet II*	1

**Dance Theory**

DANC 159	Choreography I	3
DANC 179	Dance History	3
OR		
DANC 179H	Dance History Honors*	3

\*Prerequisite

**Choose 4 units from the following category:****Dance Performance**

DANC 152	Dance Rehearsal and Performance	3
DANC 162	Dance Production	3
DANC 172	Dance Repertory	3
DANC 180	Performance	1
DANC 182	Dance Ensemble	3

**Required Subtotal 15 units****Choose 4 units from the following categories: (Dance Styles, Body Conditioning, Arts Related Fields, and/or Kinesiology and Exercise Science, - no more than 3 units from and Single category)****Units: 4**

Note: Only one experience in repeatable dance classes can be used to meet degree requirements.

**Dance Styles**

DANC 150	Introduction to World Dance	1
DANC 154	Jazz Dance I	1
DANC 157	Hip-Hop Dance	1
DANC 254	Jazz Dance II*	1

**Body Conditioning**

KINA 136	Pilates Mat I	1
KINA 139	Cross Training for Fitness	1
KINA 148	Strength Training	1
KINA 158	Yoga I	1
KINA 258	Yoga II*	1

**Arts Related Fields**

DANC 199	Dance Appreciation	3
OR		
DANC 199H	Dance Appreciation Honors*	3
MUS 130	Music History and Literature Before 1750	3
MUS 131	Music History and Literature after 1750	3
MUS 133	Music Appreciation	3
THTR 110	Principles of Acting I	3
THTR 111	Principles of Acting II*	3
THTR 150	Stagecraft I for Theatre, TV, and Film	3

THTR 151	Stagecraft II for Theatre, TV, and Film*	3
THTR 152	Stagecraft III for Theatre, TV, and Film*	3

### Kinesiology and Exercise Science

KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
KIN 127	Exercise Physiology	3
KIN 128	Fitness Testing and Exercise Prescription	3
KIN 131	Functional Anatomy of Movement	3
KIN 145	Theory and Analysis of Fitness Instruction	2
KIN 146	Training Principles for Special Populations	2

Total: 19

## DANCE

### Certificate of Achievement

#### Description

The Dance Certificate Program provides students with a core curriculum in contemporary dance practice and theory and prepares them for careers in dance education and dance performance. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with a solid foundation so that they may pursue a job in private studios, recreational centers, gyms, colleges, after-school programs, dance companies, television, film, and musical theater.

Courses cover a range of styles and subjects in dance, including ballet, modern, jazz, hip hop, Latin social dance, conditioning and alignment for dance, choreography, performance, dance history, and instructional theory and analysis. The intent of this program is to prepare students for dance auditions, internships, and immediate entry-level employment in the field of dance education and dance performance. All credits may be applied to the Associate in Arts degree in Dance.

To acquire the **Certificate of Achievement in Dance**, it is necessary to complete the following courses:

Required Courses	Units: 18	
DANC 114	Conditioning & Alignment for the Dancer	1
DANC 151	Modern Dance I	1
DANC 251	Modern Dance II*	1
DANC 153	Ballet I	1
DANC 253	Ballet II*	1
DANC 154	Jazz Dance I	1
OR		
DANC 157	Hip-Hop Dance	1
OR		
DANC 167	Latin Dance for Fitness	1
DANC 159	Choreography I	3
DANC 179	Dance History	3
OR		
DANC 179H	Dance History Honors*	3
DANC 152	Dance Rehearsal and Performance	3
OR		
DANC 162	Dance Production	3
OR		
DANC 172	Dance Repertory	3
OR		
DANC 182	Dance Ensemble	3
DANC 180	Performance	1
KIN 145	Theory and Analysis of Fitness Instruction	2

\*Prerequisite

Total: 18

## DRAFTING/TECHNICAL DRAWING

### Certificate of Achievement

#### Description

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The following Technical Drawing curriculum will lead to the Certificate of Achievement and prepare students for employment as an early entry level technician in the field of Architecture, Civil and Engineering Design Drafting / Drawing. Students will develop skill-based training techniques and knowledge of technical drawing industry standards that will also prepare them for advanced studies in the pursuit of more advanced certificates or degrees for transfer.

To acquire the **Certificate of Achievement in Technical Drawing**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 16</b>
ARCH 115      Introduction to Residential Architecture: Drawing and Design	4
CIV 140        Civil Engineering & Construction Fundamentals	4
ENGT 101      Introduction to Technical Drawing & Graphics	3
ENGT 105      Introduction to Visualization, Sketching, & Rendering	2
ENGT 122      Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	3
<b>Choose one course from the following:</b>	<b>Units: 4</b>
ENGT 150      AutoCAD for Basic CADD Applications	4
OR	
ENGT 170      MicroStation for Basic CADD Applications	4
<b>Total: 20</b>	

## DRUG STUDIES

### Associate of Science Degree

#### Description

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The following curriculum meets the requirement for an **Associate of Science Degree in Drug Studies**. The Drug Studies Program is accredited by the California Association of Alcohol and Drug Educators (CAADE). The courses needed for the degree are designed to serve as preparation for a career in the helping professions. These courses may also serve students who wish to further their education in Human Services or other helping professions.

To acquire the **Associate of Science Degree in Drug Studies**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>	<b>Units: 36-38</b>
HUSR 118      Chemical Dependency: Intervention, Treatment & Recovery	3
HUSR 122      Introduction to Group Leadership and Process	3
HUSR 123      Drug Education and Prevention	3
OR	
HUSR 128      Chemical Dependency and Co-Occurring Disorders	3
HUSR 124      Introduction to Case Management and Documentation	3
HUSR 126      Counseling the Family of the Addicted Person	3
HUSR 130      Essential Counseling Skills	3
HUSR 135      Law and Ethics in Human Services	3
HUSR 136      Diverse Populations in Human Services	3
HUSR 199A     Seminar in Human Services*	1
HUSR 199B     Fieldwork in Human Services *	2-3
HUSR 230A     Drug Studies Seminar*	1
HUSR 230B     Drug Studies Internship*	2-3
PSY 121        Drugs, Society, and Behavior	3

PSY 127	Introduction to the Physiological Effects of Drugs of Abuse	3
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**Choose two courses from the list below:**

**Units: 6**

HUSR 111	Human Services in Contemporary Society	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
PSY 112	Lifespan Development	3
PSY 114	Introduction to Abnormal Psychology	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3

\*Prerequisite

Total: 42-44

## DRUG STUDIES

### Certificate of Achievement

#### Description

The Drug Studies Program provides the student with the academic preparation and field experience needed to work with the drug dependent and their families. The Certificate is accredited by the California Association of Alcohol and Drug Educators (CAADE). Completion of the required courses provides the educational component necessary for certification as a Certified Addiction Treatment Specialist through CAADE. The courses that comprise the Certificate are designed for those who are working with or want to work with drug dependent populations, providing a broad base of knowledge regarding approaches to drug education and prevention, treatment issues, counseling skills, ethical issues, and practical knowledge about drugs and their effects.

To acquire the **Certificate of Achievement in Drug Studies**, it is necessary to complete the following courses with a grade of "C" or better:

**Required Courses**

**Units: 36-38**

HUSR 118	Chemical Dependency: Intervention, Treatment & Recovery	3
HUSR 122	Introduction to Group Leadership and Process	3
HUSR 123	Drug Education and Prevention	3
OR		
HUSR 128	Chemical Dependency and Co-Occurring Disorders	3
HUSR 124	Introduction to Case Management and Documentation	3
HUSR 126	Counseling the Family of the Addicted Person	3
HUSR 130	Essential Counseling Skills	3
HUSR 135	Law and Ethics in Human Services	3
HUSR 136	Diverse Populations in Human Services	3
HUSR 199A	Seminar in Human Services*	1
HUSR 199B	Fieldwork in Human Services *	2-3
HUSR 230A	Drug Studies Seminar*	1
HUSR 230B	Drug Studies Internship*	2-3
PSY 121	Drugs, Society, and Behavior	3
PSY 127	Introduction to the Physiological Effects of Drugs of Abuse	3

**Choose two courses from the list below:**

**Units: 6**

HUSR 111	Human Services in Contemporary Society	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
PSY 112	Lifespan Development	3

PSY 114	Introduction to Abnormal Psychology	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3

\*Prerequisite

Total: 42-44



## ECONOMICS

### Associate in Arts for Transfer

#### Description

The **Associate in Arts in Economics for Transfer AA-T Degree** is intended to meet lower division requirements for economics majors (or similar majors) at a CSU campus that offers an economics baccalaureate degree.

An economics education provides the student with a logical way of approaching various problems and issues and provides valuable qualitative skills. The student learns techniques for analyzing contemporary economic problems and develops the ability to exercise sound judgement in evaluating public policy issues.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Economics:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Economics major at the CSU where they seek transfer.

#### Required Courses

**Units: 14**

ECON 101	Principles of Macroeconomics*	3
OR		
ECON 101H	Principles of Macroeconomics Honors*	3
ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
MATH 170	Elements of Calculus*	4
OR		
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4

\*Prerequisite

**Choose one course from the following list:**

**Units: 3-4**



ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ACCT 102	Managerial Accounting*	4
OR		
ACCT 102H	Managerial Accounting Honors*	4
CIT 101	Introduction to Computer Information Technology	3

**Choose one course from the following list: Units: 3**

ECON 135	International Political Economy	3
OR		
POLS 135	International Political Economy (same as ECON 135)	3

**CSU GE or IGTC Pattern (Units will vary)**

**Transferable Electives (as needed to reach 60 transferable units)**

**DEGREE TOTAL 60 units**

Total: 20-21

## ELECTRIC VEHICLE AND FUEL CELL TECHNOLOGY TECHNICIAN

### Associate of Science Degree

#### Description

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The **Associate of Science in Electric Vehicle and Fuel Cell Technology Technician** prepares students to address needs in the emerging field of servicing and diagnosing green vehicles, including electric, hybrid, plug-in hybrid, and fuel cell automobiles. Students need to apply for the Automotive Service Excellence (ASE) Light Duty/Hybrid/Electric Vehicle Specialist Test (L3) and pay all applicable fees to take the final ASE exam. This degree is intended to be the capstone of the Hybrid/Electric/Fuel Cell Program.

To acquire the **Associate of Science in Electric Vehicle and Fuel Cell Technology Technician**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE) pattern, or Intersegmental General Education Transfer Curriculum (IGETC) pattern.

<b>Required Courses</b>		<b>Units: 23</b>
AUTO 106	Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 131	Automotive EV Electronics I*	3
AUTO 132	Automotive EV Electronics II*	3
AUTO 147	Introduction to Hybrid and Electric Vehicle Technology*	3
AUTO 157	Automotive Specialized Electronics Training*	4
AUTO 260	Advanced Hybrid/Electric Vehicle*	4
AUTO 266	Fuel Cell Technology Fundamentals*	3

\*Prerequisite

Total: 23

## ELECTRIC VEHICLE AND FUEL CELL TECHNOLOGY TECHNICIAN

### Certificate of Achievement

#### Description

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The Electric Vehicle and Fuel Cell Technology Technician Certificate of Achievement prepares students to address needs in the emerging field of servicing and diagnosing green vehicles, including electric, hybrid, plug-in hybrid, and fuel cell automobiles. Hydrogen safety and National Fire Protection Association (NFPA) 2 regulations are discussed in this course of study. Student

will need to apply for the Automotive Service Excellence (ASE) Light Duty/Hybrid/Electric Vehicle Specialist Test (L3), and pay all applicable fees to take the final ASE exam.

To acquire the **Certificate of Achievement in Electric Vehicle and Fuel Cell Technology Technician**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 14</b>
AUTO 147	Introduction to Hybrid and Electric Vehicle Technology*	3
AUTO 157	Automotive Specialized Electronics Training*	4
AUTO 260	Advanced Hybrid/Electric Vehicle*	4
AUTO 266	Fuel Cell Technology Fundamentals*	3

\*Prerequisite

Total: 14

## ELECTRONICS TECHNOLOGY

### Associate of Science Degree

#### Description

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To acquire the **Associate of Science Degree in Electronics Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 32</b>
ELEC 101	DC Electronic Circuits and Devices	4
ELEC 102	AC Electronic Circuits and Devices	4
ELEC 108	Introduction to Solid State Devices and Circuits*	4
ELEC 109	Linear Analog Circuits and Devices*	4
ELEC 111	Introduction to Digital Electronics*	4
ELEC 208	Advanced Solid State Devices and Circuits*	4
ELEC 211	Advanced Digital Electronics*	4
ELEC 240	Microprocessors and Microcomputing*	4

\*Prerequisite

Total: 32

## ELECTRONICS TECHNOLOGY

### Certificate of Achievement

#### Description

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To acquire the **Certificate of Achievement in Electronics Technology**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 24</b>
ELEC 101	DC Electronic Circuits and Devices	4
ELEC 102	AC Electronic Circuits and Devices	4
ELEC 108	Introduction to Solid State Devices and Circuits*	4
ELEC 111	Introduction to Digital Electronics*	4
ELEC 211	Advanced Digital Electronics*	4
ELEC 240	Microprocessors and Microcomputing*	4



## ELEMENTARY TEACHER EDUCATION

### Associate in Arts for Transfer

#### Description

The Associate in Arts Elementary Teacher Education for Transfer (AA-T) Degree is intended to meet the lower division requirements for Elementary Teacher Education majors (or similar majors) at a CSU campus that offers baccalaureate degrees.

This degree is designed for students interested in an introduction to the field of Liberal Studies, Integrated Teachers Education and for students looking to further their understanding of Elementary Teacher Education. These courses will provide students with a solid foundation in Elementary Teacher Education that will serve them for transferring to a California State University.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Elementary Teacher Education.**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for courses accepted into the Elementary Teacher Education major at the CSU where they seek transfer.

#### Required Courses

**Units: 52**

BIOL 101	General Biology	4
CD 106	Child Growth and Development	3
ED 110	Introduction to Teaching	3
ENGL 101	College Composition and Research*	3.5
ENGL 201	Advanced Composition and Critical Thinking*	3.5
OR		
ENGL 201H	Advanced Composition and Critical Thinking Honors*	3.5
GEOL 150	Physical Geology	3
GEOL 151	Physical Geology Laboratory	1
GEOG 103	World Regional Geography	3
HIST 101	History of World Civilization to the 17th Century	3
HIST 143	History of the United States to 1877	3
OR		
HIST 143H	History of the United States to 1877 Honors*	3
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
MATH 140	Mathematics for Elementary Teachers*	4
PHY 120	Physics for Everyday Use*	4
CHEM 120	Introduction to Chemistry*	5
POLS 110	Government of the United States	3
OR		
POLS 110H	Government of the United States Honors*	3

SPCH 101	Public Speaking	3
OR		
SPCH 101H	Public Speaking Honors*	3
<b>Choose one course from the following list:</b>		<b>Units: 3</b>
ART 105	Survey of Western Art: Prehistory through the Middle Ages	3
OR		
ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors*	3
ART 110	Understanding Visual Art	3
DANC 199	Dance Appreciation	3
OR		
DANC 199H	Dance Appreciation Honors*	3
MUS 133	Music Appreciation	3
THTR 101	Theatre Arts Appreciation	3
<b>CSU GE or IGETC Pattern (Units will vary)</b>		
<b>Transferable Electives as needed to reach 60 transferable units</b>		
<b>DEGREE TOTAL 60 units</b>		

\*Prerequisite

Total: 55

## ELEMENTARY TEACHER EDUCATION

### Certificate of Achievement

#### Description

This Certificate of Achievement is meant to be an introduction of the skills required in Elementary Education for students interested in Elementary Education majors (or similar majors) at a CSU that offers baccalaureate degrees.

To acquire the **Certificate of Achievement in Elementary Teacher Education**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 12</b>
CD 106	Child Growth and Development	3
ED 110	Introduction to Teaching	3
COUN 101	College and Life Success	3
OR		
EDEV 101	College and Life Success (Same as COUN 101)	3
SPCH 101	Public Speaking	3
OR		
SPCH 101H	Public Speaking Honors*	3

\*Prerequisite

Total: 12

## EMERGENCY MEDICAL TECHNICIAN

### Certificate of Skill Proficiency

#### Description

This Emergency Medical Technician Certificate program prepares entry-level EMTs to stabilize and transport patients safely to a place of medical care.

To acquire the **Certificate of Skill Proficiency in Emergency Medical Technician**, it is necessary to complete the following:

<b>Required Courses</b>		<b>Units: 9</b>
EMT 093	Emergency Medical Technician*	9

\*Prerequisite

Total: 9

## ENGINEERING

### Associate of Science Degree

#### Description

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The **Associate of Science Degree in Engineering** will prepare those students interested in laying a foundation for further study and for a bachelor's degree in an engineering field from a four-year college or university.

This degree program is for the **Associate of Science Degree in Engineering** only and fulfills many of the requirements and foundation courses for transfer to baccalaureate engineering-related majors, but does not satisfy all transfer requirements for specific institutions. Students should consult with a counselor for major preparation for specific universities and colleges.

To acquire the **Associate of Science Degree in Engineering**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 16</b>
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
PHY 211	Physics for Scientists & Engineers - I*	4
PHY 213	Physics for Scientists & Engineers - III*	4

\*Prerequisite

**Plus a minimum of 20 units from one of the following areas of specialization, including at least 3 units of Engineering courses listed in that area.** **Units: 20-22**

#### **Mechanical, Aerospace, and Manufacturing Engineering**

ENGR 100	Introduction to Engineering (same as ENGT 100)	2
ENGR 141	Materials Science and Engineering*	3
AND		
ENGR 141L	Materials Science and Engineering Lab*	1
ENGR 212	Computational Methods in MATLAB/Octave*	4
ENGR 217	Electric Circuit Analysis*	3
ENGR 217L	Electric Circuit Analysis Lab*	1
ENGR 235	Engineering Mechanics: Statics*	3
ENGR 240	Strength of Materials*	3
ENGR 245	Engineering Mechanics: Dynamics*	3
ENGT 122	Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	3
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
MATH 250	Calculus III*	4
MATH 251	Linear Algebra and Differential Equations*	5
OR		
MATH 260	Linear Algebra*	4

OR			
MATH 270	Differential Equations *		4
OR			
MATH 260	Linear Algebra*		4
AND			
MATH 270	Differential Equations *		4
PHY 212	Physics for Scientists & Engineers - II*		4

### Electrical Engineering

ENGR 100	Introduction to Engineering (same as ENGT 100)		2
ENGR 141	Materials Science and Engineering*		3
AND			
ENGR 141L	Materials Science and Engineering Lab*		1
ENGR 212	Computational Methods in MATLAB/Octave		4
ENGR 217	Electric Circuit Analysis*		3
ENGR 217L	Electric Circuit Analysis Lab*		1
ENGR 235	Engineering Mechanics: Statics*		3
CIT 125	Introduction to C++ Programming		4
OR			
CIT 127	Python Programming I*		3
OR			
CIT 135	Introduction to Java Programming		4
CHEM 130	General Chemistry I*		5
MATH 250	Calculus III*		4
MATH 251	Linear Algebra and Differential Equations*		5
OR			
MATH 260	Linear Algebra*		4
OR			
MATH 270	Differential Equations*		4
OR			
MATH 260	Linear Algebra*		4
AND			
MATH 270	Differential Equations*		4
PHY 212	Physics for Scientists & Engineers - II*		4

### Civil Engineering

ENGR 100	Introduction to Engineering (same as ENGT 100)		2
ENGR 141	Materials Science and Engineering*		3
AND			
ENGR 141L	Materials Science and Engineering Lab*		1
ENGR 212	Computational Methods in MATLAB/Octave*		4
ENGR 217	Electric Circuit Analysis*		3
ENGR 235	Engineering Mechanics: Statics*		3
ENGR 240	Strength of Materials*		3
ENGR 245	Engineering Mechanics: Dynamics*		3
CIV 140	Civil Engineering & Construction Fundamentals		4
CIV 142	Introduction to Land Surveying and GPS		4
CHEM 130	General Chemistry I*		5
MATH 250	Calculus III*		4
MATH 251	Linear Algebra and Differential Equations*		5
OR			
MATH 260	Linear Algebra*		4
OR			
MATH 270	Differential Equations*		4
OR			
MATH 260	Linear Algebra*		4
AND			
MATH 270	Differential Equations*		4

PHY 212	Physics for Scientists & Engineers - II*	4
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**Computer, Software Engineering**

ENGR 100	Introduction to Engineering (same as ENGT 100)	2
ENGR 212	Computational Methods in MATLAB/Octave*	4
ENGR 217	Electric Circuit Analysis*	3
ENGR 217L	Electric Circuit Analysis Lab*	1
CIT 125	Introduction to C++ Programming	4
OR		
CIT 135	Introduction to Java Programming	4
CIT 127	Python Programming I*	3
CIT 128	Python Programming II*	3
CS 152	Discrete Structures*	3
MATH 250	Calculus III*	4
MATH 251	Linear Algebra and Differential Equations*	5
OR		
MATH 260	Linear Algebra*	4
OR		
MATH 270	Differential Equations*	4
OR		
MATH 260	Linear Algebra*	4
AND		
MATH 270	Differential Equations*	4
PHY 212	Physics for Scientists & Engineers - II*	4

**Chemical Engineering**

ENGR 100	Introduction to Engineering (same as ENGT 100)	2
ENGR 212	Computational Methods in MATLAB/Octave*	4
ENGR 217	Electric Circuit Analysis*	3
ENGR 217L	Electric Circuit Analysis Lab*	1
ENGR 235	Engineering Mechanics: Statics*	3
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
CHEM 230	Organic Chemistry I*	5
CHEM 231	Organic Chemistry II*	5
MATH 250	Calculus III*	4
MATH 251	Linear Algebra and Differential Equations*	5
OR		
MATH 260	Linear Algebra*	4
OR		
MATH 270	Differential Equations*	4
OR		
MATH 260	Linear Algebra*	4
AND		
MATH 270	Differential Equations*	4
PHY 212	Physics for Scientists & Engineers - II*	4

Total: 36-38

**ENGINEERING DESIGN TECHNOLOGY**  
**Associate of Science Degree**

**Description**

This major curriculum leads to the **Associate of Science Degree in Engineering Design Technology** for advanced Tech Prep applications, employment in design, engineering and manufacturing-related industries, public works, utilities and CADD/



Drafting-related industries. The program includes applications such as 3D parametric modeling, CADD (Computer-Assisted Design and Drafting), manufacturing processes, 3D Printing, and traditional drafting methods and standards.

To acquire the Associate of Science Degree in Engineering Design Technology, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Required Courses:** **Units: 30**

ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4
ENGT 250	Introduction to Parametric Modeling 3D Applications for Mechanical Design	4
ENGT 122	Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	3
ENGT 123	Intermediate Engineering Design: Descriptive Geometry	2
ENGT 200	Intermediate CAD Modeling for Design & Production*	4
ENGT 131	Advanced Engineering Design: Manufacturing Applications of Technical Drawing*	4
ENGT 231	Product Design and Presentation*	4

**Choose a minimum of 4 units from the following courses:** **Units: 4**

ENGT 270	Advanced 3D Parametric Modeling and Prototype Applications *	4
ENGT 280	Advanced MicroStation for CADD & BIM Applications (Same as ARCH 280)*	4
ENGT 290	Cooperative Work Experience / Internship for Drafting Related Fields	4

\*Prerequisite

Total: 34

## ENGINEERING DESIGN TECHNOLOGY

### Certificate of Achievement

#### Description

This Certificate is designed for technical, mechanical and manufacturing careers and leads to employment in CADD application, engineering-related, mechanical and manufacturing-related industries, public works, utilities and CADD/Drafting-related industries.

To acquire the **Certificate of Achievement in Engineering Design Technology**, it is necessary to complete the following courses:

**Required Courses:** **Units: 30**

ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4
ENGT 250	Introduction to Parametric Modeling 3D Applications for Mechanical Design	4
ENGT 122	Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	3
ENGT 123	Intermediate Engineering Design: Descriptive Geometry	2
ENGT 200	Intermediate CAD Modeling for Design & Production*	4
ENGT 131	Advanced Engineering Design: Manufacturing Applications of Technical Drawing*	4
ENGT 231	Product Design and Presentation*	4

**Choose 4 units from the following courses:** **Units: 4**

ENGT 270	Advanced 3D Parametric Modeling and Prototype Applications *	4
ENGT 280	Advanced MicroStation for CADD & BIM Applications (Same as ARCH 280)*	4
ENGT 290	Cooperative Work Experience / Internship for Drafting Related Fields*	4

\*Prerequisite

Total: 34

## ENGINEERING DESIGN TECHNOLOGY: CAD SPECIALIST

### Certificate of Achievement

#### Description

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This Certificate of Achievement provides a focused course of study for students in preparation for careers in the field of computer-aided design (CAD). Emphasis is placed on the use of CAD software to complete projects in engineering, manufacturing, or related fields. Coursework involves the preparation of CAD projects and 3D models accomplished within a design environment as experienced in higher levels of engineering education, and as is common in workplace conditions.

To acquire the **Certificate of Achievement in Engineering Design Technology: CAD Specialist**, it is necessary to complete the following courses:

<b>Required Courses:</b>		<b>Units: 16</b>
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4
ENGT 250	Introduction to Parametric Modeling 3D Applications for Mechanical Design	4
ENGT 200	Intermediate CAD Modeling for Design & Production*	4
ENGT 270	Advanced 3D Parametric Modeling and Prototype Applications *	4
OR		
ENGT 280	Advanced MicroStation for CADD & BIM Applications (Same as ARCH 280)*	4

\*Prerequisite

Total: 16

## ENGINEERING DESIGN TECHNOLOGY: DESIGN AND PRODUCTION

### Certificate of Achievement

#### Description

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This Certificate of Achievement is designed for technical, mechanical, and manufacturing careers and CADD/Drafting-related industries. The certificate is intended to represent skills and understanding of production and design processes utilizing CAD software and prototyping.

To acquire the **Certificate of Achievement in Engineering Design Technology: Design and Production**, it is necessary to complete the following courses:

<b>Required Courses:</b>		<b>Units: 18</b>
ENGT 123	Intermediate Engineering Design: Descriptive Geometry	2
ENGT 200	Intermediate CAD Modeling for Design & Production*	4
ENGT 131	Advanced Engineering Design: Manufacturing Applications of Technical Drawing*	4
ENGT 231	Product Design and Presentation*	4
ENGT 270	Advanced 3D Parametric Modeling and Prototype Applications *	4

\*Prerequisite

Total: 18

## ENGINEERING DESIGN TECHNOLOGY: STANDARDS FOR DESIGN

### Certificate of Achievement

#### Description

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This Certificate of Achievement provides a focused course of study for students in preparation for careers in the field of engineering, manufacturing, drafting, and design technology. Emphasis is placed on the use of industry standards to complete projects in engineering, manufacturing, or related fields. Coursework involves the preparation of industry standards outlined by industry organizations such as the International Organization for Standardization (ISO), American National Standards Institution (ANSI), and American Society of Mechanical Engineers (ASME) to accomplish projects within a design environment as experienced in higher levels of engineering education, and as is common in workplace conditions.

To acquire the **Certificate of Achievement in Engineering Design Technology: Standards for Design**, it is necessary to complete the following courses:

#### Required Courses

Units: 16

ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Introduction to Visualization, Sketching, & Rendering	2
ENGT 122	Intermediate Engineering Design: Geometric Dimensioning & Tolerancing	3
ENGT 250	Introduction to Parametric Modeling 3D Applications for Mechanical Design	4
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4

Total: 16



Associate Degree  
for Transfer  
*A Degree with a Guarantee.<sup>SM</sup>*

### ENGLISH

### Associate in Arts for Transfer

#### Description

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The Associate in Arts in English for Transfer (AA-T) is designed to provide foundational studies in English (or similar majors) for students interested in working toward a bachelor's degree in English (or similar majors) from a four-year college or university. The degree program is also relevant for students interested in developing critical thinking, interpretive reading, analytical and research writing, and presentation skills to apply to broader educational and professional goals.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T in English (and similar majors):**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.

4. Certified completion of the California State University General Education Breadth (CSU GE) pattern or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the English (or similar) major at the CSU where they seek to transfer.

<b>Required Courses</b>		<b>Units: 6.5</b>
ENGL 201	Advanced Composition and Critical Thinking*	3.5
OR		
ENGL 201H	Advanced Composition and Critical Thinking Honors*	3.5
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3

\*Prerequisite

**List A: Chooses two courses from the following list (6 units)** **Units: 18**

LIT 112A	American Literature through 1865*	3
OR		
LIT 112AH	American Literature through 1865 Honors*	3
LIT 112B	American Literature after 1865 *	3
OR		
LIT 112BH	American Literature after 1865 Honors*	3
LIT 144A	World Literature: Antiquity through the 16th Century*	3
OR		
LIT 144AH	World Literature: Antiquity through the 16th Century Honors*	3
LIT 144B	World Literature: 16th Century to the Present*	3
OR		
LIT 144BH	World Literature: 16th Century to the Present Honors*	3
LIT 146A	British Literature through 1785*	3
OR		
LIT 146AH	British Literature through 1785 Honors*	3
LIT 146B	British Literature after 1785*	3
OR		
LIT 146BH	British Literature after 1785 Honors*	3

**List B: Choose one course from List A (above) not used or choose one course from List B (below) (3 units)** **Units: 12**

LIT 141	Introduction to Poetry*	3
OR		
LIT 141H	Introduction to Poetry Honors*	3
LIT 117	Mexican Literature in Translation*	3
OR		
LIT 117H	Mexican Literature in Translation Honors*	3
ENGL 127	Language Structure and Language Use: Introduction to Linguistics*	3
OR		
ENGL 127H	Language Structure and Language Use: Introduction to Linguistics Honors*	3
ENGL 131	Creative Writing*	3

**List C: Choose any course from List A or B not used above or any of the following courses (3 units)** **Units: 33**

ENGL 125	Grammar and Usage*	3
ENGL 126	Languages of the World	3
LIT 114	Children's and Adolescent Literature*	3
OR		
LIT 114H	Children's and Adolescent Literature Honors*	3
LIT 130	Women and Literature*	3
OR		
LIT 130H	Women and Literature Honors*	3

LIT 140	Introduction to the Novel*	3
OR		
LIT 140H	Introduction to the Novel Honors*	3
LIT 142	Introduction to Shakespeare*	3
OR		
LIT 142H	Introduction to Shakespeare Honors*	3
LIT 145	Introduction to the Short Story*	3
OR		
LIT 145H	Introduction to the Short Story Honors*	3
LIT 147	Cinema as Literature*	3
OR		
LIT 147H	Cinema as Literature Honors*	3
LIT 148	Introduction to Dramatic Literature*	3
OR		
LIT 148H	Introduction to Dramatic Literature Honors*	3
LIT 149	Introduction to Chicana/o/x Literature*	3
OR		
LIT 149H	Introduction to Chicana/o/x Literature Honors*	3
LIT 299	Directed Study: Literature	3

**CSU GE or IGETC Pattern (units will vary)**

**Transferable Electives (as needed to reach 60 transferable units)**

**DEGREE TOTAL 60 units**

Total: 69.5

## ENGLISH AND LITERATURE

### Associate of Arts Degree

#### Description

This degree focuses on language and literature as forms of cultural expression with specific historical influences. Some of the courses focus on reading and writing about literary texts; others focus on genre studies and the structure of language. A third area of coursework emphasizes significant writers, literary works, and cultural movements that are most important to a particular time period. By completing specific general education courses, this program fulfills many of the requirements and foundation courses for transfer to baccalaureate English and literature majors but does not fulfill all transfer requirements for specific baccalaureate degree programs. (See a counselor for major preparation from specific four-year institutions).

To acquire the Associate of Arts in English and Literature, students must complete the required major courses below with a grade of "C" or better along with one of the following: Río Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses

**Units: 12.5**

ENGL 201	Advanced Composition and Critical Thinking*	3.5
OR		
ENGL 201H	Advanced Composition and Critical Thinking Honors*	3.5
LIT 102	Approaches to Literature*	3
OR		
LIT 102H	Approaches to Literature Honors*	3
LIT 146A	British Literature through 1785*	3
OR		
LIT 146AH	British Literature through 1785 Honors*	3
LIT 146B	British Literature after 1785*	3
OR		
LIT 146BH	British Literature after 1785 Honors*	3

**Choose three courses from the list below:**

**Units: 9**

ENGL 125	Grammar and Usage*	3
ENGL 126	Languages of the World	3
ENGL 127	Language Structure and Language Use: Introduction to Linguistics*	3
OR		
ENGL 127H	Language Structure and Language Use: Introduction to Linguistics Honors*	3
ENGL 131	Creative Writing*	3
LIT 112A	American Literature through 1865*	3
OR		
LIT 112AH	American Literature through 1865 Honors*	3
LIT 112B	American Literature after 1865*	3
OR		
LIT 112BH	American Literature after 1865 Honors*	3
LIT 114	Children's and Adolescent Literature*	3
OR		
LIT 114H	Children's and Adolescent Literature Honors*	3
LIT 117	Mexican Literature in Translation*	3
OR		
LIT 117H	Mexican Literature in Translation Honors*	3
LIT 130	Women and Literature*	3
OR		
LIT 130H	Women and Literature Honors*	3
LIT 140	Introduction to the Novel*	3
OR		
LIT 140H	Introduction to the Novel Honors*	3
LIT 141	Introduction to Poetry*	3
OR		
LIT 141H	Introduction to Poetry Honors*	3
LIT 142	Introduction to Shakespeare*	3
OR		
LIT 142H	Introduction to Shakespeare Honors*	3
LIT 144A	World Literature: Antiquity through the 16th Century*	3
OR		
LIT 144AH	World Literature: Antiquity through the 16th Century Honors*	3
LIT 144B	World Literature: 16th Century to the Present*	3
OR		
LIT 144BH	World Literature: 16th Century to the Present Honors*	3
LIT 145	Introduction to the Short Story*	3
OR		
LIT 145H	Introduction to the Short Story Honors*	3
LIT 147	Cinema as Literature*	3
OR		
LIT 147H	Cinema as Literature Honors*	3
LIT 148	Introduction to Dramatic Literature*	3
OR		
LIT 148H	Introduction to Dramatic Literature Honors*	3
LIT 149	Introduction to Chicana/o/x Literature*	3
OR		
LIT 149H	Introduction to Chicana/o/x Literature Honors*	3

\*Prerequisite

Total: 21.5

## ENVIRONMENTAL SCIENCE

### Associate of Science Degree

#### Description

The **Associate of Science Degree (AS) in Environmental Science** prepares students intending to transfer to a four-year institution in the environmental sciences. This degree provides for completion of general, lower-division coursework associated

with the requirements for a bachelor degree in environmental science, environmental studies, environmental and occupational health, etc. The degree is specifically designed for students intending to transfer to a CSU or UC campus, and to gain entry-level employment in the environmental science field. Students completing the degree will take specific courses in chemistry, biology, physics, and mathematics in addition to general education preparation such as the CSU General Education Plan, or IGETC. (See admission requirements of individual colleges and universities and transfer requirements for specific majors).

To acquire the **Associate of Science Degree in Environmental Science**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 28-31</b>
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1
BIOL 200	Principles of Biology 1 (Molecular and Cellular Biology)*	5
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
ET 290	Cooperative Work Experience/Internship for Environmental Technology related fields	1-4
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
PHY 150	General Physics I*	4

\*Prerequisite

Total: 28-31



## **ENVIRONMENTAL SCIENCE**

### **Associate in Science for Transfer**

#### **Description**

The **Associate in Science in Environmental Science for Transfer (AS-T)** degree is intended to meet the lower-division requirements for Environmental Science majors (or similar majors) at a CSU campus that offers an Environmental Science baccalaureate degree.

This degree provides for the completion of lower division major preparation associated with the requirements for a bachelor's degree in environmental science, environmental management protection, applied ecology, environmental data analysis, and other fields. It provides a broad, comprehensive overview of the main areas of environmental science. The ability to think critically and use appropriate tools to solve environmental biological questions will be emphasized.

In addition to the courses listed below, the following additional requirements must be met to complete the AS-T in Environmental Science:

1. Completion of a minimum of 60 CSU transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU transferable coursework (some majors may require a higher GPA. Students should consult with a counselor for more information).
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the Intersegmental General Education Transfer Curriculum (IGETC) for STEM pattern or the California State University general Education-Breadth (CSU GE) for STEM pattern. (The use of the IGETC for STEM pattern allows for the completion of the degree within 60 units.)

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted for the Environmental Science major at the CSU to which they seek to transfer.



<b>Required Courses</b>		<b>Units: 15</b>
BIOL 200	Principles of Biology 1 (Molecular and Cellular Biology)*	5
BIOL 201	Principles of Biology 2 (Diversity and Ecology)*	5
CHEM 130	General Chemistry I*	5

**List A: Select courses from list below for a minimum total of 15 units** **Units: 15**

BIOL 120	Environmental Biology	3
CHEM 140	General Chemistry II*	5
GEO 150	Physical Geology	3
AND		
GEO 151	Physical Geology Laboratory*	1
OR		
GEOG 101	Introduction to Physical Geography	3
AND		
GEOG 101L	Introduction to Physical Geography Laboratory*	1
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
OR		
MATH 170	Elements of Calculus*	4

**List B: Select one Economics course and one Physics sequence from courses listed below:** **Units: 11**

ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
PHY 150	General Physics I*	4
AND		
PHY 160	General Physics II*	4
OR		
PHY 211	Physics for Scientists & Engineers - I*	4
AND		
PHY 213	Physics for Scientists & Engineers - III*	4

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 41

## ENVIRONMENTAL TECHNOLOGY

### Associate of Science Degree

#### Description

Environmental Technology refers to the skills and knowledge that allows a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

The Environmental Technology Associate of Science Degree Program is a two-year program designed to prepare students to either enter the work force at the technician level or transfer into a bachelors' degree program.

To acquire the **Associate of Science Degree in Environmental Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 18-19</b>
ET 130	Health Effects of Environmental Hazardous Materials	3
ET 230	Safety and Emergency Response	4
ET 260	Environmental Sampling and Analysis	4
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4
OR		
CIT 101	Introduction to Computer Information Technology	3

**Plus units from any of the following areas of specialization and/or miscellaneous electives to equal a minimum of 27 units in the major.** **Units: 9**

#### **Waste Management**

ET 110	Hazardous Waste Generation/Reduction/Treatment	3
ET 150	Hazardous Waste Management Applications	4
ET 200	Hazardous Materials Management Applications	4
ET 240	Solid Waste Management Applications	4

#### **Land Use Planning & Environmental Restoration**

ET 280	Green Building Design Principles (Same as AET 280)	3
OR		
AET 280	Green Building Design Principles (Same as ET 280)	3
GIS 230	Geographic Information Systems (GIS) in Environmental Technology*	3

#### **Water Resources**

ET 270	Wastewater Treatment Plant Operations I	3
ET 271	Wastewater Treatment Plant Operations II*	3
ET 272	Advanced Wastewater Treatment*	3
ET 273	Stormwater Management, Treatment & Controls	3
ET 274	Industrial Waste Water Treatment	3
ET 275	Water Treatment	3
ET 276	Water Distribution	3

#### **Alternative & Efficient Energy Systems**

AET 120	Introduction to Alternative Energy Technology (Same as ET 120)	3
OR		
ET 120	Introduction to Alternative Energy Technology (Same as AET 120)	3
AET 121	Photovoltaic Systems Design and Installation (Same as ET 121)	3
OR		
ET 121	Photovoltaic Systems Design and Installation (Same as AET 121)	3
AET 122	Advanced Photovoltaic Systems Design and Installation (Same as ET 122)*	3
OR		
ET 122	Advanced Photovoltaic Systems Design and Installation (Same as AET 122)*	3
AET 123	Wind Energy Systems Design and Installation (Same as ET 123)	3
OR		
ET 123	Wind Energy Systems Design and Installation (Same as AET 123)	3
AET 124	Advanced Wind Energy Systems Design and Installation (Same as ET 124)*	3
OR		
ET 124	Advanced Wind Energy Systems Design and Installation (Same as AET 124)*	3
AET 181	Home Energy Management and Auditing (Same as ET 181)	3
OR		
ET 181	Home Energy Management and Auditing (Same as AET 181)	3
AET 182	Industrial Energy Management and Auditing (Same as ET 182)	3
OR		

ET 182	Industrial Energy Management and Auditing (Same as AET 182)	3
AET 280	Green Building Design Principles (Same as ET 280)	3
OR		
ET 280	Green Building Design Principles (Same as AET 280)	3
AUTO 147	Introduction to Hybrid and Electric Vehicle Technology*	3

**Environmental Health & Safety**

ET 250	Fundamentals of Safety and Health I	3
ET 251	Fundamentals of Safety and Health II	3

**Environmental Technology - Miscellaneous Electives**

ET 290	Cooperative Work Experience/Internship for Environmental Technology related fields	1-4
ET 299	Directed Study: Environmental Technology	1-3
FTEC 107	Hazardous Materials I	3
FTEC 108	Hazardous Materials II*	3

Total: 27-28

## ENVIRONMENTAL TECHNOLOGY Certificate of Achievement

### Description

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Environmental Technology refers to the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment. The ET Certificate is designed to either prepare students to enter the field or upgrade working individuals with technician-level skills.

To acquire the **Certificate of Achievement in Environmental Technology**, it is necessary to complete the following courses:

Required Courses	Units: 30.5	
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1
CHEM 110	Chemistry for Allied Health Majors*	5
ENGL 101	College Composition and Research*	3.5
ET 110	Hazardous Waste Generation/Reduction/Treatment	3
ET 130	Health Effects of Environmental Hazardous Materials	3
ET 150	Hazardous Waste Management Applications	4
ET 200	Hazardous Materials Management Applications	4
ET 230	Safety and Emergency Response	4

\*Prerequisite

Total: 30.5

## ENVIRONMENTAL TECHNOLOGY/FIELD TECHNICIAN Certificate of Achievement

### Description

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The Environmental Technology Field Technician Certificate is designed to prepare students to enter the environmental field or to upgrade working individuals with field technician skills.

Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Field Technician**, it is necessary to complete the following courses:

**Required Courses****Units: 13-14**

ET 230	Safety and Emergency Response	4
ET 260	Environmental Sampling and Analysis	4
ET 290	Cooperative Work Experience/Internship for Environmental Technology related fields	1-2
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1

\*Prerequisite

Total: 13-14

## ENVIRONMENTAL TECHNOLOGY/HEALTH AND SAFETY Certificate of Achievement

**Description**

The Environmental Technology Health and Safety Certificate is designed to prepare students to enter the environmental health and safety field or upgrade working individuals with environmental health and safety field technician skills.

Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Health and Safety**, it is necessary to complete the following courses:

**Required Courses****Units: 22-23**

ET 130	Health Effects of Environmental Hazardous Materials	3
ET 230	Safety and Emergency Response	4
ET 250	Fundamentals of Safety and Health I	3
ET 251	Fundamentals of Safety and Health II	3
ET 260	Environmental Sampling and Analysis	4
ET 290	Cooperative Work Experience/Internship for Environmental Technology related fields	1-2
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1

\*Prerequisite

Total: 22-23

## ENVIRONMENTAL TECHNOLOGY/WASTE MANAGEMENT Certificate of Achievement

**Description**

The Environmental Technology Waste Management Certificate is designed to prepare students to enter the waste management field or upgrade working individuals with waste management field technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with the governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Waste Management**, it is necessary to complete the following courses:

**Required Courses****Units: 24-25**

ET 110	Hazardous Waste Generation/Reduction/Treatment	3
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ET 150	Hazardous Waste Management Applications	4
ET 200	Hazardous Materials Management Applications	4
OR		
ET 240	Solid Waste Management Applications	4
ET 230	Safety and Emergency Response	4
ET 260	Environmental Sampling and Analysis	4
ET 290	Cooperative Work Experience/Internship for Environmental Technology related fields	1-2
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1

\*Prerequisite

Total: 24-25

## ENVIRONMENTAL TECHNOLOGY/WATER MANAGEMENT Certificate of Achievement

### Description

The Environmental Technology Water Management Certificate is designed to prepare students to enter the water management field or to upgrade working individuals with water management field technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement Environmental Technology/Water Management**, it is necessary to complete the following courses:

#### Required Courses Units: 13-14

ET 230	Safety and Emergency Response	4
ET 260	Environmental Sampling and Analysis	4
ET 290	Cooperative Work Experience/Internship for Environmental Technology related fields	1-2
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1

#### Choose four courses from the following list: Units: 12

ET 270	Wastewater Treatment Plant Operations I	3
ET 271	Wastewater Treatment Plant Operations II*	3
ET 272	Advanced Wastewater Treatment*	3
ET 273	Stormwater Management, Treatment & Controls	3
ET 274	Industrial Waste Water Treatment	3
ET 275	Water Treatment	3
ET 276	Water Distribution	3

\*Prerequisite

Total: 25-26



## FILM, TELEVISION, AND ELECTRONIC MEDIA

### Associate in Science for Transfer

#### Description

The **Associate in Science in Film, Television, and Electronic Media for Transfer (AS-T) Degree** is designed for students interested in communicating stories and ideas through moving images and recorded sound. Students in this program will gain an aesthetic appreciation for social and cultural phenomena and a critical understanding of film, television, and visual mediums, as well as practical skills in writing, directing, filming, editing, and producing work in these and other electronic media. It is intended to meet the lower division requirements for Radio, Television, Film, Video, and Electronic Arts majors (or similar majors) at a CSU campus that offers a Film, Television, and Electronic Media baccalaureate degree.

In addition to the courses listed below, the following additional requirements must be met for completion of the **Associate in Science in Film, Television, and Electronic Media for Transfer**:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted for the Film, Television, and Electronic Media major at the CSU to which they seek to transfer.

#### Required Courses (choose two courses from the following list): Units: 6

ART 115	The Art of Film	3
JOUR 115	Writing for TV and Film	3
MSCM 128	Mass Media in Modern Society	3

#### LIST A: Take one course from each area listed below:

#### Area 1: Audio (choose one course from below): Units: 3-4

MUST 101	Introduction to Music Technology	3
RDIO 136	Radio Production	4

#### Area 2: Video or Film Production Units: 3

TV 135	Digital Filmmaking I: Introduction	3
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#### List B: Choose one course from the following (or any course not already used above): Units: 3

ART 106	Survey of Western Art: Renaissance to Contemporary	3
OR		
ART 106H	Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 110	Understanding Visual Art	3
JOUR 120	Communications Reporting and Writing	3
JOUR 147	Broadcast News	3
PHTO 130	Beginning Photography	3
RDIO 104	Radio Broadcasting	3
THTR 160	Introductory Playwriting Screenwriting	3

\*Prerequisite

**List C: Choose one course from the following (or any course not already used above):**

**Units: 3**

ENGL 131	Creative Writing*	3
LIT 147	Cinema as Literature*	3
OR		
LIT 147H	Cinema as Literature Honors*	3
MSCM 103	Survey of Motion Picture, Radio, and Television	3
MSCM 134	Documentary Film	3
MUS 135	Music in Film	3
THTR 112	Acting for the Camera	3
THTR 150	Stagecraft I for Theatre, TV, and Film	3
THTR 153	Lighting Design and Production for Theatre, TV, and Film	3
THTR 174	Costume Design and Production for Theatre, TV, and Film	3
THTR 176	Makeup Design and Production for Theatre, TV, and Film	3
TV 136	Digital Filmmaking II: Intermediate*	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

Total: 18-19

## FINANCE

### Certificate of Achievement

#### Description

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This Certificate of Achievement is for students who want to complete a course of study in financial services to gain the skills and knowledge needed to prepare them for entry-level finance positions in small and medium-sized businesses. It will provide students with basic accounting skills combined with training in financial planning and will serve as an excellent foundation for those choosing to take the National Association of Securities Dealers series 6 or 7 examinations. It consists of 17 units and can be completed in two semesters if a student is attending full time.

To acquire the **Certificate of Achievement in Finance**, it is necessary to complete the following courses:

#### Required Courses

**Units: 17**

FIN 101	Introduction to Financial Planning*	3
FIN 102	Fundamentals of Financial Management and Investing*	3
ACCT 105	Income Tax Accounting	4
ACCT 106	Computerized Accounting	3
ACCT 110	Excel for Business and Accounting*	1
BUSL 110	Legal Environment of Business	3
OR		
MGMT 108	Business Writing	3

\*Prerequisite

Total: 17



# FIRE ACADEMY

## DIVISION OF PUBLIC SAFETY

### *Admission Procedures*

The Fire Academy meets the State Fire College and the State Board of Fire Services' requirements for certification as Firefighter I and certification as an Emergency Medical Technician. Enrollment in the Fire Academy is open to all students. To ensure that the enrollment policy is in compliance with Section 84500 of the Education Code, the following procedure is hereby established:

1. In-service students will receive priority over pre-service students for up to 80% of the total class enrollment. Inservice students are defined as follows and will be given priority in the order listed:
  - a. fully paid members of fully paid governmental or industrial fire protection or fire prevention agencies,
  - b. sponsored Reserve/Auxiliary members of Fire Departments,
  - c. volunteers of a fire protection or fire prevention agency who have been a member of such organization for a minimum of one year and have completed a minimum of fifteen (15) units of Fire Technology in an accredited college or institution with a grade in each course of "C" or better. Explorer Scouts DO NOT qualify for in-service status.

It must be the intent of any person filing an application as an in-service member to return to the sponsoring organization upon completion of the academy training. It must be the intent of the department sponsoring such member to utilize the skills and knowledge acquired by the member in the day to-day operation of the department.

2. Pre-service students will be given priority over in-service students for up to 20% of the total class enrollment. A pre-service person is one who does not qualify as an in-service member.
3. Priority for enrollment in the Academy will be based on the number of units completed with a grade of "C" or above in Fire Technology courses in accredited colleges or institutions. However, students who withdrew from a previous Río Hondo firefighter academy due to a verified injury or extended sickness will be given priority over new applicants. Fire Technology courses are those having an accredited fire technology number.
4. Students with the same number of credit units in Fire Technology courses will be prioritized based on the grade point average of the Fire Technology courses.
5. In the event two or more students have an equal grade point average and have completed the same number of Fire Technology units, priority will be based on the total number of units completed in accredited colleges or institutions.
6. Students with the same number of completed Fire Technology units, the same grade point average in the Fire Technology units and the same number of total units completed in accredited colleges or institutions will be prioritized based on the grade point average of all college units completed.
7. It will be the responsibility of the student to have on file with the Regional Training Center Office the application and official transcripts verifying completed coursework results on or before the closing date for applications.
8. Registration for the Fire Academy based on priorities established will occur at least five working days prior to start of the Academy to allow time to obtain required materials.

## FIRE ACADEMY/BASIC FIRE ACADEMY Certificate of Achievement

### Description

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The Basic Fire Academy Certificate of Achievement is designed to prepare students to become entry-level firefighters in local and state fire agencies in California. This fundamental intensive training course includes all learning domains from the California Fire Marshal's office, which includes instruction in structural, commercial and industrial firefighting. This certificate also meets the certification requirements of the State Fire Marshal for employment opportunities as a firefighter in California. Students who successfully complete this certificate program are eligible for hire in a public (municipal) and private fire department.

To acquire the **Certificate of Achievement in Basic Fire Academy**, it is necessary to complete the following courses:

**Required Courses**

**Units: 18-22**

FAC 118	Firefighter I, Basic Fire Academy*	18
OR		
FAC 120	Firefighter I, Basic Fire Academy with EMT *	22

\*Prerequisite

Total: 18-22

## FIRE TECHNOLOGY

### Associate of Science Degree

#### Description

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This curriculum was developed jointly by the Curriculum Committee of the California Fire Chiefs' Association and the College Advisory Committee and is intended for firefighters, fire officers, and interested students.

To acquire the **Associate of Science Degree in Fire Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses Units: 18

FTEC 101	Fire Protection Organization	3
FTEC 102	Principles of Fire & Emergency Services Safety & Survival	3
FTEC 103	Fire Behavior and Combustion	3
FTEC 104	Fire Prevention Technology	3
FTEC 105	Building Construction for Fire Protection	3
FTEC 106	Fire Protection Equipment and Systems	3

#### Choose 6 units from the following: Units: 6-18

EMT 093	Emergency Medical Technician*	9
ET 230	Safety and Emergency Response	4
FAC 118	Firefighter I, Basic Fire Academy*	18
FTEC 044	Physical Fitness and Ability for the Firefighter *	3
FTEC 045	Firefighter Entrance Examination Techniques	3
FTEC 107	Hazardous Materials I	3
FTEC 108	Hazardous Materials II*	3
FTEC 109	Fire Fighting Tactics and Strategy	3
FTEC 110	Rescue Practices	3
FTEC 111	Fire Hydraulics	3
FTEC 112	Fire Apparatus and Equipment	3
FTEC 114	Fire Investigation	3
FTEC 117	Fire Service Management, Safety, and Wellness	3
EMT 100	Emergency Medical Responder	3
WFT 101	Wildland Fire Behavior	3

\*Prerequisite

Total: 24-36

## FIRE TECHNOLOGY

### Certificate of Achievement

#### Description

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To acquire the **Certificate of Achievement in Fire Technology**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 18</b>
FTEC 101	Fire Protection Organization	3
FTEC 102	Principles of Fire & Emergency Services Safety & Survival	3
FTEC 103	Fire Behavior and Combustion	3
FTEC 104	Fire Prevention Technology	3
FTEC 105	Building Construction for Fire Protection	3
FTEC 106	Fire Protection Equipment and Systems	3

**Choose 6 units from the following:** **Units: 6-18**

EMT 093	Emergency Medical Technician*	9
ET 230	Safety and Emergency Response	4
FAC 118	Firefighter I, Basic Fire Academy*	18
FTEC 044	Physical Fitness and Ability for the Firefighter *	3
FTEC 045	Firefighter Entrance Examination Techniques	3
FTEC 107	Hazardous Materials I	3
FTEC 108	Hazardous Materials II*	3
FTEC 109	Fire Fighting Tactics and Strategy	3
FTEC 110	Rescue Practices	3
FTEC 111	Fire Hydraulics	3
FTEC 112	Fire Apparatus and Equipment	3
FTEC 114	Fire Investigation	3
FTEC 117	Fire Service Management, Safety, and Wellness	3
EMT 100	Emergency Medical Responder	3
WFT 101	Wildland Fire Behavior	3

\*Prerequisite

Total: 24-36

## FRENCH

### Certificate of Achievement

#### Description

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The **Certificate of Achievement in French** is designed to provide students with a strong foundation in the essentials of the French language: reading, listening, speaking, and writing skills. This certificate is intended for students pursuing other degrees or careers not necessarily related to the French language but who still want to learn the language. With this certificate, students can petition their employer for any benefits that may be available for those who have skills in French.

Students who successfully complete the certificate will be able to communicate competently in French at a basic conversational level. While students will not be able to act as an interpreter, they will be able to communicate directly with clients, customers, coworkers, or community members who are French speakers and whose English proficiency may be limited.

To acquire the **Certificate of Achievement in French**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 18</b>
FR 101	French I	4.5
FR 102	French II*	4.5
FR 201	French III*	4.5

\*Prerequisite

Total: 18

## GENERAL EDUCATION/CSU GE Certificate of Achievement

### Description

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The California State University General Education Breadth (CSU-GE Breadth) pattern is a set of courses designed to fulfill all lower-division general education requirements for California State University campuses, as well as lead to a certificate of achievement at Rio Hondo College.

To acquire the **Certificate of Achievement in CSU-GE Breadth**, courses must have been approved for the CSU-GE Breadth area during the term in which the course was taken (please verify approval dates on [www.assist.org](http://www.assist.org)). A grade of "C-" or better is required for courses taken in areas A1, A2, A3, and B4.

## GENERAL EDUCATION/IGETC Certificate of Achievement

### Description

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The Intersegmental General Education Transfer Curriculum (IGETC) is a set of courses designed to fulfill all lower-division general education requirements for California State University and University of California campuses, as well as lead to a certificate of achievement at Rio Hondo College.

To acquire the **Certificate of Achievement in IGETC**, it is necessary to complete the Intersegmental General Education Transfer Curriculum requirements listed in this catalog with a grade of "C" or better. Courses must have been approved for the IGETC area during the term in which the course was taken (please verify approval dates on [www.assist.org](http://www.assist.org)).

## GENERAL STUDIES WITH AN EMPHASIS IN ARTS AND HUMAN EXPRESSION Associate of Arts Degree

### Description

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These courses emphasize the study of the cultural, literary, and artistic expressions of human beings. Students evaluate and interpret how people in different cultures throughout history have responded to themselves and the world around them via artistic and cultural creation. Students also learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. This emphasis includes lower division coursework that prepares students for potential careers in fine arts, foreign languages, literature, and philosophy.

To acquire the **Associate of Arts in General Studies with an Emphasis in Arts and Human Expression**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Choose at least one course from each category (A and B) and then complete additional courses in categories A and/or B to total 18 units of coursework from the following list:**

Units: 18

#### A) ARTS

ARCH 103	History of Architecture: Renaissance to Present	3
ART 101	Introduction to Studio Arts	3
ART 104	Art of the Ancient Americas	3
ART 105	Survey of Western Art: Prehistory through the Middle Ages	3
OR		
ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors*	3
ART 106	Survey of Western Art: Renaissance to Contemporary	3
OR		
ART 106H	Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 107	The Art of Asia	3
ART 108	The Art of Mexico	3
ART 109	History of American Art	3
ART 110	Understanding Visual Art	3
ART 112	Visual Art in the Modern Era	3
ART 113	The History of Photography	3
ART 115	The Art of Film	3
ART 117	History of World Ceramics	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 130	Freehand Drawing I	3
ART 135	Beginning Painting	3
ART 140	Ceramics I	3
DANC 179	Dance History	3
OR		
DANC 179H	Dance History Honors*	3
DANC 199	Dance Appreciation	3
OR		
DANC 199H	Dance Appreciation Honors*	3
GDSN 110	History of Graphic Design	3
MUS 101	Fundamentals of Music	3
MUS 129	Music in Latin American Culture	3
MUS 130	Music History and Literature Before 1750	3
MUS 131	Music History and Literature after 1750	3
MUS 132	History of Rock and Roll	3
MUS 133	Music Appreciation	3
MUS 134	Chamber Singers	1
MUS 135	Music in Film	3
MUS 136	History of Jazz	3
MUST 151	History of Electronic Music	3
MUST 152	History of Hip Hop	3
PHTO 110	Introduction to Digital Photography	3
PHTO 130	Beginning Photography	3
THTR 101	Theatre Arts Appreciation	3
THTR 105	The History and Development of the Theatre	3
OR		
THTR 105H	The History and Development of the Theatre Honors*	3
THTR 110	Principles of Acting I	3
THTR 150	Stagecraft I for Theatre, TV, and Film	3

**B) HUMAN EXPRESSION**

ASL 101	American Sign Language I	4.5
ASL 124	Deaf Culture	3
ASL 201	American Sign Language III*	4.5
ASL 202	American Sign Language IV*	4.5
CHIN 101	Chinese I	4.5
CHIN 102	Chinese II*	4.5
CHST 101	Introduction to Chicana/o/x Studies	3
CHST 146	The Mexican American in the History of the United States	3
CHST 148	La Chicana: Mexican-American Women in Contemporary Society	3

OR		
CHST 148H	La Chicana: Mexican-American Women in Contemporary Society Honors*	3
CHST 150	Chicana/o/x Politics	3
EGSS 130	Introduction to LGBTQ+ Studies	3
ENGL 126	Languages of the World	3
ENGL 131	Creative Writing	3
FR 101	French I	4.5
FR 102	French II*	4.5
FR 201	French III*	4.5
FR 202	French IV*	4.5
HIST 101	History of World Civilization to the 17th Century	3
HIST 102	History of World Civilization 1500 to the Present	3
HIST 122	History of Mexico	3
HIST 131	History of the North American Indian	3
HIST 143	History of the United States to 1877	3
OR		
HIST 143H	History of the United States to 1877 Honors*	3
HIST 144	History of the United States Since 1865	3
OR		
HIST 144H	History of the United States Since 1865 Honors*	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3
OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors*	3
HIST 167	History of California	3
HIST 170	Women in American History	3
HUM 110	Survey of Humanities	3
HUM 111	Survey of Humanities	3
HUM 125	Introduction to Mexican Culture	3
OR		
HUM 125H	Introduction to Mexican Culture Honors*	3
HUM 130	Contemporary Mexican-American Culture	3
HUM 140	Introduction to Asian Cultures	3
HUM 145	Women in the Humanities	3
JAPN 101	Japanese I	4.5
JAPN 102	Japanese II*	4.5
LATN 101	Latin I	3
LATN 102	Latin II*	3
LIT 102	Approaches to Literature	3
OR		
LIT 102H	Approaches to Literature Honors*	3
LIT 112A	American Literature through 1865	3
OR		
LIT 112AH	American Literature through 1865 Honors*	3
LIT 112B	American Literature after 1865	3
OR		
LIT 112BH	American Literature after 1865 Honors*	3
LIT 114	Children's and Adolescent Literature	3
OR		
LIT 114H	Children's and Adolescent Literature Honors*	3
LIT 117	Mexican Literature in Translation	3
OR		
LIT 117H	Mexican Literature in Translation Honors*	3
LIT 130	Women and Literature	3
OR		
LIT 130H	Women and Literature Honors*	3
LIT 140	Introduction to the Novel	3
OR		
LIT 140H	Introduction to the Novel Honors*	3

LIT 141	Introduction to Poetry*	3
OR		
LIT 141H	Introduction to Poetry Honors*	3
LIT 142	Introduction to Shakespeare*	3
OR		
LIT 142H	Introduction to Shakespeare Honors*	3
LIT 144A	World Literature: Antiquity through the 16th Century*	3
OR		
LIT 144AH	World Literature: Antiquity through the 16th Century Honors*	3
LIT 144B	World Literature: 16th Century to the Present*	3
OR		
LIT 144BH	World Literature: 16th Century to the Present Honors*	3
LIT 145	Introduction to the Short Story*	3
OR		
LIT 145H	Introduction to the Short Story Honors*	3
LIT 146A	British Literature through 1785*	3
OR		
LIT 146AH	British Literature through 1785 Honors*	3
LIT 146B	British Literature after 1785*	3
OR		
LIT 146BH	British Literature after 1785 Honors*	3
LIT 147	Cinema as Literature*	3
OR		
LIT 147H	Cinema as Literature Honors*	3
LIT 148	Introduction to Dramatic Literature*	3
OR		
LIT 148H	Introduction to Dramatic Literature Honors*	3
LIT 149	Introduction to Chicana/o/x Literature*	3
OR		
LIT 149H	Introduction to Chicana/o/x Literature Honors*	3
PHIL 101	Introduction to Philosophy	3
OR		
PHIL 101H	Introduction to Philosophy Honors*	3
PHIL 120	Introduction to Ethics	3
PHIL 122	Philosophical Perspectives on Death & Dying	3
PHIL 124	History of Philosophy: Ancient	3
PHIL 126	History of Philosophy: Modern	3
PHIL 128	Introduction to Political Philosophy (same as POLS 128)	3
OR		
PHIL 128H	Introduction to Political Philosophy Honors (same as POLS 128H)*	3
PHIL 135	Philosophy of Social Justice	3
PHIL 140	Philosophy of Religion	3
POLS 128	Introduction to Political Philosophy (same as PHIL 128)	3
OR		
POLS 128H	Introduction to Political Philosophy Honors (same as PHIL 128H)*	3
POLS 150	Latinx Politics	3
SPAN 101	Spanish I	4.5
SPAN 102	Spanish II*	4.5
SPAN 101S	Spanish for Spanish Speakers I	4.5
SPAN 102S	Spanish for Spanish Speakers II*	4.5
SPAN 201	Spanish III*	4.5
OR		
SPAN 201H	Spanish III Honors*	4.5
SPAN 202	Spanish IV*	4.5
SPCH 130	Oral Interpretation	3
SPCH 132	Readers Theatre	3

\*Prerequisite

Total: 18



# GENERAL STUDIES WITH AN EMPHASIS IN SCIENCE AND MATHEMATICS

## Associate of Science Degree

### Description

These courses emphasize the natural sciences, which examine the physical universe, including its life forms and natural phenomena. As mathematics is the language of science, courses in mathematics help students develop quantitative reasoning skills beyond the level of intermediate algebra. Students are able to demonstrate an understanding of the methodologies of science as investigative tools. Students also examine the influence that the acquisition of scientific knowledge has on human experience. This emphasis includes lower-division coursework that prepares students for potential careers in science, engineering, math, and health-related fields.

To acquire the **Associate of Science in General Studies with an Emphasis in Science and Mathematics**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Choose at least one course from each category (A, B, and C) and then complete additional courses in any of the categories to total 18 units from the following list. Among these courses the student must complete at least one laboratory course.**

**Units: 18**

#### A) Life Sciences

ANTH 101	Introduction to Physical Anthropology	3
OR		
ANTH 101H	Introduction to Physical Anthropology Honors*	3
ANTH 101L	Physical Anthropology Lab*	1
BIOL 101	General Biology	4
BIOL 105	Human Biology	3
BIOL 105L	Human Biology Laboratory*	1
BIOL 111	Marine Biology	3
BIOL 111L	Marine Biology Laboratory*	1
BIOL 112	Outdoor Biology	4
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Laboratory*	1
BIOL 200	Principles of Biology 1 (Molecular and Cellular Biology)*	5
BIOL 201	Principles of Biology 2 (Diversity and Ecology)*	5
BIOL 206	Principles of Genetics*	3
BIOL 222	Microbiology*	5
BIOL 226	Human Physiology*	4
BIOT 100	Introduction to Biotechnology	4
PSY 210	Biological Psychology*	3
OR		
PSY 210H	Biological Psychology Honors*	3

#### B) Physical Sciences

ASTR 110	General Astronomy	3
OR		
ASTR 110H	General Astronomy Honors*	3
ASTR 112	Observational Astronomy*	1
ASTR 137	An Introduction to Cosmology: From the Big Bang to the Multiverse*	4
CHEM 110	Chemistry for Allied Health Majors*	5
CHEM 120	Introduction to Chemistry*	5
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
CHEM 230	Organic Chemistry I*	5
CHEM 231	Organic Chemistry II*	5

GEOG 101	Introduction to Physical Geography	3
GEOG 101L	Introduction to Physical Geography Laboratory*	1
GEOL 150	Physical Geology	3
GEOL 151	Physical Geology Laboratory*	1
GEOL 152	Historical Geology	3
GEOL 152L	Historical Geology Lab*	1
PHY 120	Physics for Everyday Use*	4
PHY 150	General Physics I*	4
PHY 160	General Physics II*	4
PHY 211	Physics for Scientists & Engineers - I*	4
PHY 212	Physics for Scientists & Engineers - II*	4
PHY 213	Physics for Scientists & Engineers - III*	4

### C) Mathematics

FIN 101	Introduction to Financial Planning*	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
MATH 140	Mathematics for Elementary Teachers*	4
MATH 150	Survey of Mathematics*	3
MATH 160	College Algebra*	4
MATH 170	Elements of Calculus*	4
MATH 175	Plane Trigonometry*	3
MATH 180	Pre-Calculus*	4
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
MATH 250	Calculus III*	4
MATH 251	Linear Algebra and Differential Equations*	5
MATH 260	Linear Algebra*	4
MATH 270	Differential Equations*	4
PSY 190	Statistics for the Behavioral Sciences*	4

\*Prerequisite

Total: 18

## GENERAL STUDIES WITH AN EMPHASIS IN SOCIAL BEHAVIOR AND SELF-DEVELOPMENT

### Associate of Arts Degree

#### Description

These courses provide students with the knowledge and understanding of social behavior and self-development. This area of emphasis is designed to prepare students to use their understanding of themselves and others to communicate and collaborate more effectively. The course combines knowledge of theory with attention to personal growth and purpose, as well as health and wellness. Students learn to become citizens who care for themselves and others, ready to work with people in their communities. Participation in group activities and collaborative projects is a central focus of this emphasis, allowing students to experience group interactions in a variety of contexts. This emphasis includes lower division coursework that prepares students for potential careers in people- and community-oriented professions including social, health, and recreational services.

To acquire the **Associate of Arts in General Studies with an Emphasis in Social Behavior and Self-Development**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Choose at least one course from each category below (A and B). Then complete additional courses from categories A and B to reach a total of 18 units from the following list:

Units: 18

**A) Theory and Knowledge**

AJ 101	Introduction to Administration of Justice	3
ANTH 101	Introduction to Physical Anthropology	3
OR		
ANTH 101H	Introduction to Physical Anthropology Honors*	3
ANTH 102	Introduction to Cultural Anthropology	3
OR		
ANTH 102H	Introduction to Cultural Anthropology Honors*	3
ANTH 103	Introduction to Archaeology	3
ANTH 104	Introduction to Language and Culture	3
ANTH 110	Gender and Sexuality	3
ANTH 115	Introduction to Medical Anthropology	3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural	3
CD 106	Child Growth and Development	3
CD 208	Child, Family, and Community	3
CHST 101	Introduction to Chicana/o/x Studies	3
CHST 146	The Mexican American in the History of the United States	3
CHST 148	La Chicana: Mexican-American Women in Contemporary Society	3
OR		
CHST 148H	La Chicana: Mexican-American Women in Contemporary Society Honors*	3
CHST 150	Chicana/o/x Politics	3
ECON 101	Principles of Macroeconomics*	3
OR		
ECON 101H	Principles of Macroeconomics Honors*	3
ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
ECON 135	International Political Economy	3
EGSS 110	Introduction to Ethnic Studies	3
EGSS 120	Introduction to Women's Studies	3
EGSS 130	Introduction to LGBTQ+ Studies	3
GEOG 102	Introduction to Cultural Geography	3
GEOG 103	World Regional Geography	3
HIST 101	History of World Civilization to the 17th Century	3
HIST 102	History of World Civilization 1500 to the Present	3
HIST 122	History of Mexico	3
HIST 131	History of the North American Indian	3
HIST 143	History of the United States to 1877	3
OR		
HIST 143H	History of the United States to 1877 Honors*	3
HIST 144	History of the United States Since 1865	3
OR		
HIST 144H	History of the United States Since 1865 Honors*	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3
OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors*	3
HIST 167	History of California	3
HIST 170	Women in American History	3
HUM 110	Survey of Humanities	3
HUM 111	Survey of Humanities	3
HUM 125	Introduction to Mexican Culture	3
OR		

HUM 125H	Introduction to Mexican Culture Honors*	3
HUM 130	Contemporary Mexican-American Culture	3
HUSR 123	Drug Education and Prevention	3
KIN 170	Sport and Exercise Psychology	3
KIN 190	Women in Sports	3
KIN 195	Social Issues/Media in Sport	3
MSCM 128	Mass Media in Modern Society	3
PHIL 128	Introduction to Political Philosophy (same as POLS 128)	3
OR		
PHIL 128H	Introduction to Political Philosophy Honors (same as POLS 128H)*	3
PHIL 135	Philosophy of Social Justice	3
POLS 110	Government of the United States	3
OR		
POLS 110H	Government of the United States Honors*	3
POLS 115	Women in U.S. Politics	3
POLS 125	Law and Democracy	3
POLS 128	Introduction to Political Philosophy (same as PHIL 128)	3
OR		
POLS 128H	Introduction to Political Philosophy Honors (same as PHIL 128H)*	3
POLS 130	Comparative Government	3
POLS 135	International Political Economy (same as ECON 135)	3
POLS 140	International Relations	3
POLS 150	Latinx Politics	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
PSY 112	Lifespan Development	3
PSY 114	Introduction to Abnormal Psychology	3
PSY 121	Drugs, Society, and Behavior	3
PSY 180	Positive Psychology	3
PSY 200	Research Methods in Psychology*	3
READ 101	Critical Reading*	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SOC 102	Major Social Problems	3
SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3
SOC 114	Marriage, Family and Intimate Relationships	3
SOC 120	She, He, They: Intersections of Gender	3
SOC 127	Introduction to Criminology	3
SOC 130	Introduction to Disability Studies	3
SPCH 100	Interpersonal Communication	3
SPCH 101	Public Speaking	3
OR		
SPCH 101H	Public Speaking Honors*	3
SPCH 140	Argumentation and Debate	3
SPCH 150	Intercultural Communication	3

\*Prerequisite

## **B) Growth and Purpose/Health and Wellness**

ANTH 110	Gender and Sexuality	3
CD 106	Child Growth and Development	3
COUN 101	College and Life Success	3
COUN 104	Stress and Anxiety Management for Emotional Well-Being	3
COUN 151	Career Exploration and Life Planning (Same as EDEV 151)	3
EDEV 101	College and Life Success (Same as COUN 101)	3

EDEV 151	Career Exploration and Life Planning (Same as COUN 151)	3
EGSS 130	Introduction to LGBTQ+ Studies	3
HUSR 123	Drug Education and Prevention	3
KIN 159	Leadership in Sport	3
KIN 170	Sport and Exercise Psychology	3
KIN 190	Women in Sports	3
KIN 191	Health: Personal Issues	3
KIN 192	Health: Women's Personal Health	3
KIN 196	Health: Fitness and Wellness	3
NUTR 110	Introduction to Nutrition Science	3
PHIL 122	Philosophical Perspectives on Death & Dying	3
PSY 112	Lifespan Development	3
PSY 121	Drugs, Society, and Behavior	3
SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
DD 214		3

Total: 18

## GENERAL STUDIES WITH AN EMPHASIS IN SOCIAL SCIENCES

### Associate of Arts Degree

#### Description

These courses emphasize the perspective, concepts, theories and methodologies of the variety of disciplines that comprise study in the social sciences. Students will study human experience in the context of the larger society. Students will study how individuals, social subgroups, and societies operate in relation to each other. This emphasis includes lower division coursework that prepares students for potential careers in the helping professions such as teaching, business, government, social work, and non-profit organizations.

To acquire the **Associate of Arts Degree in General Studies with an Emphasis in Social Sciences**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Choose 18 units of coursework including two or more disciplines form the following list:		Units: 18
AJ 101	Introduction to Administration of Justice	3
ANTH 101	Introduction to Physical Anthropology	3
OR		
ANTH 101H	Introduction to Physical Anthropology Honors*	3
ANTH 102	Introduction to Cultural Anthropology	3
OR		
ANTH 102H	Introduction to Cultural Anthropology Honors*	3
ANTH 103	Introduction to Archaeology	3
ANTH 104	Introduction to Language and Culture	3
ANTH 110	Gender and Sexuality	3
ANTH 115	Introduction to Medical Anthropology	3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural	3
CD 106	Child Growth and Development	3
CD 208	Child, Family, and Community	3
CHST 101	Introduction to Chicana/o/x Studies	3
CHST 146	The Mexican American in the History of the United States	3
CHST 148	La Chicana: Mexican-American Women in Contemporary Society	3
OR		
CHST 148H	La Chicana: Mexican-American Women in Contemporary Society Honors*	3
CHST 150	Chicana/o/x Politics	3
ECON 101	Principles of Macroeconomics*	3
OR		

ECON 101H	Principles of Macroeconomics Honors*	3
ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
ECON 135	International Political Economy	3
EGSS 110	Introduction to Ethnic Studies	3
EGSS 120	Introduction to Women's Studies	3
EGSS 130	Introduction to LGBTQ+ Studies	3
GEOG 102	Introduction to Cultural Geography	3
GEOG 103	World Regional Geography	3
HIST 101	History of World Civilization to the 17th Century	3
HIST 102	History of World Civilization 1500 to the Present	3
HIST 122	History of Mexico	3
HIST 131	History of the North American Indian	3
HIST 143	History of the United States to 1877	3
OR		
HIST 143H	History of the United States to 1877 Honors*	3
HIST 144	History of the United States Since 1865	3
OR		
HIST 144H	History of the United States Since 1865 Honors*	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3
OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors*	3
HIST 167	History of California	3
HIST 170	Women in American History	3
HUM 110	Survey of Humanities	3
HUM 111	Survey of Humanities	3
HUM 125	Introduction to Mexican Culture	3
OR		
HUM 125H	Introduction to Mexican Culture Honors*	3
HUM 130	Contemporary Mexican-American Culture	3
KIN 170	Sport and Exercise Psychology	3
KIN 190	Women in Sports	3
KIN 195	Social Issues/Media in Sport	3
MSCM 128	Mass Media in Modern Society	3
PHIL 128	Introduction to Political Philosophy (same as POLS 128)	3
OR		
PHIL 128H	Introduction to Political Philosophy Honors (same as POLS 128H)*	3
PHIL 135	Philosophy of Social Justice	3
POLS 110	Government of the United States	3
OR		
POLS 110H	Government of the United States Honors*	3
POLS 115	Women in U.S. Politics	3
POLS 125	Law and Democracy	3
POLS 128	Introduction to Political Philosophy (same as PHIL 128)	3
OR		
POLS 128H	Introduction to Political Philosophy Honors (same as PHIL 128H)*	3
POLS 130	Comparative Government	3
POLS 135	International Political Economy (same as ECON 135)	3
POLS 140	International Relations	3
POLS 150	Latinx Politics	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
PSY 112	Lifespan Development	3
PSY 114	Introduction to Abnormal Psychology	3
PSY 170	Introduction to Learning and Memory	3
PSY 180	Positive Psychology	3

PSY 200	Research Methods in Psychology*	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SOC 102	Major Social Problems*	3
SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
SOC 114	Marriage, Family and Intimate Relationships	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3
SOC 120	She, He, They: Intersections of Gender	3
SOC 127	Introduction to Criminology	3
SOC 130	Introduction to Disability Studies	3
SPCH 150	Intercultural Communication	3

\*Prerequisite

Total: 18

## GEOGRAPHIC INFORMATION SYSTEMS

### Certificate of Achievement

#### Description

This **Certificate of Achievement in Geographic Information Systems** (GIS) is intended for students interested in becoming a GIS technician. A GIS technician utilizes standard GIS tools and utilities to enter and correct data in GIS databases, including locating addresses and georeferencing scanned maps, as well as digitizing, collecting, and processing data from the field. Most duties assigned to GIS technicians are routine, with a heavy amount of database entry and management, culminating in the eventual generation of maps from data. A GIS technician performs no data interpretation after data has been stored unless under the guidance of the analyst. Many students enrolled in GIS courses at Rio Hondo College have degrees in a variety of disciplines; after completing the GIS courses, these students can be regarded as a GIS analyst within their area of discipline (e.g., crime analyst, environmental planner, etc.).

To acquire the **Geographic Information Systems Certificate of Achievement**, students must complete the following courses:

Required Courses	Units: 20	
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4
GIS 220	GIS Applications*	4
GIS 221	Cartography Design and Geographic Information Systems*	4
GIS 130	Field Data Applications for GIS*	4
GIS 280	Geospatial Programming and Web Services*	4
<b>Complete a minimum of 3 units from the courses below:</b>		<b>Units: 3-5.5</b>
CIV 142	Introduction to Land Surveying and GPS	4
GIS 150	Small Unmanned Aircraft Systems Procedures and Regulations	1.5
GIS 222	GIS for Civil Engineering and Public Works*	4
GIS 230	Geographic Information Systems (GIS) in Environmental Technology*	3
GIS 281	Crime Mapping and Analysis	4
ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4

\*Prerequisite

Total: 23-25.5



# GEOGRAPHIC INFORMATION SYSTEMS/APPLIED GEOGRAPHIC INFORMATION SYSTEMS

## Associate of Science Degree

### Description

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The courses listed will lead to the **Associate of Science in Applied Geographic Information Systems**. The degree prepares students for either technician or analyst careers using GIS in the fields of civil engineering, biology, public safety, planning and landscape architecture, public health, social sciences, and public administration. Completion of this program is designed to prepare students to transfer into a bachelor's degree program.

To acquire the **Associate of Science Degree in Applied Geographic Information Systems**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

#### Required Courses

Units: 17-20

GIS 120	Introduction to Geographic Information Systems and Spatial Analysis	4
GIS 220	GIS Applications*	4
GIS 221	Cartography Design and Geographic Information Systems*	4
GIS 280	Geospatial Programming and Web Services*	4
GIS 290	Cooperative Work Experience / Internship for Geographic Information Systems Related Fields	1-4

#### Choose two courses from one of the following specialization tracks:

Units: 7-8

##### Civil Engineering Specialization Track

ENGT 150	AutoCAD for Basic CADD Applications	4
OR		
ENGT 170	MicroStation for Basic CADD Applications	4
GIS 130	Field Data Applications for GIS*	4
CIV 142	Introduction to Land Surveying and GPS	4

##### Environmental Specialization Track

GIS 130	Field Data Applications for GIS*	4
GIS 230	Geographic Information Systems (GIS) in Environmental Technology*	3

##### Data Analyst Specialization Track

GIS 281	Crime Mapping and Analysis	4
PSY 190	Statistics for the Behavioral Sciences*	4

Total: 24-28



## GEOLOGY

### Associate in Science for Transfer

### Description

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The **Associate in Science in Geology for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Geology majors (or similar majors) at a CSU campus that offers a Geology baccalaureate degree.

It will prepare students who are intending to transfer to any four-year university or college with an introductory background in geology and the history of our earth—as well as the mathematical tools and qualitative and quantitative thinking skills necessary to understand our beautiful planet.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Geology:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Geology program at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 26</b>
GEOL 150	Physical Geology	3
GEOL 151	Physical Geology Laboratory*	1
GEOL 152	Historical Geology	3
GEOL 152L	Historical Geology Lab*	1
CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
<b>CSU GE or IGETC Pattern (Units will vary)</b>		
<b>Transferable Electives as needed to reach 60 transferable units</b>		
<b>DEGREE TOTAL 60 units</b>		

\*Prerequisite

Total: 26

## GRAPHIC ART AND DESIGN

### Associate of Arts Degree

#### Description

The **Associate of Arts Degree in Graphic Art and Design** is designed for students interested in visual arts and graphic design. This degree combines traditional visual art topics with practical graphic design skills. Students will learn to produce solutions to visual communication problems. The form of the communication can be print or digital, and include photographs, typography, illustration and other graphic forms. The work produced includes branding and identity designs, publication designs, advertising, packaging, motion graphics, websites, information architecture, and other types of communication design. Students will explore both art and design history and learn the principles and elements of design.

To acquire the **Associate of Arts Degree in Graphic Art and Design**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 27</b>
ART 106	Survey of Western Art: Renaissance to Contemporary	3
OR		

ART 106H	Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 120	Two Dimensional Design	3
ART 124	Color Theory	3
PHTO 110	Introduction to Digital Photography	3
GDSN 110	History of Graphic Design	3
GDSN 150	Typography	3
GDSN 162	Introduction to Web Design: User Experience Design (UX)	3
GDSN 164	Digital Illustration Design	3
GDSN 178	Digital Imaging Design	3

\*Prerequisite

Total: 27

## GRAPHIC DESIGN

### Associate of Science Degree

#### Description

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The **Associate of Science Degree in Graphic Design** prepares students for entry in graphic design and associated communication design industries and assists students seeking an undergraduate degree. Courses listed in the degree provide the student with the technical and critical thinking skills needed to produce and present visual communication solutions. This AS degree will enable students to build a portfolio of graphic design work in-line with industry standards and expectations including (but not limited to) branding and identity design, publication design, advertising and entertainment design, package design, website and interaction design, and other types of communication design.

NOTE: Students interested in transferring as a Graphic Design major should consult with a counselor for appropriate general education & major preparation counseling.

To acquire the **Associate of Science Degree in Graphic Design**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 30	
ART 124	Color Theory	3
GDSN 110	History of Graphic Design	3
GDSN 150	Typography	3
GDSN 162	Introduction to Web Design: User Experience Design (UX)	3
GDSN 163	Intermediate Web Design: Interactive Design*	3
GDSN 164	Digital Illustration Design	3
GDSN 165	Branding and Identity Design*	3
GDSN 172	Publication Design	3
GDSN 178	Digital Imaging Design	3
GDSN 179	Advanced Digital Imaging Design*	3

\*Prerequisite

Total: 30

## GRAPHIC DESIGN

### Certificate of Achievement

#### Description

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Print and digital graphic design solutions require the designers to be versed in the manipulation of visual imagery, the use of typography, and the principles and elements of design; research and development related to clients and audiences are also

essential components in creating effective graphic design concepts. The courses required for this certificate provide the foundational skills needed to create effective graphic design solutions.

To acquire the **Certificate of Achievement in Graphic Design**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 18</b>
GDSN 110	History of Graphic Design	3
GDSN 150	Typography	3
GDSN 162	Introduction to Web Design: User Experience Design (UX)	3
GDSN 164	Digital Illustration Design	3
GDSN 172	Publication Design	3
GDSN 178	Digital Imaging Design	3
		Total: 18

## **GRAPHIC DESIGN/ADVERTISING DESIGN**

### **Certificate of Achievement**

#### **Description**

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Students are taught the foundational skills needed to create effective Advertising Design solutions. Print and digital advertising require the designer to be versed in the manipulation of visual imagery, the use of typography as well as the Principles and Elements of design. Research and development of both the client and audience are also essential components in creating effective advertising solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Advertising Design**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 12</b>
GDSN 150	Typography	3
GDSN 164	Digital Illustration Design	3
GDSN 178	Digital Imaging Design	3
GDSN 179	Advanced Digital Imaging Design*	3
*Prerequisite		
		Total: 12

## **GRAPHIC DESIGN/BRANDING IDENTITY & DESIGN**

### **Certificate of Achievement**

#### **Description**

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Students are taught the foundational skills needed to create effective Branding & Identity Design solutions. Print and digital Branding & Identity solutions require the designer to be versed in the manipulation of visual imagery, the use of typography as well as the Principles and Elements of design. Research and development of both the client and audience are also essential components in creating effective Branding & Identity solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Branding Identity & Design**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 12</b>
GDSN 150	Typography	3
GDSN 162	Introduction to Web Design: User Experience Design (UX)	3
GDSN 164	Digital Illustration Design	3
GDSN 165	Branding and Identity Design*	3

\*Prerequisite

Total: 12

## GRAPHIC DESIGN/ENTREPRENEURIAL GRAPHIC DESIGN Certificate of Achievement

### Description

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The curriculum in this certificate provides foundational entrepreneurial preparation for students entering a freelance graphic design career and/or starting a small graphic design business. The certificate combines the entry-level small-business management and marketing skills and intermediate/advanced graphic design skills needed to participate as an entrepreneur in the graphic design profession.

To acquire the **Certificate of Achievement in Entrepreneurial Graphic Design**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 12</b>
MGMT 130	Small Business Management--Entrepreneurship	3
MRKT 174	Small Business Marketing and Advertising	3
GDSN 290	Cooperative Work Experience/Internship For Graphic Design Related Fields	3
GDSN 299	Directed Study in Graphic Design	3

<b>Choose a minimum of 9 units from the following:</b>		<b>Units: 9</b>
GDSN 110	History of Graphic Design	3
GDSN 151	Typographic Design*	3
GDSN 163	Intermediate Web Design: Interactive Design*	3
GDSN 165	Branding and Identity Design*	3
GDSN 174	Packaging Design*	3

\*Prerequisite

Total: 21

## GRAPHIC DESIGN/PACKAGING DESIGN Certificate of Achievement

### Description

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Print and digital packaging require designers to be versed in the manipulation of visual imagery, the use of typography, and the principles and elements of design; research and development related to clients and audiences are also essential components in creating effective packaging solution concepts. The courses required in this certificate provide these foundational skills needed to create effective packaging design solutions.

To acquire the **Certificate of Achievement in Graphic Design: Packaging Design**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 12</b>
GDSN 150	Typography	3
GDSN 164	Digital Illustration Design	3
GDSN 174	Packaging Design*	3
GDSN 178	Digital Imaging Design	3

\*Prerequisite

Total: 12

## GRAPHIC DESIGN/PUBLICATION DESIGN

### Certificate of Achievement

#### Description

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Students are taught the foundational skills needed to create effective Publication Design solutions. Print and digital Publication Design solutions require the designer to be versed in the manipulation of visual imagery, the use of typography as well as the Principles and Elements of design. Research and development of both the client and audience are also essential components in creating effective Publication Design solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Publication Design**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses		Units: 12
GDSN 150	Typography	3
GDSN 151	Typographic Design*	3
GDSN 164	Digital Illustration Design	3
GDSN 172	Publication Design	3

\*Prerequisite

Total: 12

## GRAPHIC DESIGN/WEBSITE DESIGN

### Certificate of Achievement

#### Description

---

Students are taught the foundational skills needed to create effective Website Design and Digital Media solutions. Website Design and Digital Media solutions require the designer to be versed in the manipulation of visual imagery, the use of typography as well as the Principles and Elements of design. Research and development of both the client and audience are also essential components in creating effective Website Design and Digital Media solution concepts.

To acquire the **Certificate of Achievement in Graphic Design: Website Design**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses		Units: 12
GDSN 150	Typography	3
GDSN 162	Introduction to Web Design: User Experience Design (UX)	3
GDSN 163	Intermediate Web Design: Interactive Design*	3
GDSN 178	Digital Imaging Design	3

\*Prerequisite

Total: 12

## HEALTH SCIENCE PREPARATION

### Certificate of Achievement

#### Description

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The **Certificate of Achievement in Health Science Preparation** will provide students with all the courses necessary to pursue further education in a variety of health science programs such as nursing, dental hygiene, physical therapy, occupational therapy, medical laboratory technicians, and radiological sciences. In order to earn this Certificate of Achievement, students must complete all required courses with a grade of "C" or higher.

To acquire the **Certificate of Achievement in Health Science Preparation**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 21.5</b>
BIOL 125	Human Anatomy	4
BIOL 222	Microbiology*	5
BIOL 226	Human Physiology*	4
CHEM 110	Chemistry for Allied Health Majors*	5
OR		
CHEM 120	Introduction to Chemistry*	5
ENGL 101	College Composition and Research*	3.5

\*Prerequisite

Total: 21.5

## **HEAT AND FROST INSULATORS**

### **Associate of Science Degree**

#### **Description**

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The Heat and Frost Insulator Associate of Science Degree is designed to prepare students who are interested in careers in the heat and frost insulators industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and standards). Students gain the skills and knowledge necessary to work in the heat and frost insulators industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.

To acquire the **Associate of Science Degree in Heat and Frost Insulators**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Ro Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 25</b>
HEFR 040	Insulation Industry Orientation*	2.5
HEFR 041	Mechanical Piping Systems*	2.5
HEFR 042	Boiler Insulation*	2.5
HEFR 043	Construction Mathematics*	2.5
HEFR 044	Mechanical Piping Insulation*	2.5
HEFR 045	Foam & Firestopping Insulation*	2.5
HEFR 046	Blueprint Reading*	2.5
HEFR 047	Prefabricated Buildings*	2.5
HEFR 048	Firestop Applications*	2.5
HEFR 049	Advanced Life Safety Firestop Applications*	2.5

\*Prerequisite

Total: 25

## **HEAT AND FROST INSULATORS**

### **Certificate of Achievement**

#### **Description**

---

The Heat and Frost Insulator Certificate of Achievement is designed to prepare students who are interested in careers in the heat and frost insulators industry to meet the needs of indentured apprentices with the State of California (i.e., programs, system, and standards). Students gain the skills and knowledge necessary to work in the heat and frost insulators industry in compliance with governmental regulations, and simultaneously to protect human health and the environment.



To acquire the **Certificate of Achievement in Heat and Frost Insulators**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 25</b>
HEFR 040	Insulation Industry Orientation*	2.5
HEFR 041	Mechanical Piping Systems*	2.5
HEFR 042	Boiler Insulation*	2.5
HEFR 043	Construction Mathematics*	2.5
HEFR 044	Mechanical Piping Insulation*	2.5
HEFR 045	Foam & Firestopping Insulation*	2.5
HEFR 046	Blueprint Reading*	2.5
HEFR 047	Prefabricated Buildings*	2.5
HEFR 048	Firestop Applications*	2.5
HEFR 049	Advanced Life Safety Firestop Applications*	2.5

\*Prerequisite

Total: 25

## HEAVY EQUIPMENT DIESEL ENGINES TECHNICIAN

### Certificate of Achievement

#### Description

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The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment diesel engine service technician at a modern heavy equipment and machinery repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment Diesel Engines Technician**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 12</b>
HET 107	Heavy Equipment Operation, Performance Testing and Adjusting*	4
HET 150	Heavy Equipment Fuel Systems and Emissions*	4
HET 160	Heavy Equipment Diesel Engines*	4

\*Prerequisite

Total: 12

## HEAVY EQUIPMENT ELECTRONICS TECHNICIAN

### Certificate of Achievement

#### Description

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The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will help one pass the certification license (EPA Rule 1411) for Motor Vehicle Air Conditioning Service. The certificate is designed to prepare an individual for entry-level employment as a Heavy Equipment Electrical/Electronic Systems and/or Heating, Ventilation and Air Conditioning Service/Repair technician.

To acquire the **Certificate of Achievement in Heavy Equipment Electronics Technician**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 12</b>
HET 107	Heavy Equipment Operation, Performance Testing and Adjusting*	4
HET 140	Heavy Equipment Electrical Diagnosis*	4

HET 240 Heavy Equipment Heating, Ventilation, and Air Conditioning\*

4

Total: 12

## HEAVY EQUIPMENT GENERAL SERVICE TECHNICIAN

### Certificate of Achievement

#### Description

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The courses required in this Certificate of Achievement are comprised of a comprehensive list of job-related skills needed to acquire general heavy equipment skills. The skills acquired during class will prepare an individual for entry-level employment as a general heavy equipment service technician such as a Lube or Periodic Maintenance technician or other positions within a heavy equipment repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment General Service Technician**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses		Units: 15
HET 101	Introduction to Heavy Equipment Technology	4
HET 106	Heavy Equipment Electrical Fundamentals	4
HET 107	Heavy Equipment Operation, Performance Testing and Adjusting*	4
HET 290	Cooperative Work Experience/Internship for Heavy Equipment Technology Related Fields	1-4
WELD 040	Introduction to Welding Processes	2

\*Prerequisite

Total: 15

## HEAVY EQUIPMENT HYDRAULICS TECHNICIAN

### Certificate of Achievement

#### Description

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The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment hydraulic systems service technician at a modern heavy equipment and machinery repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment Hydraulics Technician**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses		Units: 12
HET 107	Heavy Equipment Operation, Performance Testing and Adjusting*	4
HET 200	Heavy Equipment Hydraulic Fundamentals*	4
HET 210	Heavy Equipment Hydraulic Diagnostics*	4

\*Prerequisite

Total: 12

## HEAVY EQUIPMENT MAINTENANCE TECHNICIAN

### Certificate of Achievement

#### Description

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The courses required for this Certificate of Achievement encompass a comprehensive list of job-related skills required to acquire heavy equipment maintenance skills. The skills obtained through these courses prepare students for entry-level employment as heavy equipment maintenance technicians or other positions within a heavy equipment repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment Maintenance Technician**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>	<b>Units: 15</b>
HET 121            Introduction to Heavy Equipment Maintenance	3
HET 122            Introduction to Heavy Equipment Electrical and Diagnostic Procedures	3
HET 123            Introduction to Heavy Equipment Mobile Hydraulics	3
HET 124            Introduction to Heavy Equipment Powertrains	3
HET 125            Introduction to Diesel Engines, Fuel Systems and Emissions	3
<b>Choose one of the following courses:</b>	<b>Units: 1-4</b>
HET 240            Heavy Equipment Heating, Ventilation, and Air Conditioning*	4
OR	
HET 290            Cooperative Work Experience/Internship for Heavy Equipment Technology Related Fields	1-4
OR	
HET 299            Directed Study in Heavy Equipment Technology	1-3
	Total: 16-19

## HEAVY EQUIPMENT POWERTRAINS TECHNICIAN

### Certificate of Achievement

#### Description

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The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment powertrain systems service technician at a modern heavy equipment and machinery repair facility.

To acquire the **Certificate of Achievement in Heavy Equipment Powertrains Technician**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>	<b>Units: 12</b>
HET 107            Heavy Equipment Operation, Performance Testing and Adjusting*	4
HET 220            Heavy Equipment Powertrains I*	4
HET 230            Heavy Equipment Powertrains II*	4
 *Prerequisite	
	Total: 12

## HEAVY EQUIPMENT SERVICE TECHNICIAN

### Certificate of Achievement

#### Description

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The courses listed in the Certificate of Achievement are comprised of a comprehensive list of job skills needed to enter the heavy equipment field. The skills developed during class will prepare an individual for entry-level employment as a Heavy Equipment Service Technician at a modern heavy equipment and machinery facility.

To acquire the **Heavy Equipment Service Technician Certificate of Achievement**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units: 32
HET 140      Heavy Equipment Electrical Diagnosis*	4
HET 150      Heavy Equipment Fuel Systems and Emissions*	4
HET 160      Heavy Equipment Diesel Engines*	4
HET 200      Heavy Equipment Hydraulic Fundamentals*	4
HET 210      Heavy Equipment Hydraulic Diagnostics*	4
HET 220      Heavy Equipment Powertrains I*	4
HET 230      Heavy Equipment Powertrains II*	4
HET 240      Heavy Equipment Heating, Ventilation, and Air Conditioning*	4

\*Prerequisite

Total: 32

## HEAVY EQUIPMENT TECHNOLOGY

### Associate of Science Degree

#### Description

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The courses listed in the Associate of Science Degree are comprised of a comprehensive list of job skills needed to enter the heavy equipment field. The skills developed during class will prepare an individual for entry-level employment as a Heavy Equipment Service Technician at a modern heavy equipment and machinery facility.

To acquire the **Associate of Science Degree in Heavy Equipment Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 32
HET 140      Heavy Equipment Electrical Diagnosis*	4
HET 150      Heavy Equipment Fuel Systems and Emissions*	4
HET 160      Heavy Equipment Diesel Engines*	4
HET 200      Heavy Equipment Hydraulic Fundamentals*	4
HET 210      Heavy Equipment Hydraulic Diagnostics*	4
HET 220      Heavy Equipment Powertrains I*	4
HET 230      Heavy Equipment Powertrains II*	4
HET 240      Heavy Equipment Heating, Ventilation, and Air Conditioning*	4

\*Prerequisite

Total: 32



## HISTORY

### Associate in Arts for Transfer

#### Description

The **Associate in Arts in History for Transfer (AA-T) Degree** is intended to meet the lower division requirements for History majors (or similar majors) at a CSU campus that offers a baccalaureate degree. The Associate in Arts in History for Transfer Degree is designed to enable students to explore a broad understanding of the social, political, cultural and economic events and forces that have shaped our nation's past, present and future. In addition to studying the history of the United States, history majors will study other civilizations and cultures gaining a broader perspective and better understanding of the contemporary world. Through a diverse curriculum, students learn to gather, synthesize, analyze and interpret historical evidence, building a strong foundation that prepares students to either transfer to a four-year college or succeed in numerous career paths, such as teaching, law, business administration, journalism and public service.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in History:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the History major at the CSU where they seek transfer.

#### Required Courses

**Units: 12**

HIST 101	History of World Civilization to the 17th Century	3
HIST 102	History of World Civilization 1500 to the Present	3
HIST 143	History of the United States to 1877	3
OR		
HIST 143H	History of the United States to 1877 Honors*	3
HIST 144	History of the United States Since 1865	3
OR		
HIST 144H	History of the United States Since 1865 Honors*	3

#### Choose one course from the following list:

**Units: 3**

HIST 131	History of the North American Indian	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3
OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors*	3
HIST 170	Women in American History	3
HIST 122	History of Mexico	3

#### Choose one course from the following list:

**Units: 3**

CHST 150	Chicana/o/x Politics	3
ECON 101	Principles of Macroeconomics*	3
OR		

ECON 101H	Principles of Macroeconomics Honors*	3
ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
GEOG 102	Introduction to Cultural Geography	3
HIST 167	History of California	3
PHIL 101	Introduction to Philosophy	3
OR		
PHIL 101H	Introduction to Philosophy Honors*	3
POLS 110	Government of the United States	3
OR		
POLS 110H	Government of the United States Honors*	3
POLS 150	Latinx Politics	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 18

## HOMELAND SECURITY Associate of Science Degree

### Description

The **Associate of Science Degree in Homeland Security** is designed to prepare students to meet the needs of entry-level positions in the Homeland Security career fields. The curriculum will prepare students with a foundation of the Homeland Security Enterprise and provide them with the knowledge to enter varied career fields that plan for and respond to the security of people, places and programs. The skills developed during class will enhance the student's ability by completing industry-recognized third party Federal Emergency Management Agency (FEMA) certification courses as part of each class in the core program. The Homeland Security Degree program is designed for First Responders, government officials, emergency managers as well as the citizen interested in personal and community safety and security.

To acquire the **Associate of Science Degree in Homeland Security**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

### Required Courses

**Units: 15**

HMLD 101	Introduction to Homeland Security	3
HMLD 102	Introduction to Emergency Management	3
HMLD 103	Terrorism and Violence in Society	3
HMLD 104	Emergency Planning and Response	3
HMLD 105	Hazard Mitigation in Emergency Management	3

### Choose a minimum of 9 units from the following:

**Units: 9-10**

AJ 101	Introduction to Administration of Justice	3
AJ 102	Criminal Procedures	3
AJ 104	Legal Aspects of Evidence	3
AJ 105	Community Relations/Multicultural Issues Within Public Service	3
AJ 106	Criminal Law I*	3
AJ 107	Criminal Law II*	3
GIS 281	Crime Mapping and Analysis	4
OR		
FTEC 101	Fire Protection Organization	3

FTEC 102	Principles of Fire & Emergency Services Safety & Survival	3
FTEC 103	Fire Behavior and Combustion	3
FTEC 104	Fire Prevention Technology	3
FTEC 105	Building Construction for Fire Protection	3
FTEC 106	Fire Protection Equipment and Systems	3
WFT 101	Wildland Fire Behavior	3
WFT 102	Wildland Firefighter Safety and Survival	3
WFT 103	Wildland Fire Operations	3
WFT 104	Wildland Fire Investigation, Prevention, and Public Information	3
WFT 105	Wildland Fire Logistics, Finance, and Planning	3

\*Prerequisite

Total: 24-25

## HOMELAND SECURITY Certificate of Achievement

### Description

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The **Certificate of Achievement in Homeland Security** is designed to prepare students to meet the needs of entry-level positions in the Homeland Security career fields. The curriculum will prepare students with a foundation of the Homeland Security Enterprise and provide them with the knowledge to enter varied career fields that plan for and respond to the security of people, places and programs. The skills developed during class will enhance the student's ability by completing industry-recognized third-party Federal Emergency Management Agency (FEMA) certification courses as part of each class in the core program. The Homeland Security program is designed for First Responders, government officials, emergency managers as well as the citizen interested in personal and community safety and security.

To acquire the **Certificate of Achievement in Homeland Security**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>	<b>Units: 15</b>	
HMLD 101	Introduction to Homeland Security	3
HMLD 102	Introduction to Emergency Management	3
HMLD 103	Terrorism and Violence in Society	3
HMLD 104	Emergency Planning and Response	3
HMLD 105	Hazard Mitigation in Emergency Management	3

<b>Choose one course from the following:</b>	<b>Units: 3-4</b>	
AJ 101	Introduction to Administration of Justice	3
FTEC 101	Fire Protection Organization	3
WFT 101	Wildland Fire Behavior	3
GIS 281	Crime Mapping and Analysis	4

Total: 18-19

## HOMELAND SECURITY PLANNING AND ADMINISTRATION Certificate of Achievement

### Description

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The **Certificate of Achievement in Homeland Security Planning and Administration** is designed to prepare students to meet the needs of entry-level positions in the Homeland Security career fields. The curriculum will prepare students with an advanced foundation of the Homeland Security Enterprise and provide them with the knowledge to enter varied career fields that plan for and respond to the security of people, places and programs. The skills developed during class will enhance the student's ability by completing industry-recognized third-party Federal Emergency Management Agency (FEMA) certification



courses as part of each class in the core program. The Homeland Security program is designed for First Responders, government officials, emergency managers as well as the citizen interested in personal and community safety and security.

To acquire the **Certificate of Achievement in Homeland Security Planning and Administration**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 24</b>
HMLD 101	Introduction to Homeland Security	3
HMLD 102	Introduction to Emergency Management	3
HMLD 103	Terrorism and Violence in Society	3
HMLD 104	Emergency Planning and Response	3
HMLD 105	Hazard Mitigation in Emergency Management	3
HMLD 200	Foundations of Critical Infrastructure Protection	3
HMLD 203	Homeland Security: Leadership, Policy and Practice	3
HMLD 205	Cybersecurity: Policy and Practice	3

Total: 24

## **HONDA PROFESSIONAL AUTOMOTIVE CAREER TRAINING PROGRAM SPECIALIZATION (PACT) Associate of Science Degree**

### **Description**

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The courses required for this associate of science degree include a comprehensive set of job skills needed to enter the automotive field. The skills developed during coursework enhance students' ability to complete the Automotive Service Excellence (ASE) Certification Tests A1 through A8 for automotive technicians, and to become specialists for Honda/Acura vehicles. The degree is designed to prepare students to transfer and/or for entry-level employment as an automotive technician with a Honda/Acura dealer. This is a full-time, two-year accelerated training and career placement program.

**Note: In partial fulfillment of the requirements for the Honda PACT Certificate/Degree, Honda requires a minimum of 640 internship hours working in a Honda or Acura franchise dealership in order to receive credit toward the Honda/Acura Technician Certification.**

To acquire the **Associate of Science Degree in Honda Professional Automotive Career Training (PACT) Program Specialization**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College general education and proficiency, California State University General Education Breadth (CSU GE-Breadth), or Intersegmental General Education Transfer Curriculum (IGETC) requirements.

<b>Required Courses</b>		<b>Units: 44</b>
AUTO 045	Honda/Acura Express Service	4
AUTO 045-1	Honda/Acura Chassis Electrical Systems*	4
AUTO 046	Honda/Acura Automatic Transmission Systems	4
AUTO 125	Power Train System Service and Transmission Diagnostics*	4
AUTO 140	Body & Chassis Electrical Systems*	4
AUTO 150	Engine Electrical Systems*	4
AUTO 160	Upper End Engine Rebuilding and Machining*	4
AUTO 201	Automotive Brake and Suspension Service*	4
AUTO 240	Heating and Air Conditioning*	4
AUTO 290	Cooperative Work Experience/Internship for Automotive Technology Related Fields	1-8

\*Prerequisite

Total: 44

## HONDA/ACURA BRAKES, SUSPENSION, AND CHASSIS ELECTRICAL SYSTEMS Certificate of Achievement

### Description

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The courses listed in this certificate of achievement constitute a comprehensive training package that includes both cognitive and skill-based training activities. The training from these courses helps prepare students for Automotive Services Excellence (ASE) Certification Tests A4 (Suspension and Steering), A5 (Brakes), and A6 (Electrical/Electronic Systems). Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura dealership network, such as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement in Honda/Acura Brakes, Suspension, and Chassis Electrical**, it is necessary to complete the following courses:

Required Courses	Units: 15
AUTO 045      Honda/Acura Express Service*	4
AUTO 106      Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 201      Automotive Brake and Suspension Service*	4
AUTO 290      Cooperative Work Experience/Internship for Automotive Technology Related Fields	4
	Total: 15

## HONDA/ACURA ENGINE REPAIR AND ENGINE ELECTRICAL SYSTEMS Certificate of Achievement

### Description

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The courses listed in this certificate of achievement constitute a comprehensive training package that includes both cognitive and skill-based training activities. The training in these courses helps prepare students for the Automotive Service Excellence (ASE) Certification Tests A1 (Engine Repair), A6 (Electrical/Electronic Systems), and A8 (Engine Performance). Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura dealership network, such as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement in Honda/Acura Engine Repair and Engine Electrical System**, it is necessary to complete the following courses:

Required Courses	Units: 15
AUTO 045-1      Honda/Acura Chassis Electrical Systems	4
AUTO 101      Introduction to Automotive Service and Repair: Underhood Service	3
AUTO 150      Engine Electrical Systems*	4
AUTO 160      Upper End Engine Rebuilding and Machining*	4

\*Prerequisite

Total: 15

## HONDA/ACURA HEATING AND AIR CONDITIONING SYSTEMS Certificate of Achievement

### Description

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The courses listed in this certificate of achievement constitute a comprehensive training package that includes both cognitive and skill-based training activities. The training in these courses helps prepare students for Automotive Service Excellence (ASE) Certification Tests A6 (Electrical/Electronic Systems) and A7 (Heating and Air Conditioning). Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura dealership network, such as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement in Honda/Acura Heating and Air Conditioning Systems Certificate of Achievement**, it is necessary to complete the following courses:

Required Courses	Units: 15
AUTO 106      Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 140      Body & Chassis Electrical Systems	4
AUTO 240      Heating and Air Conditioning*	4
AUTO 290      Cooperative Work Experience/Internship for Automotive Technology Related Fields	4

\*Prerequisite

Total: 15

## HONDA/ACURA POWERTRAIN AND TRANSMISSION SYSTEMS Certificate of Achievement

### Description

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The courses listed in this certificate of achievement constitute a comprehensive training package for students that includes both cognitive and skill-based training activities. The training from these courses helps to prepare students for Automotive Service Excellence (ASE) Certification Tests A2 (Automatic Transmission/Transaxle), A3 (Manual Drive Train and Axles), and A6 (Electrical/Electronic Systems). Students also develop skill-based training techniques that reflect hands-on work experience. The courses are structured to prepare Honda Professional Automotive Career Training (PACT) students for occupations within the Honda/Acura dealership network, such as express service technicians and/or entry-level repair technicians.

To acquire the **Certificate of Achievement in Honda/Acura Power Train and Transmission Systems**, it is necessary to complete the following courses:

Required Courses	Units: 15
AUTO 046      Honda/Acura Automatic Transmission Systems	4
AUTO 106      Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 125      Power Train System Service and Transmission Diagnostics*	4
AUTO 290      Cooperative Work Experience/Internship for Automotive Technology Related Fields	4

\*Prerequisite

Total: 15



## HOSPITALITY MANAGEMENT Associate in Science for Transfer

### Description

The **Associate in Science in Hospitality Management for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Hospitality Management majors (or similar majors) at a CSU campus that offers a Hospitality baccalaureate degree. This degree is designed for students interested in gaining the basic concepts of Hospitality Management and to prepare them for jobs with local and global hotels, restaurants, airlines, cruise lines, sports arenas, entertainment, and amusement parks. On completion, students are ready to transfer seamlessly into Hospitality Management and related degree programs at a CSU.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Hospitality Management.**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Hospitality major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 3</b>
HOSP 101	Introduction to the Hospitality Industry	3
<b>LIST A: Choose 9 units or 3 courses from the following list:</b>		<b>Units: 9</b>
ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
HOSP 102	Introduction to Hotel Operations	3
HOSP 103	Sanitation and Safety	3
HOSP 104	Introduction to Food and Beverage	3
HOSP 201	Hospitality Law	3
<b>LIST B: Choose 2 courses from the following list or any course from List A above not already used total 6 to 7 units:</b>		<b>Units: 6-7</b>
ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ECON 101	Principles of Macroeconomics*	3
OR		
ECON 101H	Principles of Macroeconomics Honors*	3
<b>CSU GE or IGETC Pattern (Units will vary)</b>		
<b>Transferable Electives as needed to reach 60 transferable units</b>		
<b>DEGREE TOTAL 60 units</b>		

\*Prerequisite

Total: 18-19

## INCOME TAX AND PAYROLL Certificate of Achievement

### Description

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The **Income Tax and Payroll Certificate of Achievement** is intended for students desiring to enter the tax preparation and/or payroll field with a minimum of course requirements. Students will be able to gain the knowledge and analytical tools necessary to use financial data effectively in preparing a variety of tax returns with specialized training in payroll. Common duties performed include payroll tax reporting, payroll accounting systems maintenance, and posting payroll transactions for journals/ledgers.

To acquire the **Certificate of Achievement in Income Tax and Payroll**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 16</b>
ACCT 101	Financial Accounting	4
OR		
ACCT 101H	Financial Accounting Honors*	4
ACCT 103	Payroll Accounting	3
ACCT 105	Income Tax Accounting	4
ACCT 106	Computerized Accounting	3
ACCT 108	Volunteer Income Tax Assistance Program I	1
ACCT 109	Volunteer Income Tax Assistance Program II*	1

\*Prerequisite

Total: 16

## INTERNATIONAL BUSINESS Certificate of Achievement

### Description

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This Certificate of Achievement is designed for those students who wish to pursue a career in international business. This program is also for those students already employed in the international field who wish to improve on their international management and organizational skills which can lead to a management position in international business.

To acquire the **Certificate of Achievement in International Business**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 15</b>
MGMT 140	Introduction to International Business	3
MGMT 141	International Marketing	3
MGMT 142	International Management	3
MGMT 143	Import and Export Business	3
MGMT 147	Global Business and Culture	3
<b>Choose a minimum of 3 units from the following:</b>		<b>Units: 3</b>
MGMT 108	Business Writing	3
MGMT 208	Business Communications*	3
BUSL 110	Legal Environment of Business	3

\*Prerequisite

Total: 18

## INTERNATIONAL BUSINESS MANAGEMENT Associate of Science Degree

### Description

The Degree in International Business Management is designed for students who wish to pursue a career in business and desire to work with businesses in other countries. The program is also for students already employed in the international business field who wish to improve their international management and organizational skills. The program also prepares students for management positions in international business.

To acquire the **Associate of Science Degree in International Business Management**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 28
ACCT 101            Financial Accounting	4
OR	
ACCT 101H        Financial Accounting Honors*	4
BUSL 110         Legal Environment of Business	3
LOG 101          Supply Chain Management	3
MGMT 108        Business Writing	3
MGMT 140        Introduction to International Business	3
MGMT 141        International Marketing	3
MGMT 142        International Management	3
MGMT 143        Import and Export Business	3
MGMT 147        Global Business and Culture	3

\*Prerequisite

Total: 28



## JOURNALISM Associate in Arts for Transfer

### Description

The **Associate in Arts in Journalism for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Journalism majors (or similar majors) at a CSU campus that offers a Journalism baccalaureate degree.

This degree is designed for students interested in an introduction to the field of Journalism and for students looking to further their education in the field of Journalism to best be prepared to enter the job market. Students will demonstrate a wide breadth and depth of understanding of mass media theories, methods and concepts. The degree is intended for students who are interested in Journalism and are planning on transferring to a California State University and majoring in Journalism or Mass Communications. Other similar Mass Communication concentrations are Broadcast Journalism, Entertainment Studies, Photo Communications and Public Relations.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Journalism:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)

3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Journalism major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 10</b>
MSCM 128	Mass Media in Modern Society	3
JOUR 120	Communications Reporting and Writing	3
JOUR 241	Newspaper Production I*	4
OR		
JOUR 242	Digital Newspaper Production I*	4
<b>LIST A: Select one (3-4 units)</b>		<b>Units: 3-4</b>
JOUR 110	Digital Photojournalism I	3
JOUR 243	Newspaper Production II*	4
OR		
JOUR 244	Digital Newspaper Production II*	4
<b>LIST B: Select two (6-8 units)</b>		<b>Units: 6-8</b>
ECON 101	Principles of Macroeconomics*	3
OR		
ECON 101H	Principles of Macroeconomics Honors*	3
ECON 102	Principles of Microeconomics*	3
OR		
ECON 102H	Principles of Microeconomics Honors*	3
ENGL 201	Advanced Composition and Critical Thinking*	3.5
OR		
ENGL 201H	Advanced Composition and Critical Thinking Honors*	3.5
GDSN 172	Publication Design	3
JOUR 147	Broadcast News	3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4
PHIL 112	Introduction to Logic	3
OR		
PHIL 112H	Introduction to Logic Honors*	3
PHTO 130	Beginning Photography	3
POLS 110	Government of the United States	3
OR		
POLS 110H	Government of the United States Honors*	3
POLS 130	Comparative Government	3
SPCH 130	Oral Interpretation	3
SPCH 140	Argumentation and Debate	3
OR		
SPCH 240	Argumentation and Discussion*	3
<b>If not chosen above, the following courses may be used to satisfy the List B requirement:</b>		
JOUR 110	Digital Photojournalism I	3
JOUR 243	Newspaper Production II*	4
OR		
JOUR 244	Digital Newspaper Production II*	4

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**





## KINESIOLOGY

### Associate in Arts for Transfer

#### Description

The **Associate in Arts in Kinesiology for Transfer** is designed to provide students preparing to transfer with the foundation to complete a Bachelor's Degree in Kinesiology. Students will be able to pursue careers in teaching, coaching, physical therapy, athletic training, and adaptive physical education.

The Associate in Arts in Kinesiology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Kinesiology majors (or similar majors) at a CSU campus that offers a Kinesiology baccalaureate degree.

This degree is designed for the transfer-oriented student who seeks to explore Kinesiology in preparation for a Bachelor's degree. Students will gain information and experience in areas that will prepare them for a job or a career in the field of teaching, youth or professional sports, coaching, fitness and health industry, physical therapy, athletic training, sports management, and lifesaving skills in First Aid and C.P.R. The degree will provide students the opportunity to pursue work in: youth sports and summer camps, in the fitness industry, assisting physical education professionals and creating new business opportunities in the area of physical activity and sports.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Associate in Arts in Kinesiology for Transfer:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Kinesiology major at the CSU where they seek transfer.

#### Required Courses

**Units: 11**

BIOL 125	Human Anatomy	4
BIOL 226	Human Physiology*	4
KIN 194	Introduction to Kinesiology	3

**Movement Based Courses - Select a maximum of one (1) course from any three (3) of the following areas for a minimum of three (3) units:**

**Units: 3**

#### AQUATICS

KINA 117	Swimming I	1
KINA 217	Swimming II	1

#### DANCE

DANC 150	Introduction to World Dance	1
DANC 151	Modern Dance I	1

DANC 153	Ballet I	1
DANC 154	Jazz Dance I	1
DANC 157	Hip-Hop Dance	1
DANC 251	Modern Dance II*	1
DANC 253	Ballet II*	1
DANC 254	Jazz Dance II*	1

**FITNESS**

DANC 114	Conditioning & Alignment for the Dancer	1
KINA 120	Swim for Fitness	1
KINA 130	Fitness and Wellness Laboratory	1-2
KINA 132	Aqua Aerobics	1
KINA 134	Cardio Boot Camp	1
KINA 136	Pilates Mat I	1
KINA 139	Cross Training for Fitness	1
KINA 140	Walking for Fitness	1
KINA 148	Strength Training	1
KINA 158	Yoga I	1
KINA 230	Fitness and Wellness Laboratory II *	1-2
KINA 258	Yoga II*	1

**INDIVIDUAL SPORTS**

KINA 101	Tennis I	1
KINA 107	Badminton I	1
KINA 113	Golf I	1

**TEAM SPORTS**

KINA 103	Softball I	1
KINA 104	Volleyball I	1
KINA 105	Basketball I	1
KINA 108	Water Polo I	1
KINA 109	Soccer I	1
KINA 110	Futsal (Indoor Soccer)	1
KINA 201	Tennis II	1
KINA 204	Volleyball II	1
KINA 205	Basketball II*	1
KINA 207	Badminton II*	1
KINA 209	Soccer II*	1
KINA 213	Golf II*	1

**Choose two courses from the following:**

**Units: 7-9**

MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4
CHEM 130	General Chemistry I*	5
PHY 150	General Physics I*	4
OR		
PHY 211	Physics for Scientists & Engineers - I*	4
KIN 193	Standard First Aid and C.P.R.	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 21-23

## KINESIOLOGY\*/ATHLETIC TRAINER'S AID Career Certificate

### Description

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The **Athletic Trainer's Aide Certificate** is designed to develop, practice and implement basic skills in the prevention, treatment and rehabilitation of athletic injuries. These courses will set a foundation that will aid in the pursuit of a career in the sports medicine And health care industries. This program will better prepare students for transfer into an accredited athletic training education program at the four-year university level or increase the breadth of education for those seeking a career in other allied healthcare fields. The student must attain a grade of "C" or higher in each course for completion.

<b>Required Courses</b>		<b>Units: 16</b>
KIN 290	Cooperative Work Experience/Internship for Athletic Training Related Fields*	4
KIN 193	Standard First Aid and C.P.R.	3
KIN 194	Introduction to Kinesiology	3
KIN 197	Prevention and Treatment of Athletic Injuries	3
KIN 297	Advanced Athletic Training*	3

\*Prerequisite

Total: 16

## KINESIOLOGY/COACHING OF SPORTS Certificate of Achievement

### Description

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The **Coaching of Sports Certificate of Achievement** is designed to prepare students for employment as a coach in the sporting/athletic career field. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip students with the background, both theoretical and practical, to pursue a job as a coach. Students are prepared to complete the American Sports Education Program (ASEP) coaching certification, Positive Coaching Alliance (PCA) certifications and take the mandatory California Interscholastic Federation (CIF) test for employment. Courses in nutrition, strength and conditioning, first aid, or athletic training will prepare students for responsibilities in the field of coaching. The intent of this program is to prepare students in the field of physical activity so they may pursue a career in coaching; the courses offered will help students as they continue to pursue this career path, and prepare students for immediate entry-level employment in the field of coaching.

To acquire the **Certificate of Achievement in Coaching of Sports**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 18</b>
KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
KIN 159	Leadership in Sport	3
KIN 188	Theory of Coaching	3
KIN 193	Standard First Aid and C.P.R.	3
KIN 170	Sport and Exercise Psychology	3
OR		
KIN 195	Social Issues/Media in Sport	3

Total: 18

## KINESIOLOGY/COMMUNITY HEALTH WORKER Certificate of Achievement

### Description

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The **Community Health Worker Certificate of Achievement** is designed to prepare students for employment as health professionals in the medical, education, and health and wellness career fields. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip students with the background, both theoretical and practical, to pursue a job promoting community health and education. Courses in nutrition, special populations, psychology/sociology, first aid, and lifelong physical activity will prepare students for responsibilities in the field of health. The program will also expose students to other areas, including health education, healthcare services, gerontology, wellness promotion, pre-allied health, nutritional science, counseling/social advocacy services, public health, and medical fields.

To acquire the **Certificate of Achievement in Community Health Worker**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 18</b>
KIN 122            Nutrition for Sport and Fitness	3
KIN 146            Training Principles for Special Populations	2
KIN 193            Standard First Aid and C.P.R.	3
KIN 197            Prevention and Treatment of Athletic Injuries	3
KIN 191            Health: Personal Issues	3
OR	
KIN 192            Health: Women's Personal Health	3
OR	
KIN 196            Health: Fitness and Wellness	3
PSY 180            Positive Psychology	3
OR	
SOC 102            Major Social Problems	3
CWEG 290          Cooperative Work Experience Education - General	1-3

<b>Choose two courses from below:</b>	<b>Units: 2-3</b>
KINA 120            Swim for Fitness	1
KINA 130            Fitness and Wellness Laboratory	1-2
KINA 132            Aqua Aerobics	1
KINA 136            Pilates Mat I	1
KINA 139            Cross Training for Fitness	1
KINA 140            Walking for Fitness	1
KINA 158            Yoga I	1

Total: 20-21

## KINESIOLOGY/FITNESS AND SPORT MANAGEMENT Certificate of Achievement

### Description

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The fitness and sport fields have become dynamic growth industries and are recognized as multi-billion dollar global enterprises. The Fitness and Sport Management Certificate is designed to prepare individuals to apply business, coaching, and physical education principles to the organization, administration, and management of athletic programs and teams, fitness/rehabilitation facilities and health clubs, sport recreation services, and related services. The program includes instruction in program planning and development; business and financial management principles; sales, marketing and recruitment; event promotion, scheduling and management; facilities management; public relations; the psychology of sport and exercise, and legal aspects of sports. Depending on their specific interests, professionals in this field can do anything from managing a local gym, fitness studio, or sports camp. They may work in a college or professional sport venue and manage facilities, operations, and assist with marketing and social media. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical, to pursue an entry-level job managing and promoting both fitness and sport organizations.

To acquire the **Certificate of Achievement in Fitness and Sport Management**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 18</b>
KIN 110	Introduction to Fitness and Sport Management	3
KIN 159	Leadership in Sport	3
KIN 120	Sports Law and Ethics	3
KIN 188	Theory of Coaching	3
KIN 195	Social Issues/Media in Sport	3
KIN 170	Sport and Exercise Psychology	3

Total: 18

## **KINESIOLOGY/FITNESS SPECIALIST Certificate of Achievement**

### **Description**

The Fitness Specialist Certificate program is designed to prepare students for employment as fitness instructors and careers in the rapidly expanding health and fitness industry. Students gain academic knowledge and fitness skills through the required course work, and develop the skills necessary to apply this knowledge in a vocational setting. The certificate is designed to be completed in one calendar year for students who attend full time, and may lead to immediate employment opportunities. The curriculum has been designed to equip students with the scientific background, both theoretical and practical, to successfully customize fitness programs that include education and guidance on nutrition, weight control, flexibility, core strength, cardiovascular exercise, and resistance training. Students are also prepared to pass national certification exams in health, fitness, strength and conditioning. The program will prepare students for transfer to a university in order to pursue a higher degree in various areas of study.

To acquire the **Certificate of Achievement in Fitness Specialist**, it is necessary to complete the following courses with a grade of "C" or better:

<b>Required Courses</b>		<b>Units: 21</b>
KIN 115	Fitness Specialist Internship*	2
KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
KIN 127	Exercise Physiology	3
KIN 128	Fitness Testing and Exercise Prescription	3
KIN 131	Functional Anatomy of Movement	3
KIN 145	Theory and Analysis of Fitness Instruction	2
KIN 146	Training Principles for Special Populations	2

<b>Choose two courses from the list below:</b>		<b>Units: 2-3</b>
KINA 130	Fitness and Wellness Laboratory	1-2
KINA 134	Cardio Boot Camp	1
KINA 136	Pilates Mat I	1
KINA 158	Yoga I	1
KINA 230	Fitness and Wellness Laboratory II *	1
KINA 258	Yoga II*	1
DANC 114	Conditioning & Alignment for the Dancer	1
DANC 167	Latin Dance for Fitness	1

\*Prerequisite

Total: 23-24

## KINESIOLOGY/HEALTH, SAFETY AND WELLNESS Certificate of Achievement

### Description

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The **Certificate of Achievement in Health, Safety, and Wellness** prepares students for entry-level work in city recreation sport and youth programs. Students in the program learn nutrition essentials, explore health and wellness concepts, and evaluate personal strategies to manage stress and anxiety levels. Students also have the opportunity to fulfill the requirements for American Red Cross certifications in Standard First Aid, Cardiopulmonary Resuscitation (C.P.R.), and Automatic Defibrillation (A.E.D.) as a core element of achieving this certificate. The Health, Safety and Wellness Certificate of Achievement can be completed in one year.

To acquire the **Certificate of Achievement in Health, Safety, and Wellness**, it is necessary to complete the following courses:

<b>Required courses:</b>		<b>Units: 6</b>
KIN 122	Nutrition for Sport and Fitness	3
KIN 193	Standard First Aid and C.P.R.	3
<b>Select one of the following courses:</b>		<b>Units: 3</b>
KIN 196	Health: Fitness and Wellness	3
KIN 191	Health: Personal Issues	3
KIN 192	Health: Women's Personal Health	3
		<b>Total: 9</b>

## KINESIOLOGY/INTERCOLLEGIATE ATHLETIC COMPETITION Certificate of Achievement

### Description

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The **Certificate of Achievement in Intercollegiate Athletic Competition** is for student-athletes who successfully represent the College for two seasons of sport and complete at least three off-season intercollegiate training courses, or compete on an additional intercollegiate sport team. This certificate recognizes student-athletes for their commitment, athletic and academic achievements, and dedication in representing the College in their selected sport(s).

To acquire the **Certificate of Achievement in Intercollegiate Athletic Competition**, it is necessary to complete the following courses:

<b>Complete six units in the following intercollegiate courses:</b>		<b>Units: 6</b>
KINA 170	Women's Intercollegiate Basketball Team	1.5
KINA 171	Women's Intercollegiate Tennis Team	3
KINA 172	Women's Intercollegiate Volleyball Team	3
KINA 173	Women's Intercollegiate Softball Team	3
KINA 176	Women's Intercollegiate Soccer Team	3
KINA 180	Men's Intercollegiate Baseball Team	3
KINA 181	Men's Intercollegiate Basketball Team	1.5
KINA 185	Men's and Women's Intercollegiate Swim Team	3
KINA 188	Men's and/or Women's Intercollegiate Water Polo Team	3
KINA 189	Men's Intercollegiate Wrestling Team	3
KINA 190	Men's Intercollegiate Soccer Team	3
KINA 192	Women's Intercollegiate Sand Volleyball Team	3
<b>Complete 3 units in the following off-season intercollegiate courses or an additional 3 unit intercollegiate course from above:</b>		<b>Units: 3</b>
KINA 147	Off-Season Conditioning For Intercollegiate Sports	1
KINA 159	Cross Training for Intercollegiate Athletics	1

KINA 202	Intercollegiate Baseball II	1
KINA 203	Off Season Softball	1
KINA 206	Off Season Women's Intercollegiate Volleyball Training	1
KINA 211	Off Season Intercollegiate Tennis	1
KINA 151	Strength and Conditioning for Intercollegiate Athletics	1
KINA 276	Off-Season for Intercollegiate Soccer	1
KINA 270	Women's Intercollegiate Basketball Team II	1.5
KINA 281	Men's Intercollegiate Basketball Team II	1.5

Total: 9

## KINESIOLOGY/MAT PILATES INSTRUCTOR Certificate of Achievement

### Description

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The Mat Pilates Instructor Certificate of Achievement is designed to prepare students for employment as a professional to instruct both groups and individuals in Pilates mat exercises. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical, to pursue a job promoting core training, injury prevention, alignment, and proper mechanics of movement for each exercise.

Courses in Pilates mat instruction, anatomy, training special populations, and Pilates activity classes will prepare the student for responsibilities in the field. The program will also expose students to other areas such as fitness, health promotion, coaching, pre-allied health, and medical fields as Pilates is often used in physical therapy rehabilitation, injury prevention, and enhancing the performance of athletes.

To acquire the **Certificate of Achievement in Mat Pilates Instructor**, it is necessary to complete the following courses:

Required Courses	Units: 14	
KIN 131	Functional Anatomy of Movement	3
KIN 145	Theory and Analysis of Fitness Instruction	2
KIN 146	Training Principles for Special Populations	2
KIN 136	Pilates Mat Teaching: Foundations*	3
KINA 136	Pilates Mat I	1
KINA 236	Pilates Mat II*	1
KIN 115	Fitness Specialist Internship*	2

\*Prerequisite

Total: 14

## KINESIOLOGY/PEAK PERFORMANCE FOR SPORT Certificate of Achievement

### Description

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The **Certificate of Achievement in Peak Performance for Sport** is designed for students seeking employment in the sport, athletic, coaching, and fitness fields. Students study physiological, psychological and sociological principles to evaluate human performance for youth, high school, collegiate, and professional athletes and teams. Students learn the basic anatomical principles used to maximize performance, biomechanics, program design, training techniques, and the role of nutrition to increase energy and enhance performance. Students in the program use social scientific inquiry through descriptive and comparative investigation to evaluate the connection between cognitive strategies and performance in fitness and sport. This certificate can be completed in one year.

To acquire the **Certificate of Achievement in Peak Performance for Sport**, it is necessary to complete the following courses:

<b>Required courses:</b>	<b>Units: 9</b>
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KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
KIN 170	Sport and Exercise Psychology	3
<b>Choose one of the following courses:</b>		<b>Units: 3</b>
KIN 131	Functional Anatomy of Movement	3
KIN 188	Theory of Coaching	3
KIN 159	Leadership in Sport	3
<b>Choose one of the following courses:</b>		<b>Units: 1</b>
DANC 114	Conditioning & Alignment for the Dancer	1
KINA 139	Cross Training for Fitness	1
KINA 148	Strength Training	1
KINA 136	Pilates Mat I	1
KINA 158	Yoga I	1
		Total: 13

## KINESIOLOGY/SPORT LEADERSHIP Certificate of Achievement

### Description

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The Certificate of Achievement in Sport Leadership is designed for students seeking employment in athletic administration from youth through professional levels, and/or athletic administration in recreation, education, and city programs. Students study leadership, sociological, and psychological theories; motivation strategies; and the relationship between leadership and globalization, social and traditional media, moral values, ethics, Title IX, equality, gender, ethnic minorities, and the economy—including how each of these topics impacts sport and vice versa. Students learn about leadership styles and servant and transformational leadership theories, and focus on the importance of leadership within team and organizational environments. The curriculum has been designed to equip students with a theoretical and practical foundation to pursue a job in sport administration and/or to increase leadership knowledge in the coaching and fitness fields. It is possible to complete this certificate in one year.

To acquire the **Certificate of Achievement in Sport Leadership**, it is necessary to complete the following courses:

<b>Required courses:</b>		<b>Units: 15</b>
KIN 159	Leadership in Sport	3
KIN 170	Sport and Exercise Psychology	3
KIN 190	Women in Sports	3
KIN 195	Social Issues/Media in Sport	3
KIN 120	Sports Law and Ethics	3
<b>Choose one of the following courses:</b>		<b>Units: 3</b>
KIN 188	Theory of Coaching	3
KIN 110	Introduction to Fitness and Sport Management	3
		Total: 18

## KINESIOLOGY/SPORT STUDIES Certificate of Achievement

### Description

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The **Certificate of Achievement in Sport Studies** prepares students to address current issues in sport and sport leadership, and is intended for students seeking employment in youth sport organizations, educational institutions, athletic programs, and recreational organizations. Students completing this certificate use social scientific inquiry through descriptive and comparative investigation to analyze sociological theories and the history of sport, as well as the role sport plays in human

behavior, government, political decisions regarding sport, ethics, Title IX, gender, cultural organizations, and the human experience. This certificate can be completed in one year.

To acquire the **Certificate of Achievement in Sport Studies**, it is necessary to complete the following courses:

<b>Required courses:</b>		<b>Units: 12</b>
KIN 120	Sports Law and Ethics	3
KIN 159	Leadership in Sport	3
KIN 190	Women in Sports	3
KIN 195	Social Issues/Media in Sport	3
		<b>Total: 12</b>

## **KINESIOLOGY/SPORTS MEDICINE Associate of Science Degree**

### **Description**

The Associate of Science Degree is designed to give students interested in a career in sports medicine, athletic training or physical therapy an opportunity to develop, practice and implement fundamental skills in the prevention, treatment and rehabilitation of various athletic/orthopedic injuries and related medical conditions. Using a combination of dynamic classroom learning and clinical experience, this program will set a foundation that will aid in the pursuit of a multitude of allied healthcare professions. Completion of this degree will also prepare students for further study or to obtain employment as an entry-level rehabilitation/allied health paraprofessional. Earning this degree may facilitate the student's transfer to a CSU and/or professional program. Students must attain a grade of "C" or higher in each course for successful completion of the degree.

To acquire the **Associate of Science Degree in Kinesiology/Sports Medicine**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>		<b>Units: 30</b>
KIN 197	Prevention and Treatment of Athletic Injuries	3
KIN 297	Advanced Athletic Training*	3
KIN 290	Cooperative Work Experience/Internship for Athletic Training Related Fields*	4
KIN 193	Standard First Aid and C.P.R.	3
KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
PSY 101	Introductory Psychology	3
BIOL 125	Human Anatomy	4
BIOL 226	Human Physiology*	4

\*Prerequisite

Total: 30

## **KINESIOLOGY/STRENGTH AND PERFORMANCE COACH Certificate of Achievement**

### **Description**

The **Strength and Performance Coach Certificate of Achievement** is designed to prepare students for employment as a professional to enhance the performance of sport and tactical (police, fire, military) athletes. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical, to pursue a job promoting the physical conditioning of athletes. Strength and conditioning coaches also assist with the injury prevention and proper mechanics of athletes within their specific sport.

Courses in nutrition, exercise physiology, exercise testing and prescription, first aid, strength and conditioning biomechanics/anatomy, and injury prevention will prepare the student for responsibilities in the field of strength and conditioning. The

program will also expose students to other areas such as fitness, health promotion, coaching, pre-allied health, and medical fields.

To acquire the **Certificate of Achievement in Strength and Performance Coach**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 22</b>
KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
KIN 127	Exercise Physiology	3
KIN 128	Fitness Testing and Exercise Prescription	3
KIN 188	Theory of Coaching	3
OR		
KIN 159	Leadership in Sport	3
KIN 193	Standard First Aid and C.P.R.	3
OR		
KIN 197	Prevention and Treatment of Athletic Injuries	3
KIN 226	Advanced Training Principles for Sport and Tactical Athletes*	3
KIN 290	Cooperative Work Experience/Internship for Athletic Training Related Fields*	1-2

\*Prerequisite

Total: 22

## **KINESIOLOGY/YOGA TEACHING TRAINING CERTIFICATION Certificate of Achievement**

### **Description**

The Yoga Teacher Training Certificate Program prepares students for employment as a certified yoga instructor to lead both group classes and private individual sessions. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical, to pursue a job in gyms, recreational centers, colleges, after school programs, and private studios. Courses include yoga laboratories, anatomy, movement analysis, instructional theory, foundational and methodological aspects of yoga, asanas (poses), sequencing, delivery, body alignment, philosophy, and working with people who have special medical needs or injuries. Yoga instructors also implement a mind-body-spirit connection, providing a supportive and nurturing environment while being mindful of individualized needs to engage the physical, mental, and spiritual bodies. The program will enable students to become Yoga Alliance certified at the 200-hour level.

To acquire the **Certificate of Achievement in Yoga Teacher Training Certification**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 12</b>
KIN 145	Theory and Analysis of Fitness Instruction	2
KIN 146	Training Principles for Special Populations	2
KIN 058	Yoga Teacher Training I: Foundations*	3
KIN 059	Yoga Teacher Training II: Methodologies*	3
KINA 158	Yoga I	1
KINA 258	Yoga II*	1

\*Prerequisite

Total: 12

# LOGISTICS MANAGEMENT

## Associate of Science Degree

### Description

This program is designed to prepare students for employment as logistics planners, transportation analysts, inventory planners, and purchasing analysts. The program will allow the student to develop organizational skills which can lead to advancement in operations management, transportation, purchasing, materials management, and supply chain. The sequence of courses will provide the student the opportunity to acquire the knowledge and skills demanded of the modern logistics specialist. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Associate of Science Degree in Logistics Management**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>	<b>Units: 24-25</b>
BUSL 110      Legal Environment of Business	3
LOG 101      Supply Chain Management	3
LOG 105      Purchasing Management	3
LOG 110      Warehouse Management	3
LOG 115      Inventory Management	3
MGMT 101     Introduction to Business	3
CIT 101      Introduction to Computer Information Technology	3
OR	
LOG 130      Computerized Logistics	3
<b>Choose one of the following courses:</b>	
ACCT 100      Introduction to Accounting	3
OR	
ACCT 101      Financial Accounting	4
OR	
ACCT 101H     Financial Accounting Honors*	4
Required Subtotal 24 or 25 units	

\*Prerequisite

**In addition to the Required Courses, students will choose from one of the following specializations or select one course from each specialization.** **Units: 6-10**

**Transportation Specialization Courses - Total Units 34 or 35**

GIS 120      Introduction to Geographic Information Systems and Spatial Analysis	4
LOG 120      Transportation Management	3
LOG 125      Contract Management	3

**International Trade Specialization Courses - Total Unit 33 or 34**

MGMT 140     Introduction to International Business	3
MGMT 142     International Management	3
MGMT 143     Import and Export Business	3

**Operations Management Speialization - Total Units 30 or 31**

LOG 135      Quality Management Concepts	3
MGMT 150     Principles of Management	3

**Selecting one course frm each specialization - Total Units 33 - 35**

Total: 30-35

## LOGISTICS MANAGEMENT Certificate of Achievement

### Description

This certificate is designed to prepare students for entry-level employment in logistics, transportation, inventory management, purchasing and supply chain. The certificate will allow the student to develop organizational skills which can lead to advancement in operations management, transportation, purchasing, materials management, and related areas. The sequence of courses will provide the student the opportunity to acquire the knowledge and skills demanded of the modern logistics specialist. The sequence in which courses are taken may be modified to meet individual needs.

To acquire the **Certificate of Achievement in Logistics Management**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 12</b>
LOG 101          Supply Chain Management	3
LOG 105          Purchasing Management	3
LOG 110          Warehouse Management	3
LOG 115          Inventory Management	3

<b>Choose two of the following courses:</b>	<b>Units: 6</b>
LOG 120          Transportation Management	3
LOG 125          Contract Management	3
LOG 135          Quality Management Concepts	3
MGMT 101        Introduction to Business	3
MGMT 140        Introduction to International Business	3
MGMT 142        International Management	3
MGMT 143        Import and Export Business	3
MGMT 150        Principles of Management	3

Total: 18

## MASS COMMUNICATIONS/MASS MEDIA Associate of Science Degree

### Description

To acquire the **Associate of Science Degree in Mass Communications: Mass Media**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Required Courses</b>	<b>Units: 31</b>
ART 115          The Art of Film	3
JOUR 110        Digital Photojournalism I	3
JOUR 120        Communications Reporting and Writing	3
JOUR 147        Broadcast News	3
LIT 147          Cinema as Literature*	3
OR	
LIT 147H        Cinema as Literature Honors*	3
MSCM 103        Survey of Motion Picture, Radio, and Television	3
MSCM 128        Mass Media in Modern Society	3
MSCM 134        Documentary Film	3
RDIO 104        Radio Broadcasting	3
TV 135          Digital Filmmaking I: Introduction	3
JOUR 290        Cooperative Work Experience / Internship for Journalism Related Fields*	1-4
OR	
RDIO 290        Cooperative Work Experience/ Internship for Radio Related Fields*	1-4

\*Prerequisite

Total: 31

## MASS COMMUNICATIONS/MASS MEDIA Certificate of Achievement

### Description

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The Mass Communications: Mass Media Certificate is designed to provide a general technical background which will enable the student to make intelligent and realistic career decisions in mass communications; to provide a broad background which will afford the currently employed student an opportunity for upward mobility or career advancement; to provide a program to meet both the entry-level and skill upgrading needs of the local mass communications industry.

To acquire the **Certificate of Achievement in Mass Communications: Mass Media**, it is necessary to complete the following courses:

Required Courses		Units: 31
ART 115	The Art of Film	3
JOUR 110	Digital Photojournalism I	3
JOUR 120	Communications Reporting and Writing	3
JOUR 147	Broadcast News	3
LIT 147	Cinema as Literature*	3
OR		
LIT 147H	Cinema as Literature Honors*	3
MSCM 103	Survey of Motion Picture, Radio, and Television	3
MSCM 128	Mass Media in Modern Society	3
MSCM 134	Documentary Film	3
RDIO 104	Radio Broadcasting	3
TV 135	Digital Filmmaking I: Introduction	3
JOUR 290	Cooperative Work Experience / Internship for Journalism Related Fields*	1-4
OR		
RDIO 290	Cooperative Work Experience/ Internship for Radio Related Fields*	1-4

\*Prerequisite

Total: 31

## MASS COMMUNICATIONS/PRINT MEDIA SPECIALIZATION Associate of Science Degree

### Description

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To acquire the **Associate of Science Degree in Mass Communications: Print Media Specialization**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses		Units: 38
JOUR 110	Digital Photojournalism I	3
JOUR 120	Communications Reporting and Writing	3
JOUR 147	Broadcast News	3
JOUR 220	Advanced Reporting and Writing*	3
JOUR 230	Magazine Production*	3
JOUR 231	Digital Magazine Production	3
JOUR 241	Newspaper Production I*	4
JOUR 242	Digital Newspaper Production I*	4

JOUR 243	Newspaper Production II*	4
JOUR 244	Digital Newspaper Production II*	4
MSCM 128	Mass Media in Modern Society	3
JOUR 290	Cooperative Work Experience / Internship for Journalism Related Fields*	1-4
OR		
RDIO 290	Cooperative Work Experience/ Internship for Radio Related Fields*	1-4

\*Prerequisite

Total: 38

## MASS COMMUNICATIONS/PRINT MEDIA SPECIALIZATION Certificate of Achievement

### Description

The Mass Communications: Print Media Specialization Certificate is designed to provide a general technical background which will enable the student to make intelligent and realistic career decisions in mass communications; to provide a broad background which will afford the currently employed student an opportunity for upward mobility or career advancement; to provide a program to meet both the entry-level and skill upgrading needs of the local mass communications industry.

To acquire the **Certificate of Achievement in Mass Communications: Print Media Specialization**, it is necessary to complete the following courses:

Required Courses		Units: 27
JOUR 110	Digital Photojournalism I	3
JOUR 120	Communications Reporting and Writing	3
JOUR 220	Advanced Reporting and Writing*	3
JOUR 230	Magazine Production*	3
JOUR 231	Digital Magazine Production	3
JOUR 241	Newspaper Production I*	4
JOUR 243	Newspaper Production II*	4
MSCM 128	Mass Media in Modern Society	3
RDIO 290	Cooperative Work Experience/ Internship for Radio Related Fields*	1-4

\*Prerequisite

Total: 27



## MATHEMATICS Associate in Science for Transfer

### Description

The **Associate in Science in Mathematics for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Mathematics majors at a CSU campus that offers a Mathematics baccalaureate degree.

Mathematics is the language of the physical and technical sciences. As such, this Degree also partially satisfies the lower division requirements for a variety of baccalaureate degrees including Engineering, Physics, Computer Science and Chemistry.

**In addition to the courses listed below, the following requirements must be met for completion of the Associate in Science in Mathematics for Transfer:**



1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Mathematics major at the CSU where they seek transfer.

<b>Required Courses:</b>		<b>Units: 12</b>
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
MATH 250	Calculus III*	4

\*Prerequisite

**Please select one of the following options:** **Units: 8-9**

**Option 1: Complete both courses:**

MATH 260	Linear Algebra*	4
MATH 270	Differential Equations*	4

**Option 2: Complete one of the following:**

MATH 251	Linear Algebra and Differential Equations*	5
MATH 260	Linear Algebra*	4
MATH 270	Differential Equations*	4

**And one of the following:**

MATH 130	Statistics*	4
MATH 130H	Statistics Honors*	4
PHY 211	Physics for Scientists & Engineers - I*	4

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

Total: 20-21



## MUSIC

### Associate in Arts for Transfer

#### Description

The Associate in Arts in Music Transfer (AA-T) Degree is intended to meet the lower division requirements for music majors (or similar majors) at a CSU campus that offers a music baccalaureate degree. This degree prepares students to transfer to a Bachelor of Arts degree program, a capstone or terminal liberal arts degree with an emphasis in music. Students develop musical proficiency in theory, musicianship, and performance on their primary instrument or voice.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Music:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Music major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 17</b>
MUS 103	Music Theory I	3
MUS 104	Music Theory II*	3
MUS 105	Music Theory III*	3
MUS 106	Musicianship I	1
MUS 107	Musicianship II*	1
MUS 156	Intermediate Musicianship I*	1
MUS 181	Applied Music <sup>5</sup>	2
MUST 101	Introduction to Music Technology	3

<sup>5</sup>Applied Music must be taken 4 times, for a total of 2 units (.5 unit each semester)

**The following large ensemble must be taken 4 times, for a total of 4 units (1 unit each semester)** **Units: 4**

MUS 116	Diverse Instruments Ensemble*	1
OR		
MUS 120	Concert Choir *	1

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

*The Music Department also recommends the completion of the following classes in Piano and History, in preparation for transfer to a California State University.*

*History - Choose one - MUS 130 or MUS 131*

*Piano - Choose one - MUS 145, MUS 146, MUS 147, or MUS 148*

\*Prerequisite

Total: 21

## **MUSIC: COMPOSITION, PERFORMANCE, AND IMPROVISATION OF CONTEMPORARY MUSIC PRACTICES**

### **Associate of Arts Degree**

#### **Description**

The **Associate of Arts in Music: Composition, Performance, and Improvisation of Contemporary Music Practices** is a two-year program designed to prepare students for the continued study of music and/or future professional employment in the field of music.

Students entering the program with the intent of composing, performing and improvising contemporary music gain valuable experience and performance skills by performing in, and composing for, the College's various choirs and unique multi-

instrument ensembles. The various levels of study in vocal, instrumental, theory, musicianship, keyboard skills, music technology, and composition provide students with the skills necessary to excel in those areas when they complete the music program at Rio Hondo College.

To acquire the **Associate of Arts in Music: Composition, Performance, and Improvisation of Contemporary Music Practices**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education–Breadth (CSU GE) pattern, or Intersegmental General Education Transfer Curriculum (IGETC) pattern.

<b>Required Courses</b>		<b>Units: 22</b>
MUST 101	Introduction to Music Technology	3
MUS 103	Music Theory I	3
MUS 104	Music Theory II*	3
MUS 105	Music Theory III*	3
MUS 206	Music Theory IV*	3
MUS 106	Musicianship I	1
MUS 107	Musicianship II*	1
MUS 156	Musicianship III*	1
MUS 157	Musicianship IV*	1
MUS 145	Piano I	1
MUS 146	Piano II*	1
MUS 147	Piano III*	1
<b>Applied Music must be taken 4 times, for a total of 2 units (.5 units each semester)</b>		<b>Units: 2</b>
MUS 181	Applied Music*	2
<b>Choose a performance group from the following list. The selected course must be taken four times in four different semesters (4-8 units)</b>		<b>Units: 4-8</b>
MUS 116	Diverse Instruments Ensemble	1
MUS 216	Industrial Orchestra*	2
MUS 120	Concert Choir	1
MUS 234	Advanced Chamber Singers*	2
*Prerequisite		
<b>Choose one history course from the following list (3 units):</b>		<b>Units: 3</b>
MUS 130	Music History and Literature Before 1750	3
MUS 131	Music History and Literature after 1750	3
		Total: 31-35

## MUSIC AND INTEGRATED TECHNOLOGY

### Associate of Science Degree

#### Description

This Associate of Science degree is a 21st-century program designed to prepare students with entry-level music and technology skills needed to enter the professional workplace and/or pursue further study upon transfer to a baccalaureate degree-granting institution. This forward-thinking program will create pathways for success by generating opportunities for students to compose, arrange and produce music and artists in a variety of musical styles, with an emphasis in composing for video games, film scoring, sound design, electronic music, songwriting and arranging, studio recording, and live sound reinforcement. The program provides balanced coursework in music and music technology that teaches music to the technologist and technology to the musician.

To acquire the **Associate of Science Degree in Music and Integrated Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Required Courses****Units: 27****MUSIC CORE**

MUS 103	Music Theory I**	3
MUS 104	Music Theory II#	3
MUS 106	Musicianship I**	1
MUS 107	Musicianship II#	1
MUS 145	Piano I	1

**TECHNOLOGY CORE**

MUST 101	Introduction to Music Technology	3
MUST 105	Introduction to the Music Business	3
MUST 115	Songwriting and Arranging I	3
MUST 121	Electronic Music I	3
MUST 141	Recording Studio I	3
MUST 145	Live Sound Reinforcement I	3

\*\*Corequisite

#Corequisite and prerequisite

**Select one of the following Music History courses:****Units: 3****CONTEMPORARY MUSIC HISTORY**

MUST 151	History of Electronic Music	3
MUS 132	History of Rock and Roll	3
MUS 135	Music in Film	3

Total: 30

## MUSIC TECHNOLOGY/ADVANCED ELECTRONIC MUSIC Certificate of Achievement

**Description**

This certificate of achievement prepares students for work in the music industry and for further study (transfer) by composing and producing electronic music in both analog and digital formats. Students learn aspects of advanced synthesis techniques, advanced modulation, and linear and non-linear compositional processes. Emphasis is placed on workflow with a digital audio workstation (DAW) and modular synthesizers, as well as the tools and techniques needed to create contemporary electronic music in a variety of styles.

To acquire the **Certificate of Achievement in Advanced Electronic Music**, it is necessary to complete the following courses:

**Required Courses****Units: 18**

MUS 104	Music Theory II#	3
MUS 105	Music Theory III#	3
MUS 206	Music Theory IV#	3
MUS 107	Musicianship II#	1
MUS 156	Musicianship III#	1
MUS 157	Musicianship IV#	1
MUS 211	Composition Workshop I*	3
MUST 123	Electronic Music III*	3

#Corequisite and prerequisite

\*Prerequisite

Total: 18

## MUSIC TECHNOLOGY/ADVANCED SONGWRITING AND ARRANGING Certificate of Achievement

### Description

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This certificate is focused on intermediate and advanced approaches to songwriting and arranging. Through a course of study, students find their professional writing voice in order to create original, commercially-viable songs. The culmination of this certificate requires a professional portfolio as the final project.

To acquire the **Certificate of Achievement in Advanced Songwriting and Arranging**, it is necessary to complete the following courses:

Required Courses	Units: 17
MUS 211          Composition Workshop I*	3
MUS 105          Music Theory III*	3
MUS 156          Musicianship III#	1
MUS 206          Music Theory IV#	3
MUS 157          Musicianship IV#	1
MUST 141        Recording Studio I*	3
MUST 116        Songwriting and Arranging II*	3

\*Prerequisite

#Corequisite and prerequisite

Total: 17

## MUSIC TECHNOLOGY/ADVANCED SOUND DESIGN Certificate of Achievement

### Description

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This certificate of achievement is for students who are interested in learning intermediate and advanced elements of sound design. This course of study will focus on how to design, create, and program sound events and objects successfully in a surround environment in the service of various music and media industries (e.g., the music, television/film, and video game industries). Emphasis is placed on building technical skills and interpersonal skills required for entry-level work in various collaborative situations.

To acquire the **Certificate of Achievement in Advanced Sound Design**, it is necessary to complete the following courses:

Required Courses	Units: 13
MUS 103          Music Theory I**	3
MUS 106          Musicianship I**	1
MUST 122        Electronic Music II*	3
MUST 126        Sound Design II*	3
MUST 142        Recording Studio II*	3

\*\*Corequisite

\*Prerequisite

Total: 13

## MUSIC TECHNOLOGY/INTRODUCTORY ELECTRONIC MUSIC Certificate of Achievement

### Description

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This certificate of achievement prepares students for entry-level work in the music industry, or for further study through the study of composing and producing electronic music. Students will learn aspects of production, composition, synthesis, sampling, effects processing, and workflow within a digital audio workstation (DAW), as well as the tools and techniques needed to create contemporary electronic music in a variety of styles.

To acquire the **Certificate of Achievement in Introductory Electronic Music**, it is necessary to complete the following courses:

Required Courses	Units: 17
MUST 101      Introduction to Music Technology	3
MUST 105      Introduction to the Music Business	3
MUST 121      Electronic Music I*	3
MUST 122      Electronic Music II*	3
MUS 103        Music Theory I**	3
MUS 145        Piano I	1
MUS 106        Musicianship I**	1

\*Prerequisite

\*\*Corequisite

Total: 17

## MUSIC TECHNOLOGY/INTRODUCTORY SONGWRITING AND ARRANGING Certificate of Achievement

### Description

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This certificate of achievement prepares students for entry-level work in the music industry and introduces them to the process of songwriting and arranging. This course of study is designed for students who want to learn chord structure, form, rhythm, melody, harmony, and lyrics in a variety of contemporary and traditional styles. Students also record song demos and create lead sheets.

To acquire the **Certificate of Achievement in Introductory Songwriting and Arranging**, it is necessary to complete the following courses:

Required Courses	Units: 18
MUST 101      Introduction to Music Technology	3
MUST 105      Introduction to the Music Business	3
MUST 115      Songwriting and Arranging I*	3
MUS 103        Music Theory I**	3
MUS 104        Music Theory II#	3
MUS 106        Musicianship I**	1
MUS 107        Musicianship II#	1
MUS 145        Piano I	1

\*Prerequisite

\*\*Corequisite

#Corequisite and prerequisite

Total: 18

## MUSIC TECHNOLOGY/INTRODUCTORY SOUND DESIGN

### Certificate of Achievement

#### Description

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This certificate of achievement is for students interested in learning the basics of sound design. This course of study introduces the physics of sound and how to manipulate, modulate, and record sound successfully in the service of various music and media industries (e.g., the music, television/film, and video game industries). Emphasis is placed on building technical skills and interpersonal skills required for various collaborative situations.

To acquire the **Certificate of Achievement in Introductory Sound Design**, it is necessary to complete the following courses:

Required Courses		Units: 15
MUST 101	Introduction to Music Technology	3
MUST 105	Introduction to the Music Business	3
MUST 121	Electronic Music I*	3
MUST 141	Recording Studio I*	3
MUST 125	Sound Design I: Music, Media, and Game Audio*	3

\*Prerequisite

Total: 15

## MUSIC TECHNOLOGY/LIVE SOUND ENGINEER

### Certificate of Achievement

#### Description

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This certificate of achievement prepares students for entry-level work through the study of live sound engineering. The certificate comprises courses that will prepare the student to become a live sound engineer through a course of study that includes the sound reinforcement system, the physics of sound, psychoacoustics, and audio measurements. The students will also learn the design types and uses of microphones, equalizers, mixers, signal processing and effects, loudspeakers and crossovers, and power amplifiers.

To acquire the **Certificate of Achievement in Live Sound Engineer**, it is necessary to complete the following courses:

Required Courses		Units: 15
MUST 101	Introduction to Music Technology	3
MUST 105	Introduction to the Music Business	3
MUST 141	Recording Studio I*	3
MUST 145	Live Sound Reinforcement I*	3
MUST 146	Live Sound Reinforcement II*	3

\*Prerequisite

Total: 15

## MUSIC TECHNOLOGY/MUSIC COMPOSITION

### Certificate of Achievement

#### Description

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This certificate of achievement provides a focused course of study for students who want to learn the processes and techniques of composing. Emphasis is placed on preparing a music composition portfolio that can be used to prepare for further study at a baccalaureate-granting institution. This course of study also works in tandem with the Music and Integrated



Technology program to teach music composition to students for the purpose of training to work as composers in the music, television/film, video game, and other media industries.

To acquire the **Certificate of Achievement in Music Composition**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 18</b>
MUS 103	Music Theory I**	3
MUS 104	Music Theory II#	3
MUS 105	Music Theory III#	3
MUS 106	Musicianship I**	1
MUS 107	Musicianship II#	1
MUS 156	Musicianship III#	1
MUS 211	Composition Workshop I*	3
MUS 212	Composition Workshop II*	3

\*\* Corequisite

# Prerequisite/Corequisite

\* Prerequisite

Total: 18

## **MUSIC TECHNOLOGY/MUSIC PRODUCTION Certificate of Achievement**

### **Description**

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This certificate of achievement is for students who want to learn about the process of making successful recordings. Emphasis is placed on the interpersonal skills required to interact with other musicians, songwriters, and engineers; as well as the technical skills required to make professional decisions while leading a production team. A final production portfolio is part of the capstone class and a requirement for completion of the certificate.

To acquire the **Certificate of Achievement in Music Production**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 21</b>
MUST 101	Introduction to Music Technology	3
MUST 105	Introduction to the Music Business	3
MUS 103	Music Theory I**	3
MUS 106	Musicianship I**	1
MUST 121	Electronic Music I*	3
MUST 141	Recording Studio I*	3
MUST 142	Recording Studio II*	3
MUST 191B	Music and Integrated Technology Capstone - Production*	2

\*\* Corequisite

\* Prerequisite

Total: 21

## **MUSIC TECHNOLOGY/RECORDING ENGINEER Certificate of Achievement**

### **Description**

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This certificate of achievement teaches students proper and creative recording and audio editing techniques in a hands-on learning environment. This certificate will prepare students for entry-level work in the music and media industries.

To acquire the **Certificate of Achievement in Recording Engineer**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 18</b>
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MUST 101	Introduction to Music Technology	3
MUST 105	Introduction to the Music Business	3
MUS 103	Music Theory I**	3
MUS 106	Musicianship I**	1
MUST 141	Recording Studio I*	3
MUST 142	Recording Studio II*	3
MUST 191A	Music and Integrated Technology Capstone - Recording*	2

\*\* Corequisite  
\* Prerequisite

Total: 18

## NURSING PROGRAMS OVERVIEW

### DIVISION OF HEALTH SCIENCE AND NURSING

#### The Division of Health Science and Nursing

The Division of Health Science and Nursing offers two different types of programs: Associate Degree Nursing Program and Vocational Nursing Program. The division also offers three career certificates: Pre-Certification Nursing Assistant Course, Acute Care, and Home Health Aide. All three programs have exceptional pass rates on national exams and or state certification exams.

#### Associate Degree Nursing (ADN) Program

The ADN program is a two-year program designed to prepare students for employment as a registered nurse providing direct care to patients. The program is approved by the California State Board of Registered Nursing. Graduates receive an Associate in Science Degree of Nursing. Students who complete the program are qualified to take the examination leading to licensure as a Registered Nurse. In addition to the ADN program, we offer LVN to ADN Transition and a LVN-RN 30 Unit Option.

#### Associate Degree Nursing (LVN to ADN) Program

Licensed Vocational Nurses wishing to earn their Associate Degree in Nursing so they may qualify to take the examination for licensure as a Registered Nurse may enter the LVN to ADN Transition Program. This program is 2-1/2 semesters.

#### Non Degree Pathway to RN Licensure

Licensed Vocational Nurses wishing to qualify for licensure examination as a Registered Nurse but not obtain a degree may consider this 30-unit option.

#### The Vocational Nursing (VN) Program

The Vocational Nursing Program is a three-semester program following the completion of prerequisite courses. It is designed to prepare students for employment as a Vocational Nurse, giving care to patients in a variety of settings, such as acute hospitals, extended care facilities, home health care, surgical centers and medical offices. The program is approved by the California State Board of Vocational Nursing and Psychiatric Technicians. Students, who complete the curriculum and achieve the career certificate are qualified to apply for the examination leading to licensure as a Licensed Vocational Nurse. Students also have the option of obtaining an Associate of Science degree in Vocational Nursing.

#### Career Certificates Pre-Certification Nursing Assistant

This Career Certificate is designed for the student wishing to gain employment in the Acute Care, Long-Term Care or Assisted Living settings. Areas of emphasis will include taking care of geriatric patients in a long-term care setting utilizing skills in basic care, emergency care and communication. The student will gain a general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

#### Career Certificate for Acute Care Certified Nursing Assistant

This Career Certificate is designed for the student who already has their CNA Certificate wishing to gain employment in the Acute Care Hospital setting. Areas of emphasis will include taking care of patients in the acute care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on the specialized acute care areas of medical/surgical/orthopedics, pediatrics and obstetrics. Students will gain general core knowledge of entrylevel nursing skills through classroom instruction and hands on clinical time.

#### Career Certificate for Home Health Aide

This Career Certificate is designed for the student who already has their CNA Certificate wishing to gain employment in the home care setting. Areas of emphasis will include taking care of patients in the home care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on rehabilitative nursing care, and family relationships. Students will gain general core knowledge of entrylevel nursing skills through classroom instruction and hands on clinical time.

### **ADN Program Mission Statement**

The Associate Degree Nursing Program (ADN) is committed to preparing students for the professional role of the registered nurse at the entry level. In addition, the aim of the program is to prepare the nursing student for academic advancement.

### **ADN Program Philosophy**

The philosophy of the nursing program is in harmony with the mission, vision, and goals of Río Hondo College. The Associate Degree Nursing Program strives to be an exemplary nursing program that provides opportunities for students from diverse backgrounds, ethnicities and cultures, to be educated, responsible and caring community members. Graduates are prepared for licensure as registered nurses. The faculty recognizes the importance of also preparing students to practice in a variety of settings as health care delivery evolves. Teaching/learning strategies will embrace student-centered, competencybased instruction. In addition, the program has established quality improvement measures to assure that educational competencies have been met.

This nursing program embraces four major concepts to provide an organizational framework for the curriculum. The major concepts are: The Systems Developmental Stress Model, The Nursing Process, Erikson's Psycho-Social Theory of Human Development, and Quality Safety Education for Nurses.

The curriculum is designed to prepare the graduate to carry out their roles as a nurse: planner of care; provider of safe and skilled care; communicator; client teacher; and member of the profession. The faculty believes it is essential for the new graduate to be able to carry out evidence-based care with efficient use of resources. The graduate will provide continuity of care as the client moves from acute hospitalbased care to care in transitional units and other healthcare settings in the community.

The conceptual threads are interlaced throughout the program and are the essential core components and competencies. These competencies include: critical thinking, personal hygiene, patient protection and safety, pain management, human sexuality, client abuse, pharmacology, nutrition, patient advocacy, legal, social and ethical aspects of nursing, and nursing leadership and management.

Theoretical concepts will be presented from simple to complex, building on learning acquisition. The faculty believes that students need to apply standards of critical thinking and competency-based learning in order to formulate sound clinical judgments. Students are offered a number of approaches to learning, including technology and computer assisted instruction in order to apply theory to a variety of clinical situations. Also, opportunities for learning are provided to students through clinical assignments in acute care, community facilities, the health science skill center, online, technology, and simulation. Learning may be facilitated by referral to support services provided by the college such as financial aid, remediation, tutoring, psychological counseling, and health services. A student-centered approach to learning will be supported by contemporary approaches to education, which provide a variety of techniques to appeal to varied learning styles. Student learning outcomes and competencies will measure student achievements. Additionally, the faculty believes that curriculum should be developed and implemented based on Knowles's Theory of Adult Learning, which holds that the adult is self-directed and a lifelong learner. Learning progress is based on the student's mastery of course competencies. Mastery results in graduates that have achieved success in meeting program outcomes and are able to successfully pass the national licensing exam. These graduates are now prepared to transition into the health care system ready for job placement or advanced degrees.

### **ADN Program Outcomes**

At the completion of the program, the graduate will meet the following outcomes while carrying out the roles of the nurse:

1. **Planner of Care:** The student will be able to utilize the Systems Developmental Stress Model and the Nursing Process to plan for and provide cultural, gender, and age appropriate patient care to a team of patients utilizing appropriate resources in an effective manner.
2. **Provider of Safe Skilled Care:** The student will be able to provide safe care to a group of patients in collaboration with other healthcare team members while delegating appropriately.
3. **Communicator:** The student will be able to effectively communicate with the patient, family, healthcare providers, and faculty and document according to clinical site parameters.
4. **Educator:** The student will be able to identify educational needs, create and deliver a teaching plan specific to the needs of the patient and family.
5. **Member of the Profession:** The student will display professionalism while delivering care with caring and advocacy, mindful of ethical and legal obligations as a nurse.

## **ASSOCIATE DEGREE NURSING PROGRAM (RN) GENERIC**

### **A. ADMISSION REQUIREMENTS**

#### **1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION**

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.

- b. Students must meet the admission requirements for Río Hondo College.
  - c. Completion of all three science prerequisites (Human Anatomy, Human Physiology, and Microbiology) with an overall Science GPA of at least a 2.5 with no grade less than "C" for each course. The student is limited to one repeat in any of the science courses to improve the grade. All science courses must be completed within 7 years from application.
  - d. A cumulative college grade point average (GPA) of at least 2.5 for all college coursework taken.
  - e. Applicants must meet graduate proficiency requirements for math and reading either by completing the minimal required courses or demonstrate proficiency as evaluated by a Río Hondo College counselor.
  - f. Must complete English 101 College Composition and Research with a grade of C or higher.
  - g. Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.0 will no longer be accepted for students entering the ADN program after January 1, 2017.
2. **HEALTH REQUIREMENTS** – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to all applicants who are provisionally selected and those applicants who are alternates to the program.
  3. **PATIENT SAFETY AND BACKGROUND CHECKS** – Based on California Board of Registered Nursing, and clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student provisionally accepted. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if the background check meets clinical placement requirements. See the Dean of Health Science and Nursing with questions concerning this procedure. All students will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the students upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

## **B. ADMISSION PROCEDURE**

1. Obtain a Río Hondo Student ID number by applying to the college. Application for admission to the College shall be submitted to the Admissions Office.
2. Attend an information session: It is recommended that applicants to the Associate Degree Nursing Program attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing.
3. Applicants must complete and submit an Associate Degree Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the educational requirements are met.
4. Please check the Health Science and Nursing website for application deadlines.
5. Please include one copy of your high school diploma, GED, or official copy of your high school transcripts with your application.
6. Official transcripts for college coursework completed to date should be sent to Río Hondo College Admissions and Records Office. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to Río Hondo College Admissions and Records Office. The international evaluation of college coursework should be a detailed report.

## **C. ADMISSION SELECTION**

Acceptance to the Associate Degree Nursing Program will be based on selection criteria which includes the following:

1. Overall Cumulative GPA
2. Cumulative Science GPA
3. Other College Degrees
4. Current Health Care Work Experience
5. Current Medical/Nursing certificates/licenses
6. Life Experience
7. Other Language Spoken
8. ATI TEAS Results

Students will be selected on the basis of overall scores with those having the most points given priority. The student's overall cumulative

GPA for all college coursework taken, grades in the core science courses (anatomy, physiology, and microbiology), completion of college English, and the number of repetitions of science core courses will be used to determine the student's eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of 2.5 in the science core courses, with no grade less than "C" for each course, have no more than one repetition of any of the science core courses, and completed ENGL 101, with a grade of "C" or better, will be considered eligible for admission.

Students who are accepted to the program will be admitted to ADN 151 by permission of the Health Science and Nursing Division. This course is a prerequisite for admission to ADN first semester course (ADN 150) and is offered in the Spring semester and Summer session. Students who complete ADN 151 with a grade of "C" or better will continue the program in the Fall semester. Students failing the first course will not be eligible to continue the program and will need to reapply for admission.

**D. EXPENSES** – Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

**E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID** – Río Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation, and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens.

Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Río Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office.

**F. REQUIREMENT FOR LICENSURE** – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

**G. TRANSFER STUDENTS** – All transfer students who have taken coursework in nursing at another nursing program will be evaluated on an individual basis throughout the academic year. Previous nursing coursework must be no older than three years. The student must present a letter from the director of the former nursing program, stating the circumstances necessitating the transfer, and an evaluation of clinical safety. Students who are deemed unsafe in the clinical area are not eligible for transfer to the Río Hondo Associate Degree Nursing Program. Transfer students must demonstrate competence in clinical skills and pass a pharmacology math quiz with a score of 100% before admission to the program.

*Above information subject to change*

## ASSOCIATE DEGREE NURSING PROGRAM PSYCHIATRIC TECHNICIAN TO (RN)

### Determination of Eligibility for Admission to the ADN Program

Psychiatric Technicians wishing to become registered nurses follow the same admission procedures as those applicants for the associate degree nursing program. Psychiatric Technicians must also submit proof of their active California Psychiatric Technician license. PT-ADN students follow the same coursework of the ADN program as the Generic ADN students with the exception of receiving a waiver for ADN 252 and ADN 252L for prior knowledge and work as a Psychiatric Technician.

## ASSOCIATE DEGREE NURSING PROGRAM LVN TO ADN

### Determination of Eligibility for Admission to the LVN to ADN Program

#### A. ADMISSION REQUIREMENTS

##### 1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.

- b. Students must meet the admission requirements for Río Hondo College.
- c. Copy of an active California Vocational Nurse license.
- d. Completion of all three science prerequisites (Anatomy, Physiology, and Microbiology) with an overall science GPA of at least a 2.5 and no grade less than a C. The student is limited to one repeat in any of the science courses to improve the grade. All science courses must be completed within the last seven years.
- e. A cumulative grade point average (GPA) of at least 2.5 for all college coursework taken.
- f. Applicants must meet the graduate proficiency requirements for math and reading either by completing the minimal required coursework or demonstrate proficiency as evaluated by a Río Hondo College counselor prior to application to the program.
- g. Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.0 will no longer be accepted.

2. **HEALTH REQUIREMENTS** – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to all provisionally selected students and alternates.

## **B. ADMISSION PROCEDURE**

1. Application for admission to the College shall be submitted to the Admissions Office.
2. Applicants to the Associate Degree Nursing Program should attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing. Applicants must complete and submit an Associate Degree Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the educational requirements are met.
3. Please include one copy of your high school diploma, GED, or official copy of your high school transcripts with your application. If you graduated from high school and/ or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to Río Hondo College Admissions and Records Office. The international evaluation of college coursework should be a detailed report.

**C. ADMISSION PROCESS** – Acceptance to the Associate Degree LVN to ADN Nursing Program will be through the use of an admission's formula developed by the California Community College Chancellor's Office. The student's overall cumulative GPA for all college coursework taken, grades in the core science courses (anatomy, physiology, and microbiology), completion of college English, and the number of repetitions of science core courses will be used to determine the student's eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of at least 2.5 in the science core courses, with no grade less than "C" for each course, have no more than one repetition of any of the science core courses, and completed ENGL 101, with a grade of "C" or better, will be considered eligible for admission. ADN 075 – LVN Transition into the Associate Degree Program is a prerequisite for admission to ADN second year course (ADN 251) and is offered once a year only. Following admission, the student will be given a permit to register for this course. Following completion of this course, with a grade of "C" or better, the student will continue the program.

**D. EXPENSES** – Uniforms, books, health and safety screenings, and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

**E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID** – Río Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation, and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens. Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Río Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office.

**F. PATIENT SAFETY AND BACKGROUND CHECKS** – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for



determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting. The Board of Registered Nursing requires the applicant for licensure as a Registered Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

**G. REQUIREMENT FOR LICENSURE** – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

*Above information subject to change.*

## NON-DEGREE PATHWAY TO RN LICENSURE

### Determination of Eligibility for Admission to the LVN-RN Program

#### A. ADMISSION REQUIREMENTS

##### 1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Associate or Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- b. Students must meet the admission requirements for Río Hondo College.
- c. GPA of 2.5 or above in all science prerequisites (Physiology and Microbiology), with a grade "C" or better.
- d. Completion of Reading 043, ENGL 035, Math 030, or equivalent, with a grade "C" or better, or demonstration of proficiency as evaluated by a Río Hondo College counselor.
- e. Current CPR Card (BLS 8-hour class for health care providers, all ages, 1-person, 2-person rescuer) provided by the American Heart Association will be required after admission.
- f. Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.0 is no longer accepted.

2. **HEALTH REQUIREMENTS** – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to the provisionally accepted student.

#### B. ADMISSION PROCEDURE

1. Application for admission to the College shall be submitted to the Admissions Office for the purpose of obtaining a student ID.
2. It is strongly recommended that all students considering the the 30 Unit Option LVN to RN Program should attend a nursing information session to discuss the restrictions of this option and required prerequisites. Applicants must complete and submit an application to the Health Science and Nursing Division for admission consideration to the 30 unit Option LVN to RN Program.
3. Please include one copy of your high school diploma, GED, or official copy of your high school transcripts with your application. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to the Counseling Department. The international evaluation of college coursework should be a detailed report.



**C. ADMISSION SELECTION** – Acceptance to the 30 Unit Option will be through the use of an admission's formula developed by the California Community College Chancellor's Office. The student's overall cumulative GPA for all college coursework taken, grades in the core science courses (physiology and microbiology), and the number of repetitions of science core courses will be used to determine the student's eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of at least 2.5 in the science core courses, with no grade less than "C" for each course, have no more than one repetition of any of the science core courses, will be considered eligible for admission. ADN 075 – LVN Transition into the Associate Degree Program is a prerequisite for admission to ADN second year course (ADN 251) and is offered only once a year. Following admission, the student will be given a permit to register for this course. Following completion of this course, with a grade of "C" or better, the student will continue the program.

**D. EXPENSES** – Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

**E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID** – Río Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation, and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens. Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Río Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office.

**F. PATIENT SAFETY AND BACKGROUND CHECKS** – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/ or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting. The Board of Registered Nursing requires the applicant for licensure as a Registered Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

**G. REQUIREMENT FOR LICENSURE** – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

*Above information subject to change.*

## VOCATIONAL NURSING PROGRAM

The Vocational Nursing Program is a two and a half semester program following the completion of prerequisite courses. It is designed to prepare students for employment as a Vocational Nurse, giving care to patients in a variety of settings, such as acute hospitals, extended care facilities, home health care, surgical centers and medical offices. The program is accredited by the California State Board of Vocational Nursing and Psychiatric Technicians. Students, who complete the curriculum and achieve the career certificate are qualified to apply for the examination leading to licensure as a Licensed Vocational Nurse.

### Philosophy of the Vocational Nursing Program

The philosophy of the Vocational Nursing Program is in harmony with the stated philosophy of Río Hondo College. The faculty recognizes the individual worth and potential of all students. Students come from a variety of backgrounds, age, sex, culture, lives and educational experience. The application of theoretical concepts occurs in the Health Science and Nursing Skill Center and the community clinical facilities. College support services include: financial aid, remediation, tutoring, psychological counseling and health services.

The conceptual framework of the Vocational Nursing curriculum focuses on the Medical Model, utilizing all aspects of the nursing process. The faculty believes that nursing is concerned with the promotion of health and wellness, and strives to provide a maximum quality of life. The Nursing curriculum includes the current health care delivery system; safety; therapeutic communication; patient teaching; nutrition; pharmacology, cultural diversity, gerontology, human sexuality, mental health, growth and development; reproduction; legal and ethical issues, and professional development, as applied to the Vocational Nurse.

Nursing is a broad occupational field involving a multiplicity of functions performed by individuals, with varying degrees of preparation. It is essential that students be assisted to recognize and accept their responsibility and scope of practice.

The nursing faculty believes education is a continuing process and students should be provided with the attitudes, skills and knowledge to qualify for licensure as well as an upward mobility to the Vocational Nursing Program.

## DETERMINATION OF ELIGIBILITY FOR ADMISSION TO THE LVN PROGRAM

### A. ADMISSION REQUIREMENTS

#### 1. Educational requirements for program application

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Associate or Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- b. Students must meet the admission requirements for Río Hondo College.
- c. Completion of HS 60 or Anatomy with a grade of "C" or better.
- d. Completion of Psychology 101 with a grade of "C" or better.
- e. Completion of READ 043, ENGL 035, MATH 030, 030D or 033 or equivalent, with a grade of "C" or better, or demonstration of proficiency as evaluated by a Río Hondo College counselor.
- f. Current CPR Card (BLS 8-hour class for health care providers, all ages, 1-person, 2-person rescuer) provided by the American Heart Association will be required after admission.

2. **HEALTH REQUIREMENTS** – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Licensed Vocational Nurse. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to the student upon admission to the program.

### B. ADMISSION PROCEDURE

1. Application for admission to the College shall be submitted to the Admissions Office.
2. Applicants to the Vocational Nursing Program should attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing. Applicants must complete and submit a Vocational Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the educational requirements are met.
3. The Vocational Nursing Program has once a year entry.
4. The Counseling Department will evaluate academic records and complete an admissions card. Please bring one official copy of your high school transcripts, diploma or GED, and transcripts for college work completed to date to the Health Science and Nursing Division. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to the Health Science and Nursing Division. The international evaluation of college coursework should be a detailed report.
5. All applicants will be notified in writing regarding acceptance.

**C. ADMISSION PROCESS** – Acceptance to the Vocational Nursing Program is done using a random selection from all qualified applicants. This selection process is in accordance with the State Board of Vocational and Psychiatric Technicians and the California Community College Chancellor's Office. Only applicants meeting the requirements will be placed in the pool for selection. Each class selection will be completed using the above process. Student will be notified in writing by the Health Science and Nursing Division of permission to register.

**D.** Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

**E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL** – Río Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, books/supplies, transportation and room and board. Eligibility is limited to students who are U.S. citizens, permanent residents, or other eligible non-citizens. Additional eligibility requirements apply to each program and information may be obtained from the Financial Aid Office. There are numerous scholarships available to Río Hondo College nursing students. These scholarships are funded and sponsored by a variety of on and off campus resources, including community hospital partners of the nursing program. Scholarships are granted based on a variety of qualifications. Scholarship information is available in the College Scholarship Office located in the Financial Aid Office or in the Health Science and Nursing Division. Short-term loans are available in emergency situations for books and supplies through the Student Activities Office or the Scholarship Office.

**F. PATIENT SAFETY AND BACKGROUND CHECKS** – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

The Board of Vocational Nursing and Psychiatric Technicians requires the applicant for licensure as a Vocational Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

**G. REQUIREMENT FOR LICENSURE** – The Board of Vocational Nursing and Psychiatric Technicians requires a valid social security number for licensure. The Board of Vocational Nursing and Psychiatric Technicians should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Vocational Nursing and Psychiatric Technicians can be reached at 916-263-7800.

**H. TRANSFER STUDENTS** – All transfer students who have taken coursework in nursing at another nursing program will be evaluated on an individual basis. Previous nursing coursework must be no older than five years. The student must present a letter from the director of the former nursing program, stating the circumstances necessitating the transfer, and an evaluation of clinical safety. Students who are deemed unsafe in the clinical area are not eligible for transfer to the Río Hondo Vocational Nursing Program.

*Above information subject to change.*

## **NURSING GENERIC STUDENT (Option #1) Associate of Science Degree**

### **Description**

The Associate Degree Nursing Program is a two-year program designed to prepare students for employment as a Registered Nurse, providing direct care to patients. Graduates receive an **Associate of Science Degree in Nursing**. The program is approved by the California State Board of Registered Nursing. Students who complete the curriculum are qualified to take the examination leading to licensure as a Registered Nurse.

To acquire the **Associate of Science Degree in Nursing**, students must complete one of the following: Río Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

### **Prerequisites/Corequisites**

**Units: 20.5**

BIOL 125	Human Anatomy*	4
BIOL 226	Human Physiology*	4
BIOL 222	Microbiology*	5
ENGL 101	College Composition and Research*	3.5

Permission to register for the following courses are granted only to students admitted to the program. NOTE: These courses are only offered one time per year.

ADN 151	Clinical Nursing Concepts*	2
ADN 151L	Clinical Nursing Concepts Lab*	2

**Other Required Courses**

**Units: 14**

(The Health Science and Nursing Division recommends that students complete as many as possible before admission to the ADN Program)

CHEM 110	Chemistry for Allied Health Majors	5
<i>CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.</i>		
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors	3
SPCH 101	Public Speaking	3
OR		
SPCH 101H	Public Speaking Honors	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors	3

**COURSES REQUIRED AFTER PROGRAM ADMISSION**

**Units: 36**

**FIRST YEAR FALL SEMESTER**

ADN 150	Medical/Surgical Nursing I*	4
ADN 150L	Medical/Surgical Nursing I Lab*	4
ADN 154	Pharmacology*	2

**Required Subtotal - 10**

**FIRST YEAR - SPRING SEMESTER**

ADN 155	Nursing Process: Childbearing Family/Women's Health*	2
ADN 155L	Nursing Process: Childbearing Family/Women's Health Lab*	2
ADN 156	Nursing Process Applied to the Care of Children*	2
ADN 156L	Nursing Process Applied to the Care of Children Lab*	2

**Required Subtotal - 8**

**SECOND YEAR - FALL SEMESTER**

ADN 250	Advanced Pharmacology*	1
ADN 251	Medical /Surgical Nursing II*	2
ADN 251L	Medical/Surgical Nursing II Lab*	2.5
ADN 252	Psychiatric/ Mental Health Nursing*	2
ADN 252L	Psychiatric/Mental Health Nursing Lab*	1.5

**Required Subtotal - 9 units**

**SECOND YEAR - SPRING SEMESTER**

ADN 253	Medical/Surgical Nursing III*	2
ADN 253L	Medical/Surgical Nursing III Lab*	3
ADN 254	Leadership and Management in Nursing*	1.5
ADN 254L	Leadership and Management in Nursing Lab*	2.5

**Required Subtotal - 9**

\*The Board of Registered Nursing (BRN) requires these courses be completed to be eligible to take the RN Licensing Examination. All of these courses must be completed with a grade of "C" or better.

Total: 70.5

## NURSING/LVN TO ADN (Option #2) Associate of Science Degree

### Description

The Associate degree Nursing Program may be completed by the Licensed Vocational Nurse in one year. It is designed to prepare students for employment as a Registered Nurse, providing direct care to patients. Graduates receive an **Associate of Science Degree in Nursing**. The California State Board of Registered Nursing approves the program. Students who complete the curriculum are qualified to take the examination leading to licensure as a Registered Nurse.

To acquire the Associate of Science Degree in Nursing, students must complete one of the following: Río Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Prerequisites/Corequisites</b>		<b>Units: 16.5</b>
BIOL 125	Human Anatomy*	4
BIOL 226	Human Physiology*	4
BIOL 222	Microbiology*	5
ENGL 101	College Composition and Research*	3.5

<b>Other Required Courses</b>	<b>Units: 14</b>
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(The Health Science and Nursing Division recommends that students complete as many as possible before admission to the ADN Program.)

CHEM 110	Chemistry for Allied Health Majors	5
<i>CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.</i>		
SOC 101	Introduction to Sociology*	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SPCH 101	Public Speaking*	3
OR		
SPCH 101H	Public Speaking Honors*	3
PSY 101	Introductory Psychology*	3
OR		
PSY 101H	Introductory Psychology Honors*	3

<b>COURSES REQUIRED AFTER PROGRAM ADMISSION - BY PERMIT ONLY</b>	<b>Units: 20.5</b>
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ADN 075	LVN Transition into the Associate Degree Nursing Program*	2.5
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#### **FALL SEMESTER**

ADN 250	Advanced Pharmacology*	1
ADN 251	Medical /Surgical Nursing II*	2
ADN 251L	Medical/Surgical Nursing II Lab*	2.5
ADN 252	Psychiatric/ Mental Health Nursing*	2
ADN 252L	Psychiatric/Mental Health Nursing Lab*	1.5

**Required Subtotal - 9 units**

#### **SPRING SEMESTER**

ADN 253	Medical/Surgical Nursing III*	2
ADN 253L	Medical/Surgical Nursing III Lab*	3
ADN 254	Leadership and Management in Nursing*	1.5
ADN 254L	Leadership and Management in Nursing Lab*	2.5

**Required Subtotal - 9 units**

\*The Board of Registered Nursing (BRN) requires these courses be completed to be eligible to take the RN Licensing Examination. All of these courses must be completed with a grade of "C" or better.

Total: 51

## NURSING/PSYCHIATRIC TECHNICIAN TO RN (Option #3) Associate of Science Degree

### Description

The Associate degree Nursing Program is a two-year program designed to prepare students for employment as a Registered Nurse, providing direct care to patients. Graduates receive an **Associates of Science Degree in Nursing**. The program is approved by the California State Board of Registered Nursing. Students who complete the curriculum are qualified to take the examination leading to licensure as a Registered Nurse. Current California psychiatric technician license required.

To acquire the Associate of Science Degree in Nursing, students must complete one of the following: Río Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

### Prerequisites/Corequisites

**Units: 20.5**

BIOL 125	Human Anatomy*	4
BIOL 226	Human Physiology*	4
BIOL 222	Microbiology*	5
ENGL 101	College Composition and Research*	3.5

**The following courses are offered only one time per year. Permit to register is granted only to students admitted to the program. These courses may be waived by testing.**

ADN 151	Clinical Nursing Concepts*	2
ADN 151L	Clinical Nursing Concepts Lab*	2

### Other Required Courses

**Units: 14**

(The Health Science and Nursing Division recommends that students complete as many as possible before admission to the ADN Program.)

CHEM 110	Chemistry for Allied Health Majors*	5
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*CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.*

SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SPCH 101	Public Speaking	3
OR		
SPCH 101H	Public Speaking Honors*	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3

### COURSES REQUIRED AFTER PROGRAM ADMISSION

**Units: 36**

#### FIRST YEAR - FALL SEMESTER

ADN 150	Medical/Surgical Nursing I*	4
ADN 150L	Medical/Surgical Nursing I Lab*	4
ADN 154	Pharmacology*	2

**Required Subtotal - 10**

**FIRST YEAR - SPRING SEMESTER**

ADN 155	Nursing Process: Childbearing Family/Women's Health*	2
ADN 155L	Nursing Process: Childbearing Family/Women's Health Lab*	2
ADN 156	Nursing Process Applied to the Care of Children*	2
ADN 156L	Nursing Process Applied to the Care of Children Lab*	2

**Required Subtotal - 8****SECOND YEAR - FALL SEMESTER**

ADN 250	Advanced Pharmacology*	1
ADN 251	Medical /Surgical Nursing II*	2
ADN 251L	Medical/Surgical Nursing II Lab*	2.5

**The following courses may be waived with an active Psychiatric Technician License.**

ADN 252	Psychiatric/ Mental Health Nursing*	2
ADN 252L	Psychiatric/Mental Health Nursing Lab*	1.5

**Required Subtotal - 5.5 to 9.0****SECOND YEAR - SPRING SEMESTER**

ADN 253	Medical/Surgical Nursing III*	2
ADN 253L	Medical/Surgical Nursing III Lab*	3
ADN 254	Leadership and Management in Nursing*	1.5
ADN 254L	Leadership and Management in Nursing Lab*	2.5

**Required Subtotal - 9**

\*The Board of Registered Nursing (BRN) requires these courses be completed to be eligible to take the RN Licensing Examination. All of these courses must be completed with a grade of "C" or better.

Total: 70.5

## NURSING/ NON DEGREE PATHWAY TO RN LICENSURE 30 UNIT OPTION LVN TO RN

**Description**

This one-year program is for the applicant with a valid California Vocational Nurse license. The Vocational Nurse who completes thirty additional units beyond the LVN curriculum qualifies to take the licensing examination as a Registered Nurse. **This option does not lead to an Associate Nursing Degree.**

The program is designed to prepare students for employment as a Registered Nurse, providing direct care to patients. The student should be aware that they may not change their status as a 30 unit option RN with the Board of Registered Nursing at any time after licensure. Individuals who become licensed as Registered Nurses using this option may not be eligible for licensure in states other than California or for any advanced degrees. The program is accredited by the California Board of Registered Nursing.

**Prerequisites / Corequisites****Units: 9**

BIOL 226	Human Physiology*	4
BIOL 222	Microbiology*	5

*CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.*

\*Prerequisite

**Permission to register for the following course is granted only to students admitted to the program. Note: This course is offered in the Summer session only.**

**Units: 2.5**



ADN 075	LVN Transition into the Associate Degree Nursing Program*	2.5
<b>COURSES REQUIRED AFTER PROGRAM ADMISSION-BY PERMIT ONLY</b>		<b>Units: 18</b>

**FALL SEMESTER**

ADN 250	Advanced Pharmacology*	1
ADN 251	Medical /Surgical Nursing II*	2
ADN 251L	Medical/Surgical Nursing II Lab*	2.5
ADN 252	Psychiatric/ Mental Health Nursing*	2
ADN 252L	Psychiatric/Mental Health Nursing Lab*	1.5

**Required Subtotal - 9**

**SPRING SEMESTER**

ADN 253	Medical/Surgical Nursing III*	2
ADN 253L	Medical/Surgical Nursing III Lab*	3
ADN 254	Leadership and Management in Nursing*	1.5
ADN 254L	Leadership and Management in Nursing Lab*	2.5

**Required Subtotal - 9**

\*The Board of Registered Nursing (BRN) requires these courses be completed to be eligible to take the RN Licensing Examination. All of these courses must be completed with a grade of "C" or better.

Total: 29.5

## **NURSING/VOCATIONAL NURSING PROGRAM**

### **Associate of Science Degree**

**Description**

The Vocational Nursing Program is offered as an Associate of Science Degree or as a Certificate of Achievement. Students opting for the Associate of Science Degree should have all the General Education requirements completed prior to entering the Vocational Nursing Program.

The **Vocational Nursing Program** is a two and half semester program following completion of prerequisite courses. It is designed to prepare students for employment as staff nurses, giving care to patients in a variety of settings. such as extended care facilities, home health care, surgical centers and medical offices. The program is approved by the California State Board of Vocational Nursing and Psychiatric Technicians. Students who complete the curriculum and achieve the certificate of completion, are qualified to take the examination leading to licensure as a Licensed Vocational Nurse.

A 2.5 or better grade point average in all college work attempted is required for completion of the program and qualification to take the examination leading to licensure as a Licensed Vocational Nurse.

To acquire the **Associate of Science Degree in Vocational Nursing**, students must complete one of the following: Río Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

<b>Prerequisites</b>		<b>Units: 16.5</b>
HS 060	Health Science Core*	5
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
VN 061	Basic Fundamentals of Nursing*	3.5
VN 061L	Basic Fundamentals of Nursing Laboratory*	5

*(VN 061 and 061L are offered once per year by permit)*

<b>COURSES REQUIRED AFTER PROGRAM ADMISSION</b>		<b>Units: 35.5</b>
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**FALL SEMESTER**

VN 071L	Introduction to Medical-Surgical Nursing Lab*	3.5
VN 072L	Intermediate Medical-Surgical Nursing Lab*	3.5
VN 073	Basic Pharmacology*	2
VN 074	Nursing Care of Patients with Integumentary/Orthopedic Problems and Concepts of Gerontologic Nursing*	2.5
VN 075	Nursing Care of Patients with Endocrine Problems*	1
VN 076	Nursing Care of Patients with Renal, Urinary, and Gastrointestinal Problems*	3.5
VN 077	Nursing Care of Patients with Cardiovascular and Respiratory Problems*	3

**Required Subtotal - 19 units****SPRING SEMESTER**

VN 081L	Maternal and Pediatric Nursing Laboratory*	2.5
VN 082L	Advanced Medical/Surgical Laboratory*	3.5
VN 083	Applied Pharmacology*	2
VN 084	Maternal and Pediatric Nursing*	4
VN 085	Leadership & Supervision for the Vocational Nurse*	0.5
VN 086	Mental Health and Neurological Nursing Problems*	3
VN 087	Nursing Care of Patients with Cancer*	1

**Required Subtotal - 16.5 units**

See Nursing Program Overview appendix pages - for Philosophy, Admission Requirements, and Admission Procedures

Total: 52

## NURSING/VOCATIONAL NURSING PROGRAM

### Certificate of Achievement

**Description**

The Vocational Nursing Program is offered as an Associate of Science degree or as a Certificate of Achievement. Students opting for the associate degree should have all the General Education requirements completed prior to entering the Vocational Nursing Program.

The **Vocational Nursing Program** is a two-and-a-half semester program following completion of prerequisite courses. It is designed to prepare students for employment as staff nurses, giving care to patients in a variety of settings, such as extended care facilities, home health care, surgical centers and medical offices. The program is approved by the California Board of Vocational Nursing and Psychiatric Technicians (BVNPT). Students who complete the curriculum and achieve the certificate of completion are qualified to take the examination leading to licensure as a licensed vocational nurse.

A 2.5 or better grade point average in all college work attempted is required for completion of the program and qualification to take the examination leading to licensure as a licensed vocational nurse.

To acquire the **Certificate of Achievement in Vocational Nursing**, it is necessary to complete the following courses:

<b>Prerequisites</b>	<b>Units: 16.5</b>
HS 060	5
PSY 101	3
OR	
PSY 101H	3
VN 061	3.5
VN 061L	5

*(VN 061 and 061L are offered once per year by permit)*

\*Prerequisite

## COURSES REQUIRED AFTER PROGRAM ADMISSION

Units: 35.5

### FALL SEMESTER

VN 071L	Introduction to Medical-Surgical Nursing Lab*	3.5
VN 072L	Intermediate Medical-Surgical Nursing Lab*	3.5
VN 073	Basic Pharmacology*	2
VN 074	Nursing Care of Patients with Integumentary/Orthopedic Problems and Concepts of Gerontologic Nursing*	2.5
VN 075	Nursing Care of Patients with Endocrine Problems*	1
VN 076	Nursing Care of Patients with Renal, Urinary, and Gastrointestinal Problems*	3.5
VN 077	Nursing Care of Patients with Cardiovascular and Respiratory Problems*	3

**Required Subtotal - 19 units**

### SPRING SEMESTER

VN 081L	Maternal and Pediatric Nursing Laboratory*	2.5
VN 082L	Advanced Medical/Surgical Laboratory*	3.5
VN 083	Applied Pharmacology*	2
VN 084	Maternal and Pediatric Nursing*	4
VN 085	Leadership & Supervision for the Vocational Nurse*	0.5
VN 086	Mental Health and Neurological Nursing Problems*	3
VN 087	Nursing Care of Patients with Cancer*	1

**Required Subtotal - 16.5 units**

See Nursing Program Overview appendix pages for - Philosophy, Admission Requirements, and Admission Procedures

Total: 52

## NURSING\*/CERTIFIED NURSE ASSISTANT ACUTE CARE Career Certificate

### Description

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This Career Certificate is designed for the student who already has their CNA Certificate wishing to gain employment in the Acute Care Hospital setting. Areas of emphasis will include taking care of patients in the acute care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on the specialized acute care areas such as medical/surgical/orthopedics, pediatrics and obstetrics. Students will gain general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

#### Required Courses

Units: 3

HS 051	Certified Nurse Assistant Acute Care Training Course*	1.5
HS 051L	Certified Nurse Assistant Acute Care Training Course Lab*	1.5

\*Prerequisite

Total: 3

## NURSING\*/HOME HEALTH AIDE Career Certificate

### Description

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This Career Certificate is designed for the student who already has their CNA wishing to gain employment in the home care setting. Areas of emphasis will include taking care of patients in the home care setting utilizing skills in basic care, emergency

care, communication skills, patient assessment, observation and reporting, with additional emphasis on rehabilitative nursing care, and family relationships. Students will gain general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

<b>Required Courses</b>		<b>Units: 2.5</b>
HS 052	Home Health Aide Training Course*	1.5
HS 052L	Home Health Aide Training Course Lab*	1

\*Prerequisite

Total: 2.5

## NURSING\*/NURSE ASSISTANT PRE-CERTIFICATION TRAINING COURSE Career Certificate

### Description

This Career Certificate is designed for the student wishing to gain employment in the Acute Care, Long-Term Care or Assisted Living settings. Areas of emphasis will include taking care of geriatric patients in a long-term care setting utilizing skills in basic care, emergency care and communication. The student will gain a general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

<b>Required Courses</b>		<b>Units: 6.5</b>
HS 050	Nurse Assistant Pre-Certification Training Course	4
HS 050L	Nurse Assistant Pre-Certification Training Course Lab	2.5

Total: 6.5



## NUTRITION and DIETETICS Associate in Science for Transfer

### Description

The **Associate in Science in Nutrition and Dietetics for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Nutrition and Dietetics majors (or similar majors) at a CSU campus that offers a Nutrition and Dietetics baccalaureate degree. This degree is designed for students interested in an introduction to the field of Nutrition and Dietetics and for students looking to further their understanding of nutrition and health. These courses will provide students with a solid foundation in nutrition that will serve them either for transferring or in the workplace.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Nutrition and Dietetics:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Nutrition and Dietetics major at the CSU where they seek transfer.

<b>Required Courses</b>	<b>Units: 19</b>
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NUTR 110	Introduction to Nutrition Science	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
CHEM 130	General Chemistry I*	5
BIOL 222	Microbiology*	5
NUTR 120	Principles of Foods with Lab	3

**LIST A: Choose two courses (8-10 units)**

**Units: 8-10**

CHEM 140	General Chemistry II*	5
CHEM 230	Organic Chemistry I*	5
BIOL 125	Human Anatomy	4
BIOL 226	Human Physiology*	4
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
PSY 190	Statistics for the Behavioral Sciences*	4

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 27-29

## ORTHOPEDIC TECHNICIAN PROGRAM Certificate of Achievement

### Description

This program of study will provide students with in-depth knowledge and skills necessary to work as an orthopedic technician. Skills include immobilization, traction, casting, splitting, and assisting physicians with orthopedic care. The program of study requires all applicants to complete biology 125 with a grade of C or better, and passing of the reading and math assessment tests scoring above Reading 023 and English 035 prior to application. Following acceptance into the Orthopedic Technician program, the students will complete four core orthopedic courses. In total the program of study is 19 units. Upon completion of the program, students will receive a Certificate of Achievement and be eligible to take the national certification exam through the National Board of Certified Orthopedic Technicians (NBCOT).

To acquire the **Certificate of Achievement in the Orthopedic Technician Program**, it is necessary to complete the following courses:

**Required Courses**

**Units: 19**

BIOL 125	Human Anatomy	4
ORTH 040	Introduction to Orthopedic Technology*	4
ORTH 050	Orthopedic Technician Health Assessment*	3
ORTH 060	Orthopedic Technician Modalities*	4
ORTH 070	Orthopedic Technician Practicum*	4

\*Prerequisite

Total: 19



Associate Degree  
for Transfer  
*A Degree with a Guarantee.<sup>SM</sup>*

## PHILOSOPHY

### Associate in Arts for Transfer

#### Description

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The **Associate in Arts in Philosophy for Transfer (AA-T)** is intended to meet the lower division requirements for philosophy majors (or similar majors) at a CSU campus that offers a philosophy baccalaureate degree. The course of study provides a broad introduction to philosophy for those interested in building a foundation for an eventual bachelor's degree in philosophy, or for those seeking a structured exploration of philosophy for other reasons.

**In addition to the courses listed below, the following requirements must be met to complete the AA-T in Philosophy:**

1. Completion of a minimum of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA. Students should consult with a counselor for more information).
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern or the Intersegmental General Education Transfer Curriculum (IGETC) pattern

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted for the Philosophy major at the Cal State University to which they seek to transfer. Students planning on transferring to a CSU are strongly advised to take the PHIL 115 (Symbolic Logic) to prepare for further study.

**Required courses (3 units) Choose one course from the following list:**

**Units: 3**

PHIL 112	Introduction to Logic	3
OR		
PHIL 112H	Introduction to Logic Honors*	3
OR		
PHIL 115	Symbolic Logic	3

**Required courses (3 units) Choose one course from the following list:**

**Units: 3**

PHIL 101	Introduction to Philosophy	3
OR		
PHIL 101H	Introduction to Philosophy Honors*	3
OR		
PHIL 120	Introduction to Ethics	3

\*Prerequisite

**LIST A (3 units) Choose one course from the following list, or any course not already selected from above:**

**Units: 3**

PHIL 110	Critical Thinking	3
OR		
PHIL 110H	Critical Thinking Honors	3
PHIL 124	History of Philosophy: Ancient	3
PHIL 126	History of Philosophy: Modern	3

**LIST B (6 units) Choose two courses from the following list or any course not already selected from above:**

**Units: 6**

PHIL 128	Introduction to Political Philosophy (same as POLS 128)	3
OR		

PHIL 128H	Introduction to Political Philosophy Honors (same as POLS 128H)	3
OR		
POLS 128	Introduction to Political Philosophy (same as PHIL 128)	3
OR		
POLS 128H	Introduction to Political Philosophy Honors (same as PHIL 128H)	3
PHIL 140	Philosophy of Religion	3

**LIST C (3 units) Choose one course from the following list or any course not already selected from above: Units: 3**

PHIL 135	Philosophy of Social Justice	3
PHIL 122	Philosophical Perspectives on Death & Dying	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

Total: 18

## PHOTOGRAPHY

### Associate of Arts Degree

#### Description

The Associate of Arts in Photography provides students with a foundational knowledge of important conceptual and technical aspects of fine art photography with the goal of preparing students to transfer to a four-year university. The courses in this degree emphasize photography as a means of communication and personal expression, with an emphasis on cultural significance and visual literacy.

Students planning to prepare for a four-year degree in photography should consult the lower division requirements of the university to which they plan to transfer.

To acquire the **Associate of Arts in Photography**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education–Breadth (CSU GE) pattern, or Intersegmental General Education Transfer Curriculum (IGETC) pattern.

<b>Required Courses</b>		<b>Units: 30</b>
ART 105	Survey of Western Art: Prehistory through the Middle Ages	3
OR		
ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors*	3
ART 106	Survey of Western Art: Renaissance to Contemporary	3
OR		
ART 106H	Survey of Western Art: Renaissance to Contemporary Honors*	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 130	Freehand Drawing I	3
GDSN 178	Digital Imaging Design	3
PHTO 110	Introduction to Digital Photography	3
PHTO 130	Beginning Photography	3
PHTO 111	Intermediate Digital Photography *	3
OR		
PHTO 131	Intermediate Photography *	3
PHTO 140	Introduction to Lighting	3

\*Prerequisite

Total: 30





Associate Degree  
for Transfer  
*A Degree with a Guarantee.<sup>SM</sup>*

## PHYSICS Associate Degree for Transfer

### Description

The **Associate in Science in Physics for Transfer (AS-T) Degree** is intended to meet the lower division requirements for Physics and Physics Education majors at a CSU campus that offers a Physics baccalaureate degree.

Physics will prepare those students interested in laying a foundation for further study and for a Bachelor's Degree in Physics and Physics Education. Since physics is the most basic of sciences, this degree will also satisfy the lower division requirements for a variety of baccalaureate degrees including, Engineering, Chemistry, Mathematics, and Computer Science.

**In addition to the courses listed below, the following requirements must be met for completion of the AS-T Degree in Physics:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Physics major at the CSU where they seek transfer.

### Required Courses

**Units: 24**

PHY 211	Physics for Scientists & Engineers - I*	4
PHY 212	Physics for Scientists & Engineers - II*	4
PHY 213	Physics for Scientists & Engineers - III*	4
MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
MATH 250	Calculus III*	4

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 24

## PHYSICS - UC TRANSFER PATHWAY Associate in Science Degree

### Description

The **Associate in Science in Physics for UC Transfer Degree** is intended for Rio Hondo College students planning to transfer to the University of California (UC) system as physics majors. Along with completing the degree requirements, students must comply with the following in order to be guaranteed admission\* to a UC campus participating in the Transfer Admission Guarantee (TAG) program:

1. Complete all of the physics major preparation coursework as outlined in this degree with a "C" grade or better in each course.
2. Complete the Intersegmental General Education Transfer Curriculum (IGETC) requirements with the deferment of two courses in Area 3 (Arts and Humanities) and two courses in Area 4 (Social and Behavioral Sciences) of the IGETC. These deferred courses are to be completed at the UC after transfer.
3. Complete a TAG application to a participating UC campus by the deadline set by the UC system.
4. Complete the individual TAG requirements for said UC Campus by the deadlines set by the UC system.
5. Maintain or exceed the GPA requirements as outlined in the TAG agreement the student has made at said UC campus for their completed and remaining coursework before transfer.\*\*
6. Complete their application for admission to said UC campus by the deadline set by the UC system.

Students are highly encouraged to work with a Rio Hondo College STEM Counselor for assistance in completion of this degree.

\*Please note that receiving this degree alone does not guarantee admission to the UC system. A student may submit a TAG application to only one UC campus.

\*\*A student may still be awarded this degree by meeting the local GPA requirements at Rio Hondo College.

**Required Physics Courses** **Units: 12**

PHY 211	Physics for Scientists & Engineers - I*	4
PHY 212	Physics for Scientists & Engineers - II*	4
PHY 213	Physics for Scientists & Engineers - III*	4

**Required Chemistry Courses** **Units: 10**

CHEM 130	General Chemistry I*	5
CHEM 140	General Chemistry II*	5

**Required Mathematics Courses** **Units: 12**

MATH 190	Calculus I*	4
OR		
MATH 190H	Calculus I Honors*	4
MATH 191	Calculus II*	4
MATH 250	Calculus III*	4

**In addition to the required mathematics courses above, please choose one of the following options:** **Units: 5-8**

MATH 251	Linear Algebra and Differential Equations*	5
OR		
MATH 260	Linear Algebra*	4
AND		
MATH 270	Differential Equations*	4

\*Prerequisite

Total: 39-42

## POLICE ACADEMY MODULE I Certificate of Achievement

### Description

The Police Officer Training Certificate of Achievement is a program that is designed to prepare students to become entry-level police officers in local and state law enforcement agencies in California. This training course includes 42 learning domains, which includes instruction in leadership, professionalism and ethics, the criminal justice system, policing in the community, introduction to criminal law, laws of arrest, search and seizure, presentation of evidence, investigative report writing, vehicle operations, use of force, traffic enforcement, crime scenes, evidence, forensics, custody, arrest methods, First Aid/CPR, firearms, chemical agents, information systems, crimes against the justice system, cultural diversity/discrimination, and procedural justice. This course also meets the certification requirements of the Commission on Peace Officer Standards and Training (POST).

To acquire the **Certificate of Achievement in Police Academy Module I**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 21.5</b>
PAC 075D	Basic Course - Module I (Ext)*	21.5
OR		
PAC 075G	Basic Academy Intensive Modular I*	21.5

\*Prerequisite

Total: 21.5

## **POLICE ACADEMY/BASIC POLICE ACADEMY Certificate of Achievement**

### **Description**

The Rio Hondo Police Academy is a certificate program which is designed to prepare students to become entry-level police officers in local and state law enforcement agencies in California. This training course includes 42 learning domains, which includes instruction in leadership, professionalism and ethics, the criminal justice system, policing in the community, introduction to criminal law, laws of arrest, search and seizure, presentation of evidence, investigative report writing, vehicle operations, use of force, traffic enforcement, crime scenes, evidence, forensics, custody, arrest methods, First Aid/CPR, firearms, chemical agents, information systems, crimes against the justice system, cultural diversity/discrimination, and procedural justice. This course also meets the certification requirements of the Commission on Peace Officer Standards and Training (POST).

To acquire the **Certificate of Achievement in Basic Police Academy**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 37</b>
PAC 075B	Basic Course-Module III (Ext)*	7
OR		
PAC 075E	Basic Academy Intensive Modular III*	7
AND		
PAC 075C	Basic Course-Module II (Ext)*	8.5
OR		
PAC 075F	Basic Academy Intensive Modular II*	8.5
AND		
PAC 075D	Basic Course - Module I (Ext)*	21.5
OR		
PAC 075G	Basic Academy Intensive Modular I*	21.5

\*Prerequisite

Total: 37

## **POLICE ACADEMY/BASIC POLICE TRAINING (Open to all students) Career Certificate**

### **Description**

Several programs at Rio Hondo College are certified by the Commission of Peace Officer Standards and Training (POST). There are certain minimum physical requirements for peace officers as well as requirements of good moral character. Students may obtain more specific information about these requirements from the Administration of Justice staff.

At the Administration of Justice Regional Training Center, a modern and complete law enforcement training facility is maintained. The center is equipped to train in the use of firearms, obstacle course for physical training, and weight training apparatus and driver training exercises. The facility is equipped to train in other areas related to the field of law enforcement, security and corrections. If you are interested in attending the Rio Hondo Police Academy, there are information meetings being held on a monthly basis. Please call at (562) 463-7756.

Students who have previously earned a Basic POST Certificate or who are transferring to Rio Hondo College from another college as Administration of Justice majors must meet the college transfer requirements and complete at least six units of Administration of Justice courses at Rio Hondo College in addition to regular required courses to be eligible for graduation.

<b>Required Courses</b>		<b>Units: 37-46</b>
PAC 040	Basic Police Recruit Class*	46
OR		
PAC 075B	Basic Course-Module III (Ext)*	7
AND		
PAC 075C	Basic Course-Module II (Ext)*	8.5
AND		
PAC 075D	Basic Course - Module I (Ext)*	21.5

\*Prerequisite

Total: 37-46



## **POLITICAL SCIENCE**

### **Associate in Arts for Transfer**

#### **Description**

The **Associate in Arts in Political Science for Transfer Degree** is intended to meet the lower division requirements for Political Science majors (or similar majors) at a CSU campus that offers a Political Science baccalaureate degree.

This degree will introduce students to the broad discipline of political science. It involves the study of political structures, processes and social conditions as they relate to political situations, policy formulation approaches, and intergovernmental relations. This program is particularly relevant for students interested in pursuing a Bachelor's Degree in Political Science from a California State University, or for those seeking a structured examination into political systems.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Political Science:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Political Science major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 3</b>
POLS 110	Government of the United States	3
OR		
POLS 110H	Government of the United States Honors*	3

**Choose at least nine units from the following list:** **Units: 9-10**

POLS 128	Introduction to Political Philosophy (same as PHIL 128)	3
OR		
PHIL 128	Introduction to Political Philosophy (same as POLS 128)	3

OR			
POLS 128H	Introduction to Political Philosophy Honors (same as PHIL 128H)*		3
OR			
PHIL 128H	Introduction to Political Philosophy Honors (same as POLS 128H)*		3
POLS 130	Comparative Government		3
POLS 140	International Relations		3
MATH 130	Statistics*		4
OR			
MATH 130H	Statistics Honors*		4
OR			
PSY 190	Statistics for the Behavioral Sciences*		4

**Choose six units from the following list:**

**Units: 6**

CHST 150	Chicana/o/x Politics		3
ECON 101	Principles of Macroeconomics*		3
OR			
ECON 101H	Principles of Macroeconomics Honors*		3
ECON 102	Principles of Microeconomics*		3
OR			
ECON 102H	Principles of Microeconomics Honors*		3
HIST 143	History of the United States to 1877		3
OR			
HIST 143H	History of the United States to 1877 Honors*		3
HIST 144	History of the United States Since 1865		3
OR			
HIST 144H	History of the United States Since 1865 Honors*		3
HIST 156	Black American Experience to 1865		3
HIST 157	Black American Experience Since 1865		3
HIST 158	US Comparative History of American Indians and Black Americans		3
HIST 159	US Comparative History of Mexican and Asian Americans and Women		3
OR			
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors*		3
HIST 170	Women in American History		3
POLS 125	Law and Democracy		3
POLS 135	International Political Economy (same as ECON 135)		3
OR			
ECON 135	International Political Economy		3
POLS 150	Latinx Politics		3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 18-19



Associate Degree  
for Transfer  
*A Degree with a Guarantee.<sup>SM</sup>*

## PSYCHOLOGY

### Associate in Arts for Transfer

#### Description

The **Associate in Arts in Psychology for Transfer (AA-T) Degree** is intended to meet the lower division requirements for Psychology majors (or similar majors) at a CSU campus that offers a Psychology baccalaureate degree.

This degree is designed for students interested in an introduction to the field of psychology and for students looking to further their understanding of the biological, psychological and environmental influences that guide human behavior. These courses will provide students with a solid foundation in psychology that will serve them for either transferring or in the workplace.

**In addition to the courses listed below, the following requirements must be met for completion of the Associate in Arts in Psychology for Transfer Degree:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Psychology major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 9</b>
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
PSY 200	Research Methods in Psychology*	3
PSY 210	Biological Psychology*	3
OR		
PSY 210H	Biological Psychology Honors*	3
<b>Choose one statistics course</b>		<b>Units: 4</b>
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4
<b>LIST B: Choose one course from the following list:</b>		<b>Units: 3</b>
PHIL 110	Critical Thinking*	3
PSY 112	Lifespan Development	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
<b>LIST C: Choose one course from the following or any course not already selected above from List B:</b>		<b>Units: 3</b>
PHIL 101	Introduction to Philosophy	3

OR		
PHIL 101H	Introduction to Philosophy Honors*	3
PSY 114	Introduction to Abnormal Psychology	3
PSY 180	Positive Psychology	3
SOC 102	Major Social Problems	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 19



**SOCIAL JUSTICE STUDIES**  
**Associate in Arts for Transfer**

**Description**

The **Associate in Arts in Social Justice Studies for Transfer (AA-T) Degree** is intended to meet the lower division requirements for various social science majors (or similar majors) at a CSU campus that offers a Social Justice baccalaureate degree. The Social Justice Studies degree is an interdisciplinary degree that engages students in examining identity issues such as gender, race, class, ethnicity, and nationality as they intersect with the social justice issues of racism, sexism, classism, terrorism and other oppressive structures within society. This degree is designed to appeal to students interested in learning about the experiences of marginalized groups, as well as those going into majors such as sociology, history, political science, women’s studies, and race and ethnic studies.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Social Justice Studies:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of “C” or better in each course or a “P” if the course was taken on a Pass/No Pass basis and the “P” is equal to a “C” or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department for the courses accepted into the various majors that fall under the umbrella of "Social Justice Studies" at the CSU where they seek transfer.

**Required Courses**

**Units: 9**

SOC 102	Major Social Problems	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3
OR		
EGSS 110	Introduction to Ethnic Studies	3
SOC 120	She, He, They: Intersections of Gender	3
OR		
EGSS 120	Introduction to Women's Studies	3
OR		
EGSS 130	Introduction to LGBTQ+ Studies	3



**Choose 1 course from the following list:****Units: 3**

HIST 122	History of Mexico	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 170	Women in American History	3

**Choose 1 course from the following list:****Units: 3**

CHST 146	The Mexican American in the History of the United States	3
LIT 117	Mexican Literature in Translation	3
OR		
LIT 117H	Mexican Literature in Translation Honors*	3
LIT 130	Women and Literature*	3
OR		
LIT 130H	Women and Literature Honors*	3
LIT 149	Introduction to Chicana/o/x Literature	3
OR		
LIT 149H	Introduction to Chicana/o/x Literature Honors*	3

\*Prerequisite

**Choose 1 course from the following list:****Units: 3**

ANTH 110	Gender and Sexuality	3
CHST 101	Introduction to Chicana/o/x Studies	3
CHST 148	La Chicana: Mexican-American Women in Contemporary Society	3
OR		
CHST 148H	La Chicana: Mexican-American Women in Contemporary Society Honors*	3
CHST 150	Chicana/o/x Politics	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3
OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors*	3
HUM 130	Contemporary Mexican-American Culture	3
PHIL 101	Introduction to Philosophy	3
OR		
PHIL 101H	Introduction to Philosophy Honors*	3
PHIL 135	Philosophy of Social Justice	3
POLS 150	Latinx Politics	3
SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3

**CSU GE or IGETC Pattern (Units will vary)****Transferable Electives as needed to reach 60 transferable units****DEGREE TOTAL 60 units**

Total: 18



## SOCIAL JUSTICE STUDIES WITH AN EMPHASIS IN LGBTQ STUDIES

### Associate in Arts for Transfer

#### Description

The **Associate in Arts in Social Justice Studies with an Emphasis in LGBTQ Studies for Transfer (AA-T)** is intended to meet the lower division requirements for social justice majors (or similar majors) at a California State University (CSU) campus that offers a social justice studies baccalaureate degree.

This degree is designed to give foundational knowledge in the field of social justice for students looking to transfer, or for those who want a greater understanding of social justice among particular populations, and specifically the LGBTQ+ community.

**In addition to the courses listed below, the following requirements must be met for completion of the Associate in Arts in Social Justice Studies with an Emphasis in LGBTQ Studies for Transfer Degree:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the units in the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis.
4. Certified completion of the California State University General Education- Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the various majors that fall under the umbrella of "social justice" at the CSU where they seek transfer.

**Required Course** **Units: 3**

EGSS 130	Introduction to LGBTQ+ Studies	3
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**Required Course: Choose ONE of the following** **Units: 3**

EGSS 110	Introduction to Ethnic Studies	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3

**Required Course: Choose a course not already selected from the above list OR ONE course from the following:** **Units: 3**

EGSS 120	Introduction to Women's Studies	3
SOC 102	Major Social Problems	3
SOC 105	Introduction to Human Sexuality	3
SOC 120	She, He, They: Intersections of Gender	3

**Select three courses from at least two of the following areas. In Area 3, courses can be selected only if not already used toward required courses above. Only ONE course from Area 4 may be used.** **Units: 9-10**

**Area 1: History or Government**

HIST 122	History of Mexico	3
HIST 131	History of the North American Indian	3
HIST 156	Black American Experience to 1865	3
HIST 157	Black American Experience Since 1865	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 159	US Comparative History of Mexican and Asian Americans and Women	3

OR		
HIST 159H	US Comparative History of Mexican and Asian Americans and Women Honors *	3
HIST 170	Women in American History	3

**Area 2: Arts and Humanities**

ART 104	Art of the Ancient Americas	3
ART 107	The Art of Asia	3
ART 108	The Art of Mexico	3
ART 109	History of American Art	3
CHST 146	The Mexican American in the History of the United States	3
HUM 125	Introduction to Mexican Culture	3
OR		
HUM 125H	Introduction to Mexican Culture Honors*	3
HUM 130	Contemporary Mexican-American Culture	3
HUM 140	Introduction to Asian Cultures	3
LIT 117	Mexican Literature in Translation	3
OR		
LIT 117H	Mexican Literature in Translation Honors*	3
LIT 130	Women and Literature	3
OR		
LIT 130H	Women and Literature Honors*	3
LIT 144A	World Literature: Antiquity through the 16th Century*	3
OR		
LIT 144AH	World Literature: Antiquity through the 16th Century Honors*	3
LIT 144B	World Literature: 16th Century to the Present*	3
OR		
LIT 144BH	World Literature: 16th Century to the Present Honors*	3
LIT 149	Introduction to Chicana/o/x Literature*	3
OR		
LIT 149H	Introduction to Chicana/o/x Literature Honors*	3
MUS 129	Music in Latin American Culture	3
MUS 136	History of Jazz	3
MUST 152	History of Hip Hop	3

**Area 3: Social Science**

ANTH 102	Introduction to Cultural Anthropology	3
OR		
ANTH 102H	Introduction to Cultural Anthropology Honors*	3
ANTH 104	Introduction to Language and Culture	3
ANTH 110	Gender and Sexuality	3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural	3
CHST 101	Introduction to Chicana/o/x Studies	3
CHST 146	The Mexican American in the History of the United States	3
CHST 148	La Chicana: Mexican-American Women in Contemporary Society	3
OR		
CHST 148H	La Chicana: Mexican-American Women in Contemporary Society Honors*	3
CHST 150	Chicana/o/x Politics	3
GEOG 102	Introduction to Cultural Geography	3
POLS 150	Latinx Politics	3
SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
SPCH 150	Intercultural Communication	3

**Area 4: Quantitative Reasoning and Research Methods**

MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
PSY 190	Statistics for the Behavioral Sciences*	4
PSY 200	Research Methods in Psychology*	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 18-19

## **SOCIAL SERVICES ASSISTANT Associate of Science Degree**

### **Description**

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The Social Services Assistant Associate of Science degree provides a foundation for students interested in the fields of social services, human services, community outreach, and related areas. The degree also offers a basis for students interested in paraprofessional jobs in social service fields.

To acquire the **Social Services Assistant Associate of Science Degree**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

### **Required Courses**

**Units: 15-16**

HUSR 111	Human Services in Contemporary Society	3
HUSR 124	Introduction to Case Management and Documentation	3
HUSR 130	Essential Counseling Skills	3
HUSR 199A	Seminar in Human Services *	1
AND		
HUSR 199B	Fieldwork in Human Services *	2-3
SOC 102	Major Social Problems	3

### **Select ONE of the following courses:**

**Units: 3**

AJ 101	Introduction to Administration of Justice	3
AJ 250	Contemporary Issues in the Criminal Justice System	3
CD 106	Child Growth and Development	3
CD 208	Child, Family, and Community	3
CHST 150	Chicana/o/x Politics	3
CORR 101	Introduction to Corrections	3
EGSS 110	Introduction to Ethnic Studies	3
EGSS 120	Introduction to Women's Studies	3
EGSS 130	Introduction to LGBTQ+ Studies	3
HUSR 120	Introduction to Rehabilitation Services	3
HUSR 122	Introduction to Group Leadership and Process	3
HUSR 123	Drug Education and Prevention	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
PSY 114	Introduction to Abnormal Psychology	3
PSY 121	Drugs, Society, and Behavior	3
PSY 127	Introduction to the Physiological Effects of Drugs of Abuse	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
SOC 114	Marriage, Family and Intimate Relationships	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3
SOC 120	She, He, They: Intersections of Gender	3

SOC 127	Introduction to Criminology	3
SOC 130	Introduction to Disability Studies	3

\*Prerequisite

Total: 18-19

## SOCIAL SERVICES ASSISTANT Certificate of Achievement

### Description

The Social Services Assistant Certificate of Achievement provides a foundation for students interested in the fields of social services, human services, community outreach, and related areas. The certificate also offers a foundation for students interested in paraprofessional jobs in social service fields.

To acquire the **Social Services Assistant Certificate of Achievement**, it is necessary to complete the following courses:

### Required courses Units: 15-16

HUSR 111	Human Services in Contemporary Society	3
HUSR 124	Introduction to Case Management and Documentation	3
HUSR 130	Essential Counseling Skills	3
HUSR 199A	Seminar in Human Services*	1
AND		
HUSR 199B	Fieldwork in Human Services *	2-3
SOC 102	Major Social Problems	3

### Select ONE of the following courses: Units: 3

AJ 101	Introduction to Administration of Justice	3
AJ 250	Contemporary Issues in the Criminal Justice System	3
CD 106	Child Growth and Development	3
CD 208	Child, Family, and Community	3
CHST 150	Chicana/o/x Politics	3
CORR 101	Introduction to Corrections	3
EGSS 110	Introduction to Ethnic Studies	3
EGSS 120	Introduction to Women's Studies	3
EGSS 130	Introduction to LGBTQ+ Studies	3
HUSR 120	Introduction to Rehabilitation Services	3
HUSR 122	Introduction to Group Leadership and Process	3
HUSR 123	Drug Education and Prevention	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
PSY 114	Introduction to Abnormal Psychology	3
PSY 121	Drugs, Society, and Behavior	3
PSY 127	Introduction to the Physiological Effects of Drugs of Abuse	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
SOC 114	Marriage, Family and Intimate Relationships	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3
SOC 120	She, He, They: Intersections of Gender	3
SOC 127	Introduction to Criminology	3
SOC 130	Introduction to Disability Studies	3



## SOCIAL WORK AND HUMAN SERVICES Associate in Arts for Transfer

### Description

The **Associate in Arts in Social Work and Human Services for Transfer (AA-T) Degree** provides a foundation for students interested in the fields of social work, human services, counseling and related areas. The curriculum is designed to meet lower-division major requirements for the social work and human services (or similar) major at a CSU, including collaborative health and human services, criminal justice, human services, social work, and sociology.

**In addition to the courses listed below, the following requirements must be met for completion of the Associate in Arts in Social Work and Human Services for Transfer Degree:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better or a "P" if the course is taken on a pass-no pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education- Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Social Work and Human Services (or similar) major at the CSU where they seek transfer.

### Required Courses

**Units: 22-24**

HUSR 111	Human Services in Contemporary Society	3
SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
PSY 101	Introductory Psychology	3
OR		
PSY 101H	Introductory Psychology Honors*	3
HUSR 199A	Seminar in Human Services*	1
AND		
HUSR 199B	Fieldwork in Human Services*	2-3
MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4
BIOL 105	Human Biology	3
OR		
BIOL 125	Human Anatomy	4
OR		
BIOL 226	Human Physiology*	4
ECON 101	Principles of Macroeconomics*	3
OR		
ECON 101H	Principles of Macroeconomics Honors*	3
OR		
ECON 102	Principles of Microeconomics*	3

OR ECON 102H	Principles of Microeconomics Honors*	3
<b>Select two courses</b>		<b>Units: 6-6.5</b>
AJ 101	Introduction to Administration of Justice	3
ANTH 102	Introduction to Cultural Anthropology	3
OR		
ANTH 102H	Introduction to Cultural Anthropology Honors*	3
CD 106	Child Growth and Development	3
CD 208	Child, Family, and Community	3
ENGL 201	Advanced Composition and Critical Thinking*	3.5
OR		
ENGL 201H	Advanced Composition and Critical Thinking Honors*	3.5
HIST 143	History of the United States to 1877	3
OR		
HIST 143H	History of the United States to 1877 Honors*	3
HIST 144	History of the United States Since 1865	3
OR		
HIST 144H	History of the United States Since 1865 Honors*	3
PSY 112	Lifespan Development	3
PSY 114	Introduction to Abnormal Psychology	3
SOC 102	Major Social Problems	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3
SPCH 150	Intercultural Communication	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 28-30.5



**SOCIOLOGY**  
**Associate in Arts for Transfer**

**Description**

The **Associate in Arts in Sociology for Transfer (AA-T)** degree is intended to meet the lower division requirements for sociology majors (or similar majors) at a California State University (CSU) campus that offers a sociology baccalaureate degree.

This degree is designed to give foundational knowledge in the field of sociology for students looking to transfer, or for those who want a broad understanding of sociology and the social world.

**In addition to the courses listed below, the following requirements must be met for completion of the Associate in Arts in Sociology for Transfer Degree:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Sociology major at the CSU where they seek transfer.

**Required Courses** **Units: 6**

SOC 101	Introduction to Sociology	3
OR		
SOC 101H	Introduction to Sociology Honors*	3
SOC 102	Major Social Problems	3

**Choose one of the following statistics courses:** **Units: 4**

MATH 130	Statistics*	4
OR		
MATH 130H	Statistics Honors*	4
OR		
PSY 190	Statistics for the Behavioral Sciences*	4

**LIST A: Choose any TWO courses from the following list:** **Units: 6**

PSY 200	Research Methods in Psychology*	3
SOC 114	Marriage, Family and Intimate Relationships	3
SOC 116	Power, Oppression, and Privilege: Race and Ethnic Relations	3
SOC 120	She, He, They: Intersections of Gender	3
SOC 127	Introduction to Criminology	3

\*Prerequisite

**LIST B: Choose ONE of the following courses or one not used above:** **Units: 3**

SOC 105	Introduction to Human Sexuality	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective	3
SOC 130	Introduction to Disability Studies	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

Total: 19



**SPANISH**  
**Associate in Arts for Transfer**

**Description**

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The Associate in Arts in Spanish for Transfer (AA-T) Degree is intended to meet the lower division requirements for Spanish majors (or similar majors) at a California State University (CSU) campus that offers a bachelor's degree in Spanish.

This degree is designed for students interested in the field of the Spanish language and for students looking to further their understanding of the cultural and linguistic aspects of the language as they apply to the workplace. These courses will provide students with a solid foundation in Spanish language and culture that will be useful either for transferring or using in the workplace.

**In addition to the courses listed below, the following additional requirements must be met for completion of the Associate in Arts in Spanish for Transfer Degree:**



1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Spanish major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 18</b>
SPAN 101	Spanish I	4.5
OR		
SPAN 101S	Spanish for Spanish Speakers I	4.5
SPAN 102	Spanish II*	4.5
OR		
SPAN 102S	Spanish for Spanish Speakers II*	4.5
SPAN 201	Spanish III*	4.5
OR		
SPAN 201H	Spanish III Honors*	4.5
SPAN 202	Spanish IV*	4.5

\*Prerequisite

<b>LIST A: Choose at least one course (3-4.5 units) from the following list:</b>		<b>Units: 3-4.5</b>
FR 101	French I	4.5
FR 102	French II*	4.5
FR 201	French III*	4.5
FR 202	French IV*	4.5
HIST 122	History of Mexico	3
HUM 125	Introduction to Mexican Culture	3
OR		
HUM 125H	Introduction to Mexican Culture Honors*	3
HUM 130	Contemporary Mexican-American Culture	3
LIT 117	Mexican Literature in Translation	3
OR		
LIT 117H	Mexican Literature in Translation Honors*	3
LIT 149	Introduction to Chicana/o/x Literature*	3
OR		
LIT 149H	Introduction to Chicana/o/x Literature Honors*	3

If a student places out of any courses in the required course section above or fulfills required courses through AP exams that results in the student being short of the 18 unit minimum required in the major, they may select courses not taken above or from the following list:

ART 104	Art of the Ancient Americas	3
ART 108	The Art of Mexico	3
ENGL 126	Languages of the World	3
MUS 129	Music in Latin American Culture	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

Total: 21-22.5

## SPANISH Certificate of Achievement

### Description

The **Certificate of Achievement in Spanish** is designed to provide students with a strong foundation in the essentials of the Spanish language, including reading, listening, speaking, and writing skills. This certificate is intended for students pursuing other degrees or careers not necessarily related to the Spanish language but who still want to learn the language. With this certificate, students can petition their employer for any benefits that may be available for those who have skills in Spanish.

Students who successfully complete the certificate will be able to communicate competently in Spanish at a basic conversational level. While students will not be able to act as interpreters, they will be able to communicate directly with clients, customers, coworkers, or community members who are Spanish speakers and whose English proficiency may be limited.

To acquire the **Certificate of Achievement in Spanish**, it is necessary to complete the following courses:

Required Courses	Units: 16.5-18
SPAN 101            Spanish I	4.5
OR	
SPAN 101S        Spanish for Spanish Speakers I	4.5
SPAN 102            Spanish II*	4.5
OR	
SPAN 102S        Spanish for Spanish Speakers II*	4.5
SPAN 201            Spanish III*	4.5
OR	
SPAN 201H        Spanish III Honors*	4.5
SPAN 202            Spanish IV*	4.5

\*Prerequisite

Students who have successfully challenged the SPAN 101 or SPAN 101S prerequisite - Please choose one of the following courses:

ART 104            Art of the Ancient Americas	3
ART 108            The Art of Mexico	3
ENGL 126         Languages of the World	3
FR 101             French I	4.5
HIST 122         History of Mexico	3
HUM 125          Introduction to Mexican Culture	3
HUM 125H        Introduction to Mexican Culture Honors*	3
HUM 130          Contemporary Mexican-American Culture	3
LIT 117            Mexican Literature in Translation*	3
LIT 117H         Mexican Literature in Translation Honors*	3
LIT 149            Introduction to Chicana/o/x Literature*	3
LIT 149H         Introduction to Chicana/o/x Literature Honors*	3

Total: 16.5-18

## TESLA STUDENT AUTOMOTIVE TECHNICIAN (START) Certificate of Achievement

### Description

This Certificate of Achievement is intended to educate entry-level technicians in Tesla Motors technology. Topics will include safety when working in or around high voltage, maintenance, regeneration braking, inverter power transfer, battery technologies, battery management systems, high-voltage bus and charging, pack connector and penthouse controls, and autonomous technology. Electric vehicle applications and their integrated systems from Tesla Motors are used to discuss the

physics of battery storage and material composition and high-voltage generation systems. This course is suitable for students already working in the battery electric vehicle/hybrid vehicle and energy technology fields. Completion of this training is required by Tesla for employment as a Level I, Level II, or Level III technician; Mobile Service Technician; or Field Service Technician.

To acquire the **Certificate of Achievement in Tesla Student Automotive Technician (START)**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 14</b>
TESL 101A	Tesla Student Automotive Technician (START) Program - A*	3
TESL 101B	Tesla Student Automotive Technician (START) Program - B*	3
TESL 101C	Tesla Student Automotive Technician (START) Program - C*	3
TESL 101D	Tesla Student Automotive Technician (START) Program - D*	3
AUTO 290	Cooperative Work Experience/Internship for Automotive Technology Related Fields	2

\*Prerequisite

Total: 14



## **THEATRE ARTS**

### **Associate in Arts for Transfer**

#### **Description**

The **Associate in Arts in Theatre Arts for Transfer (AA-T)** is intended to meet the lower division requirements for Theatre Arts majors at a CSU campus that offers a Theatre Arts baccalaureate degree.

This degree is designed for students interested in a range of classes in the theatre arts. Students who earn an AA-T in Theatre Arts demonstrate knowledge and skill in areas including acting, theatre technology, dramaturgy, design (lights, set, costume, and/or make-up), theatre history, and play production. Foundational skills and knowledge of theatre is the springboard for an array of careers including professional actor, theatre critic, theatre director, playwright, set, costume, make-up or light designer, running crew and various film and television jobs.

**In addition to the courses listed below, the following requirements must be met for completion of the AA-T Degree in Theatre Arts:**

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the major with a grade of "C" or better in each course or a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

Students are advised to check with the Counseling Department or Transfer Center for the courses accepted into the Theatre Arts major at the CSU where they seek transfer.

<b>Required Courses</b>		<b>Units: 9</b>
THTR 101	Theatre Arts Appreciation	3
OR		
THTR 105	The History and Development of the Theatre	3
OR		
THTR 105H	The History and Development of the Theatre Honors*	3
THTR 110	Principles of Acting I	3

THTR 159	Stage Crew Activity	3
OR		
THTR 170	Theatre Rehearsal & Performance	3

**Choose 3 classes totaling 9 units from the following list: Units: 9**

THTR 111	Principles of Acting II*	3
THTR 150	Stagecraft I for Theatre, TV, and Film	3
THTR 153	Lighting Design and Production for Theatre, TV, and Film	3
THTR 174	Costume Design and Production for Theatre, TV, and Film	3

*If not used as Required Core:*

THTR 159	Stage Crew Activity	1-3
THTR 170	Theatre Rehearsal & Performance	3

**CSU GE or IGETC Pattern (Units will vary)**

**Transferable Electives as needed to reach 60 transferable units**

**DEGREE TOTAL 60 units**

\*Prerequisite

Total: 18

## THEATRE ARTS Associate of Science Degree

### Description

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To acquire the **Associate of Science Degree in Theatre Arts**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

**Required Courses Units: 27**

THTR 101	Theatre Arts Appreciation	3
THTR 105	The History and Development of the Theatre	3
OR		
THTR 105H	The History and Development of the Theatre Honors*	3
THTR 110	Principles of Acting I	3
THTR 111	Principles of Acting II*	3
THTR 150	Stagecraft I for Theatre, TV, and Film	3
THTR 151	Stagecraft II for Theatre, TV, and Film*	3
THTR 170	Theatre Rehearsal & Performance	3
THTR 230	Principles of Directing*	3
THTR 231	Principles of Directing II*	3

\*Prerequisite

Total: 27

## WELDING TECHNOLOGY

### Associate of Science Degree

#### Description

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The courses required for this degree comprise a comprehensive list of job-related skills needed to acquire advanced welding skills. The skills acquired during classes prepare students to take and pass the City of Los Angeles Certified Welder Exam, which also aligns with American Welding Society (AWS) standards.

To acquire the **Associate of Science Degree in Welding Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 26
WELD 040      Introduction to Welding Processes	2
WELD 041      Elementary Metallurgy	2
WELD 045      Basic Electric Arc Welding	2
WELD 050      Semi-Automatic Welding Process*	4
WELD 055      Manual Electric Arc Welding Processes*	4
WELD 060      Production Welding Techniques	4
WELD 065      Introduction to Gas Tungsten Arc Welding *	4
WELD 070      Advanced Gas Tungsten Arc Welding*	4

Select one course from the following:	Units: 2-4
TCED 090      Blueprint Reading for industry	2
WELD 075      Certification Welding I*	4

\*Prerequisite

Total: 28-30

## WELDING TECHNOLOGY/LADBS STRUCTURAL STEEL CERTIFICATON PROGRAM

### Certificate of Achievement

#### Description

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The courses required in this certificate compile a comprehensive list of job related skills needed to acquire advanced welding skills. The skills acquired during class will prepare an individual to take and pass the City of Los Angeles Department of Building and Safety (LADBS) Structural Steel Certified Welder Examination and Performance Test, which also aligns with standards and qualifications per the American Welding Society (AWS).

To acquire the **Certificate of Achievement in LADBS Structural Steel Certification Program**, it is necessary to complete the following courses with a grade of "C" or better:

Required Courses	Units: 17
WELD 040      Introduction to Welding Processes	2
WELD 050      Semi-Automatic Welding Process*	4
WELD 055      Manual Electric Arc Welding Processes*	4
WELD 075      Certification Welding I*	4
WELD 080      Certification Welding II*	3

\*Prerequisite

Total: 17

# WELDING TECHNOLOGY/PIPE WELDING AND FABRICATION

## Certificate of Achievement

### Description

The courses required in this certificate compile a comprehensive list of job related skills needed for Pipe Welding and Fabrication. The skills acquired during this program will prepare an individual to take and pass the AWS B2.1 SMAW 6G pipe welding performance exam, which also aligns with standards and qualifications per the American Welding Society (AWS), American Society of Mechanical Engineers (ASME), and American Petroleum Institute (API).

To acquire the **Certificate of Achievement in Pipe Welding and Fabrication**, it is necessary to complete the following courses:

Required Courses	Units: 24
WELD 081      Pipe Welding - Level I*	4
WELD 082      Pipe Layout and Fabrication*	4
WELD 083      Pipe Welding II*	4
WELD 084      Pipe Welding - Level III*	4
WELD 055      Manual Electric Arc Welding Processes*	4
WELD 050      Semi-Automatic Welding Process*	4

\*Prerequisite

Total: 24

## WILDLAND FIRE TECHNOLOGY

### Associate of Science Degree

### Description

This Degree program will provide the student with training in hand crew formation, fire line construction, and the use of wild land equipment. The behavior of fires, protective clothing, and wildland fire tools will also be addressed. The Wildland Fire Technology Associate Degree program is for those students who desire to gain an understanding of Wildland fire investigation, fire prevention and support operations. This program also meets the requirements for the U.S. Forest Service to be hired as an entry-level Wildland firefighter. This degree program will also aid currently employed municipal firefighters with the learning domains and knowledge base to respond to and mitigate a Wildland conflagration.

To acquire the **Associate of Science Degree in Wildland Fire Technology**, students must complete the required major courses below with a grade of "C" or better along with one of the following: Rio Hondo College General Education and Proficiency requirements, California State University General Education Breadth (CSU GE), or Intersegmental General Education Transfer Curriculum (IGETC).

Required Courses	Units: 15
WFT 101      Wildland Fire Behavior	3
WFT 102      Wildland Firefighter Safety and Survival	3
WFT 103      Wildland Fire Operations	3
WFT 104      Wildland Fire Investigation, Prevention, and Public Information	3
WFT 105      Wildland Fire Logistics, Finance, and Planning	3

**Plus a minimum of 9 units selected from the following:** **Units: 9-16**

EMT 093      Emergency Medical Technician*	9
EMT 100      Emergency Medical Responder	3
FTEC 044      Physical Fitness and Ability for the Firefighter*	3
FTEC 107      Hazardous Materials I	3
FTEC 108      Hazardous Materials II*	3
WFT 077      Wildland Fire Academy*	16

\*Prerequisite

Total: 24-31

## WILDLAND FIRE TECHNOLOGY Certificate of Achievement

### Description

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The **Certificate of Achievement in Wildland Fire Technology** offers the required courses and learning domains for students to apply for employment with wildland firefighting agencies such as the United States Forest Service; California Department of Forestry; United States Department of the Interior, Bureau of Land Management; National Park Service, as well as municipal fire departments.

To acquire the **Certificate of Achievement in Wildland Fire Technology**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 15</b>
WFT 101	Wildland Fire Behavior	3
WFT 102	Wildland Firefighter Safety and Survival	3
WFT 103	Wildland Fire Operations	3
WFT 104	Wildland Fire Investigation, Prevention, and Public Information	3
WFT 105	Wildland Fire Logistics, Finance, and Planning	3
<b>Plus a minimum of 9 units selected from the following:</b>		<b>Units: 9-16</b>
EMT 093	Emergency Medical Technician*	9
EMT 100	Emergency Medical Responder	3
FTEC 044	Physical Fitness and Ability for the Firefighter *	3
FTEC 107	Hazardous Materials I	3
FTEC 108	Hazardous Materials II*	3
WFT 077	Wildland Fire Academy*	16

\*Prerequisite

Total: 24-31

# 10 Bachelor of Science Degree Automotive Technology Program

## Admission Requirements:

### Upper Division Standing

Students interested in pursuing the Bachelor of Science in Automotive Technology must meet the following requirements to be considered to have upper division standing:

- Major courses: 32-35 units of transportation related courses from a designated associate degree course sequence per California Community College Chancellor's Office Taxonomy of Programs (TOP) codes 0948.00. Each course must be completed with a C or higher.
- A minimum of 30 units (45 quarter units) in general education from either the CSU GE or IGETC patterns with a 2.0 cumulative GPA. The 30 units must include the following courses, completed with a C or higher:
  - Written Communication
  - Oral Communication
  - Critical Thinking
  - Mathematics

Students must complete the CSU GE or IGETC pattern prior to earning the bachelor's degree.

Steps for applying for upper division standing:

- Apply to Río Hondo College
- Submit a completed supplemental application
- Submit all official transcripts to Admissions and Records (must be delivered from sending institution)

### Graduation with Latin Honors (for baccalaureate degree students only)

The following grade point average (GPA) criteria is used to identify bachelor's degree students who are eligible for the Latin honors designation:

- **Summa Cum Laude:** GPA equal to or greater than **3.85-4.00**
- **Magna Cum Laude:** GPA equal to or greater than **3.75 and up to 3.84**
- **Cum Laude:** GPA equal to or greater than **3.5 and up to 3.74**

Bachelor's degree students may be considered eligible for Latin honors at graduation provided that a minimum of 40 upper division units are earned at Río Hondo College. The GPA shall be determined from earned units at Río Hondo College plus all degree applicable units. Official conferral of Latin honors is determined during the final degree audit.

### Credit by Exam

The Board of Trustees of Río Hondo College, in accordance with provisions of Title 5 (55753), authorizes the college to grant appropriate semester unit credit to any student who is currently enrolled and successfully passes an examination administered by appropriate staff. Students may not be enrolled in the course for which they want to challenge and receive Credit by Examination.

The Automotive Technology Department has elected to grant course credit to enable students who can demonstrate proficiency in specific bodies of subject matter, to plan a relevant educational program that will exclude courses in which essential levels of mastery of subject matter material have been previously attained.



Students admitted to the bachelor's degree shall be given Río Hondo College course credit up to 16 units in lower division and 12 units in upper division automotive technology courses upon the successful completion of examinations (which will not count as units in residence). The student's transcript will denote credit earned by credit by examination.

To challenge a course and receive Credit by Examination a student must be registered in the college and be in good standing. Course(s) must be listed in the college catalog.

## Educational Leave

Students enrolled in upper division coursework for the Bachelor of Science in Automotive Technology may request an educational leave for one or two consecutive semesters without having to reapply to the upper division program upon their return. Students will need to reapply to the college if educational leave includes one primary term (fall or spring semester).

To be eligible for an educational leave students must:

- Complete at least one upper division course with a C or higher.
- Be in good academic standing.
- Must complete and submit the appropriate form to Admissions and Records including the reason for the educational leave and the approximate date to resume the upper division course work.

## Program Learning Outcomes

Graduates will be technically competent and possess strong interpersonal skills. They will have the ability to communicate effectively, be able to solve problems, work in teams, and will have developed an understanding of the need for continued professional development. The Program Learning Outcomes are grouped into five broad interrelated categories:

1. Specialized Knowledge
  - This category addresses what students should demonstrate with respect to the Automotive Technology Industry beyond the vocabularies, theories, and skills of the particular fields of study.
2. Broad and Integrative Knowledge
  - This category asks students to consolidate learning from different broad fields of study (e.g., Humanities, Arts, Applied Sciences, and Social Sciences) and to discover and explore concepts and questions that bridge these essential areas of learning.
3. Intellectual Skills
  - This category includes both traditional and nontraditional cognitive skills, which include analytic inquiry, use of information resources, engagement with diverse perspectives, ethical reasoning, and quantitative and communicative fluency. All of these emphasize the importance of students making, confronting, and interpreting ideas and arguments from different points of reference (e.g., cultural, technological, and political).
4. Applied and Collaborative Learning
  - This category emphasizes what students can do with what they know. Students will be asked to demonstrate their learning by addressing unscripted problems in scholarly inquiry, both at work and in other settings outside the classroom. It also includes research and creative activities involving both individual and group efforts, and may also include practical skills crucial to the application of expertise.
5. Civics and Global Learning
  - This category recognizes higher education's responsibilities both to democracy and global community. Students will demonstrate integration of their skills and knowledge by engaging with and responding to civic, social, environmental, and economic challenges at local, state, national, and international levels.

## Specific Program Learning Outcome Proficiencies

The following is an overview of the five categories of learning listed above at each level of the Automotive Technology Degree Courses (Lower Division and Upper Division), and defines the basic proficiencies to each area of learning, as well as describing their relationship to one another.

### Specialized Knowledge

- Lower Division Courses: Automotive Service Technician Major
  - Students shall describe the scope of the field of study, its core theories and practices, using field-related terminology, and offer a similar description of the field of study per Industry Standards.
  - Students shall apply tools, technologies, and methods to selected questions or problems of the field of study per Industry Standards.
  - Students shall generate substantially error-free products, reconstructions, data, juried exhibits, or performances appropriate to the field of study per Industry Standards.

- Upper Division Courses: Automotive Technical Studies
  - Students shall define and explain the structure, styles, and practices of the field of study using its tools, technologies, methods, and specialized terms per Industry Standards.
  - Students shall investigate a familiar but complex problem in the field of study by assembling, arranging, and reformulating ideas, concepts, designs, and techniques per Industry Standards
  - Students shall frame, clarify, and evaluate complex challenges that bridges the field of study and at least one other related field, using theories, tools, methods, and academics from those fields to produce independently or collaboratively an investigative, creative, or practical work illuminating said challenge per Industry Standards.
  - Students shall construct a summative project, paper, performance, or application that draws on current research, academics, and techniques in the field of study per Industry Standards.

### **Broad and Integrative Knowledge**

- Lower Division Courses: Automotive Service Technician Major
  - Students shall describe how existing knowledge or practice is advanced, tested, and revised in each core field studied, such as disciplinary and interdisciplinary courses in technology, applied sciences, social sciences, and humanities per Industry Standards.
  - Students shall describe a key debate or problem relevant to each core field studied, explain the significance of the debate or problem to the wider society, and show how concepts from the core fields can be used to address the selected debates or problems per Industry Standards.
  - Students shall use recognized methods of each core field studied, including the gathering and evaluation of evidence, in the execution of analytical, practical, or creative tasks per Industry Standards
  - Students shall describe and evaluate the ways in which at least two fields of study define, address, and interpret the importance for society of a problem in applied science, social science, humanities, or technology per Industry Standards.
- Upper Division Courses: Automotive Technical Studies
  - Students shall describe and evaluate the ways in which at least two fields of study define, address, and interpret the importance for society of a problem in applied science, social science, humanities, or technology, and explain how the methods of inquiry in these fields can address the challenge and proposes an approach to the problem that draws on these fields per Industry Standards.
  - Students shall produce an investigative, creative, or practical work that draws on specific theories, tools, and methods from at least two core fields of study per Industry Standards.
  - Students shall define and frame a problem important to the major field of study, justify the significance of the challenge or problem in a wider societal context, explain how methods from the primary field of study can be used to address the problem, and develop an approach that draws on both the major and core fields per Industry Standards.

### **Intellectual Skills**

- Lower Division Courses: Automotive Service Technician Major
  - Students shall identify and frame a problem or question in selected areas of study and distinguish among elements of ideas, concepts, theories, or practical approaches to the problem or question per Industry Standards.
  - Students shall identify, categorize, evaluate, and cite multiple information resources so as to create projects, papers, or performances in either a specialized field of study or with respect to a general theme within applied science, social science, humanities, or technology per Industry Standards.
  - Students shall describe how knowledge from different cultural perspectives might affect interpretations of prominent problems in politics, society, and global relations per Industry Standards.
  - Students shall describe, explain, and evaluate the sources of his/her own perspective on selected issues in culture, society, politics, or global relations, and compare that perspective with other views per Industry Standards.
  - Students shall describe the ethical issues present in prominent problems in politics, economics, health care, technology, or frameworks that help to inform decision- making with respect to such issues per Industry Standards.
  - Students shall present accurate interpretations of quantitative information on political, economic, health-related, or technological topics and explain how both calculations and symbolic operations are used in those offerings per Industry Standards.
  - Students shall create and explain graphs or other visual depictions of trends, relationships, or changes in status per Industry Standards.
  - Students shall develop and present valid, coherent, and substantially error-free writing for communication to general and specialized audiences per Industry Standards.
  - Students shall demonstrate effective interactive communication through discussion by actively listening, constructively responding, and through structured oral presentations to general and specialized audiences per Industry Standards.
  - Students shall negotiate with peers to develop an action plan for a practical task, and communicate the results of the negotiation either orally or in writing per Industry Standards.
- Upper Division Courses: Automotive Technical Studies

- Students shall differentiate and evaluate theories and approaches to selected complex problems within the chosen field of study and at least one other field per Industry Standards.
- Students shall locate, evaluate, incorporate, and properly cite multiple information resources in different media or different languages in projects, papers, or performances per Industry Standards.
- Students shall generate information through independent or collaborative inquiry and uses that information in a project, paper, or performance per Industry Standards.
- Students shall construct a written project, laboratory report, exhibit, performance, or community service design expressing an alternate cultural, political, or technological vision, and explain how this vision differs from current realities.
- Students shall frame a controversy or problem within a field of study in terms of at least two political, cultural, historical, or technological forces, explore and evaluate competing perspectives on the controversy or problem, and presents a reasoned analysis of the issue, either orally or in writing, that demonstrates consideration of the competing views per Industry Standards.
- Students shall analyze competing claims from a recent discovery, scientific contention, or technical practice with respect to benefits and harms to those affected, articulate the ethical dilemmas inherent in the tension of benefits and harms, and either arrive at a clearly expressed reconciliation of that tension that is informed by ethical principles, or explain why such a reconciliation cannot be accomplished per Industry Standards.
- Students shall identify and elaborate key ethical issues present in at least one prominent social or cultural problem, articulate the ways in which at least two differing ethical perspectives influence decision making concerning those problems, and develop and defend an approach to productively address the ethical issue per Industry Standards.
- Students shall translate verbal problems into mathematical algorithms so as to construct valid arguments using accepted symbolic systems of mathematical reasoning, and presents the resulting calculations, estimates, risk analyses, or quantitative evaluations of public information in papers, projects, or multimedia presentations per Industry Standards.
- Students shall construct mathematical expressions where appropriate for issues initially described in non-quantitate terms per Industry Standards.
- Students shall construct sustained, coherent arguments, narratives, or detailed explanations of issues, problems, or technical issues and processes in writing and at least in one other medium to general and specific audiences per Industry Standards.
- Students shall conduct an inquiry concerning information, conditions, technologies, or practices in the field of study that makes substantive use of non-English-language sources per Industry Standards.
- Students shall negotiate with one or more collaborators to advance an oral argument or articulate an approach to resolving a social, personal, or ethical dilemma per Industry Standards.

### **Applied and Collaborative Learning**

- Lower Division Courses: Automotive Service Technician Major
  - Students shall describe in writing at least one case in which knowledge and skills acquired in academic settings may be applied to a field-based challenge, and evaluate the learning gained from the application per Industry Standards.
  - Students shall analyze at least one significant concept or method in the field of study in light of learning outside the classroom per Industry Standards
  - Students shall locate, gather, and organize evidence regarding a question in a field-based venue beyond formal academic study and offer alternate approaches to answering the question per Industry Standards.
  - Students shall demonstrate the exercise of any practical skills crucial to the application of expertise per Industry Standards.
  
- Upper Division Courses: Automotive Technical Studies
  - Students shall prepare and present a project, paper, exhibit, performance, or other appropriate demonstration linking knowledge or skills acquired in work, community, or research activities with knowledge acquired in one or more fields of study, explain how those elements are structured, and employ appropriate citations to demonstrate the relationship of the product to literature of the field per Industry Standards.
  - Students shall negotiate a strategy for group research or performance, document the strategy so that others may understand it, implement the strategy, and communicate the results per Industry Standards.
  - Student shall write a design, review, or illustrative application for an analysis or case study in an applied scientific, social scientific, technical, or business context per Industry Standards.
  - Student shall complete a substantial project that evaluates a significant question in the field of study, including an analytic narrative of the effects of learning outside the classroom on the research or practical skills employed in executing the project per Industry Standards.

### **Civics and Global Learning**

- Lower Division Courses: Automotive Service Technician Major
  - Students shall describe his/her own civic and cultural background, including its origins and development, assumptions, and predispositions per Industry Standards.
  - Students shall describe diverse positions, historical, and contemporary, on selected democratic values or practices, and present his/ her own position on a specific problem where one or more of these values or practices are involved per Industry Standards.
  - Students shall provide evidence of participation in a community project through either a spoken or written narrative that identifies the civic issues encountered, and personal insights gained from this experience per Industry Standards.
  - Students shall identify an economic, environmental, or public health challenge spanning countries, continents, or cultures, present evidence for the challenge, and take a position on it per Industry Standards.

- Upper Division Courses: Automotive Technical Studies
  - Students shall explain diverse positions, including those representing different cultural, economic, and geographic interests, on a contested public issue, and evaluate the issue in light of both of those interests and evidence drawn from journalistic and academic publications per Industry Standards.
  - Students shall develop and justify a position on a public issue and relate this position to alternate views held by the public or within the policy environment per Industry Standards.
  - Students shall collaborate with others in developing and implementing an approach to a civic issue, evaluate the strengths and weaknesses of the processes, and describe the results per Industry Standards.
  - Students shall identify a significant issue affecting countries, continents, or cultures, present quantitative evidence of that challenge through tables and graphs, and evaluate the activities of either non- governmental organizations or cooperative inter-governmental initiatives in addressing identified issue(s) per Industry Standards.

# Automotive Technology

## Bachelor of Science Degree

### Description

The Bachelor of Science (B.S.) degree in Automotive Technology is designed to prepare students for a wide variety of technology-based careers in a pathway emphasizing the automotive industry.

Graduates with the Bachelor of Science degree in Automotive Technology will find employment in administrative and supervisory positions in automotive industry-related organizations and assume responsibilities in the areas of product development, post-production support, customer sales and service support, distribution, and training. Graduates will have the practical skills, technical knowledge, and organizational competencies required of mid-level management personnel.

The courses will enhance the students' levels of technical competency, computer, math, and science skills, effective communication and interpersonal skills, substantiate workplace and social ethics, the ability to work in teams, and to continue to pursue professional development and lifelong learning.

Students admitted to the bachelor of science degree upper division program must have completed lower division major and general education coursework requirements.

### Required Courses

Units: 27

AUTO 300	Assessment of the Automotive Industry*	3
AUTO 310	The Global Development and Advancement of the Automobile*	3
AUTO 320	The Progressive Growth of Automotive Technology*	3
AUTO 330	Hybrid/Electric Vehicles*	3
AUTO 340	Analyzing Vehicle Electrical/Electronic Systems*	3
AUTO 350	The Future of Automotive Sales and Service*	3
AUTO 360	Analyzing Vehicle Fuels, Lubricants, and Combustion*	3
AUTO 375	The Future of Mobility*	3
AUTO 410	Digital Marketing for the Automotive Industry*	3

\*Prerequisite

### Choose two courses from the following:

Units: 6

AUTO 400	Analyzing Vehicle Stability, Dynamics, and NVH*	3
AUTO 420	Analyzing Dynamic Functions of Vehicle Drivetrain Systems*	3
AUTO 435	Automotive Manufacturers*	3
AUTO 440	Analyzing Vehicle Safety, Comfort, and Security Systems*	3
AUTO 450	Variable and Fixed Operations of the Automotive Industry*	3

### Choose one course from the following:

Units: 3

AUTO 480	Special Topics in Transportation*	3
AUTO 499	Directed Study in Automotive Technology*	1-4

### Upper Division General Education Courses

Units:

#### Required Course:

Units: 3

ENGL 325	Technical and Professional Writing*	3
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### Choose two courses from the following:

Units: 6

GEOG 310	Environmental Geography*	3
HIST 325	History of Science and Technology*	3
PHIL 325	Applied and Professional Ethics*	3

Total: 45

# 11 Program Level Outcomes

## *Degree, Certificate, and General Education*

## Program Level Outcomes (PLOs) – Degrees & Certificates

Program level outcomes (PLOs) for degrees and certificates represent the knowledge, skills, and/or abilities that students should be able to demonstrate upon completion of a degree or certificate program.

### Arts and Cultural Programs Division

#### ANIMATION – AS DEGREE

- When given a concept design problem, students will employ digital and traditional methods to develop and communicate a concept that is original and visually engaging.
- When given an animation problem, students will employ the use of industry standard 3D software to create an animation that exhibits a knowledge and understanding of the principles of animation.
- When given a specific topic, students will employ the latest digital visualization tools to develop and create a project suitable for a portfolio in the entertainment industry.

#### ART HISTORY – AA-T DEGREE

- Given a work of art to discuss, students will apply art historical terminology and methodology in its analysis and interpretation.
- Given a comparative analysis prompt, students will discuss works of art representative of diverse cultures and regions within a historical and social context.
- Given an image or set of images to analyze, students will explain how works of art communicate meaning visually.
- Given a visual analysis prompt, students will describe the principles and formal elements of visual art.
- Given an art historical or historical context, students will express an understanding of the roles and functions of art in society.

#### ART/STUDIO ART DEGREE – AA DEGREE

#### ART/STUDIO ART DEGREE – AA-T DEGREE

- Students will describe and discuss the fundamental or “formal properties” of art: line, positive/negative space, shade/texture, color, etc.
- Students will identify, analyze, and evaluate basic techniques of “process” in a variety of media: drawing, painting, sculpture, printmaking, computer graphics, photography, ceramics, etc.
- Students will produce carefully considered art works to final completion, thereby demonstrating their “practice” of art.

#### ENTERTAINMENT ART – DIGITAL CHARACTERS – CERTIFICATE

- When given a concept design or illustration problem, students will employ proficient problem-solving skills using research, development, ideation, and sequential art.
- When tasked with a character design, students will employ traditional and digital tools to generate an assortment of concept art, including creatures, characters, and costumes in both 2D and 3D.
- When tasked with the development of a character and story, students will effectively employ anatomy, gesture, staging, and action.
- When given a final concept, students will generate 3D assets using effective polyflow practices to allow for appropriate rendering, animation, and clean unwraps.

#### ENTERTAINMENT ART – DIGITAL ENVIRONMENT – CERTIFICATE

- When given a concept design or illustration problem, students will employ proficient problem-solving skills using research, development, ideation, and sequential art.
- When tasked with an environmental concept, students will employ traditional and digital tools to create a variety of concept art, including environments, vehicles, and props in both 2D and 3D.
- When tasked with an environmental concept, students will employ efficient and accurate digital drawing and painting skills that demonstrate an understanding of perspective and light logic.
- When given a final concept, students will generate 3D assets using effective polyflow practices to allow for appropriate rendering, animation, and clean unwraps.

#### GRAPHIC ART AND DESIGN – AA DEGREE

- When completing a graphic art or design project, students will be able to demonstrate fluency in the visual vocabulary and technical skills relevant to graphic art and graphic design.

#### Degree, Certificate, and General Education

- When assigned a graphic design project, students will demonstrate an understanding of the design process through research, ideation, development, and presentation of graphic art and graphic design.
- When considering the context of a graphic art and/or graphic design solution, students will understand the cultural, social, and economic environment in which their ideas, products, and strategic solutions apply.
- When evaluating graphic design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic art and/or graphic design work, students will apply professional awareness and understand the physical preparation needed to enter the graphic design workspace.



## **GRAPHIC DESIGN – AS DEGREE**

- When completing a graphic design project, students will be able to demonstrate fluency in the visual vocabulary and technical skills relevant to graphic design.
- When assigned a graphic design project, students will demonstrate an understanding of the design process through research, ideation, development, and presentation of graphic design.
- When considering the context of a graphic design solution, students will understand the cultural, social, and economic environment in which their ideas, products, and strategic solutions apply.
- When evaluating graphic design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic design work, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.

## **GRAPHIC DESIGN – CERTIFICATE**

- When completing a graphic design project, students will be able to demonstrate efficiency in the visual vocabulary and technical skills relevant to graphic design.
- When assigned a graphic design project, students will demonstrate an understanding of the design process through research, ideation, development, and presentation of graphic design.
- When considering the context of a graphic design solution, students will understand the cultural, social, and economic environment in which their ideas, products, and strategic solutions apply.
- When evaluating graphic design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic design work, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.

## **GRAPHIC DESIGN: ADVERTISING DESIGN – CERTIFICATE**

- When developing a graphic design advertising project, students will be able to demonstrate a fundamental understanding of basic elements of typography (e.g., fonts, leading, kerning and tracking, etc.).
- When assigned a graphic design advertising project, students will be able to research, conceptualize, render, and create a vector-based design solution.
- When considering the context of a graphic design advertising solution, students will be able to use advanced tools within a raster- and bitmap-based design software program.
- When evaluating graphic design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic design advertising work, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.

## **GRAPHIC DESIGN: BRANDING IDENTITY DESIGN – CERTIFICATE**

- When developing a graphic design branding and identity project, students will be able to demonstrate a fundamental understanding of basic elements of typography (e.g., fonts, leading, kerning and tracking, etc.).

- When assigned a graphic design branding and identity project, students will be able to research, conceptualize, render, and create a vector-based design solution.
- When assigned a graphic design packaging project, students will be able to research, conceptualize, and render a branding and identity design solution for a client.
- When evaluating graphic design branding and identity design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic design branding and identity work, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.

## **GRAPHIC DESIGN: ENTREPRENEURIAL GRAPHIC DESIGN – CERTIFICATE**

- When completing a graphic design project, students will be able to demonstrate efficiency in the visual vocabulary and technical skills relevant to graphic design.
- When assigned a graphic design project, students will demonstrate an understanding of the design process through research, ideation, development, and presentation of graphic design.
- When considering the context of a graphic design solution, students will understand the cultural, social, and economic environment in which their ideas, products, and strategic solutions apply.
- When evaluating graphic design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic design work, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.
- When creating a small graphic design business, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.
- When developing a small graphic design business, students will apply professional awareness, and demonstrate and apply marketing needed to enter the graphic design workspace.
- When developing a small graphic design business, students will apply professional awareness, and create a basic business plan needed to enter the graphic design workspace.

## **GRAPHIC DESIGN: PACKAGING DESIGN – CERTIFICATE**

- When developing a graphic design packaging design project, students will be able to demonstrate a fundamental understanding of basic elements of typography (e.g., fonts, leading, kerning and tracking, etc.).
- When assigned a graphic design packaging design project, students will be able to research, conceptualize, render, and create a vector-based design solution.
- When assigned a graphic design packaging design project, students will be able to use advanced tools and menus within a package software program to produce packaging design solutions.
- When evaluating graphic design packaging design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic design packaging design work, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.

## **GRAPHIC DESIGN: PUBLICATION DESIGN – CERTIFICATE**

- When developing a graphic design publication design project, students will be able to demonstrate a fundamental understanding of basic elements of typography (e.g., fonts, leading, kerning and tracking, etc.).
- When assigned a graphic design publication design project, students will be able to use fundamental tools and menus within a publication design software program.
- When evaluating graphic design publication design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of graphic design publication design work, students will apply professional awareness, and understand the physical preparation needed to enter the graphic design workspace.

#### **GRAPHIC DESIGN: WEBSITE DESIGN – CERTIFICATE**

- When developing a website design project, students will be able to demonstrate a fundamental understanding of basic elements of typography (e.g., fonts, leading, kerning and tracking, etc.).
- When assigned a website design project, students will be able to use advanced tools within a raster- and bitmapbased design software program.
- When assigned a website design project, students will be able to use advanced tools and menus within website design software programs to produce website design solutions.
- When evaluating website design, students will be able to demonstrate through critiques, discussions, and coursework the principles and elements of design.
- When creating a portfolio of website design work, students will apply professional awareness, and understand the physical preparation needed to enter the website design workspace.

#### **MUSIC – AA DEGREE MUSIC – AA-T DEGREE**

- Students will demonstrate a second-year undergraduate level competency in piano performance and piano literature.
- Students will demonstrate the ability to perform in a large ensemble, chamber group, or as a soloist through blending, playing in tune and adhering to articulations and dynamics while conducting or being conducted in many different styles and periods.
- Students will demonstrate a second-year undergraduate level competency in music theory and musicianship through four-part chorale writing, analysis, audiation, and dictation of baroque through contemporary music styles.
- Students will demonstrate an understanding of the cultural, socioeconomic, and political implications of music history from antiquity through contemporary music styles.
- Students will demonstrate a basic understanding and practical knowledge of music technology.

#### **MUSIC AND INTEGRATED TECHNOLOGY – AS DEGREE**

- Students will be able to demonstrate an understanding of how the music business functions, and the role of professionals in the industry.
- Students will be able to demonstrate a basic understanding and practical knowledge of music technology in the areas of music production, studio recording, and live sound reinforcement.
- Students will be able to demonstrate a basic understanding of the creative processes for songwriting and electronic music production.
- Students will be able to demonstrate a first-year undergraduate level competency in music theory and

musicianship through four-part chorale writing, analysis, audiation, and dictation of diatonic music examples.

- Students will be able to demonstrate an understanding of the cultural, socio-economic, and political implications of contemporary music history.

#### **MUSIC: INTRODUCTORY ELECTRONIC MUSIC – CERTIFICATE**

- Students will be able to produce electronic music in specified genres.
- Students will be able to compose electronic music utilizing various types of synthesis and samples.
- Students will be able to create electronic music utilizing various digital and analog formats.
- Students will be able to demonstrate an understanding of how the music business functions and the role of professionals in the industry.
- Students will be able to demonstrate a basic understanding and practical knowledge of music technology in the areas of music production, studio recording, and live sound reinforcement.

#### **MUSIC: ADVANCED ELECTRONIC MUSIC – CERTIFICATE**

- Students will be able to write complex electronic music incorporating contemporary harmony and modern compositional processes.
- Students will be able to compose electronic music utilizing various types of advanced synthesis.
- Students will be able to program mapping for various gesture controllers.
- Students will be able to demonstrate a second-year undergraduate level competency in music theory and musicianship through four-part chorale writing, analysis, audiation, and dictation of diatonic music examples.
- Students will be able to collaborate effectively through group project-based learning.

#### **MUSIC: INTRODUCTORY SONGWRITING AND ARRANGING – CERTIFICATE**

- Students will be able to compose original songs and lyrics in specified genres.
- Students will be able to analyze basic songs in order to identify genre, form, structure, groove, and lyrical elements.
- Students will be able to create a lead sheet for original compositions.
- Students will be able to demonstrate an understanding of how the music business functions and the role of professionals in the industry.
- Students will be able to demonstrate a basic understanding and practical knowledge of music technology in the areas of music production, studio recording, and live sound reinforcement.

#### **MUSIC: ADVANCED SONGWRITING AND ARRANGING – CERTIFICATE**

- Students will be able to write complex songs by incorporating contemporary harmony and form.
- Students will be able to analyze complex songs in order to identify genre, form, structure, groove, and lyrical elements.
- Students will be able to create a lead sheet, score, and parts for strings, horn section, and back-up harmonies.
- Students will be able to compose melodies and their accompaniment using harmony or counterpoint.



- Students will be able to demonstrate a second-year undergraduate level competency in music theory and musicianship through four-part chorale writing, analysis, audiation, and dictation of diatonic music examples.
- Students will be able to collaborate effectively through group project-based learning.

#### **MUSIC: INTRODUCTORY SOUND DESIGN – CERTIFICATE**

- Students will be able to demonstrate an understanding of how the music business functions and the role of professionals in the industry.
- Students will be able to demonstrate a basic understanding and practical knowledge of music technology in the areas of music production and studio recording.
- Students will be able to use basic approaches to digital signal processing (DSP) and synthesis to generate and sculpt sound.
- Students will be able to work in an intermediate-level, collaborative sound designing environment to produce a successful deliverable.

#### **MUSIC: ADVANCED SOUND DESIGN – CERTIFICATE**

- Students will be able to demonstrate an advanced understanding and knowledge of music technology in the areas of music production and studio recording.
- Students will be able to use more complex approaches to digital signal processing (DSP) and synthesis to generate and sculpt sound.
- Students will be able to work in an advanced-level, collaborative sound designing environment to produce a successful deliverable.
- Students will be able to explain advanced theoretical principles and concepts necessary to create complex sounds.

#### **MUSIC: LIVE SOUND ENGINEER – CERTIFICATE**

- Students will be able to demonstrate an understanding of how the music business functions and the role of professionals in the industry.
- Students will be able to demonstrate a basic understanding and practical knowledge of music technology in the areas of music production and studio recording.
- Students will be able to demonstrate how to set up, test, tune, and troubleshoot a live sound reinforcement system.
- Students will be able to demonstrate specific tasks that include operating a front-of-house mix and stage monitors from a side-stage mixing board, and performing tasks that include audio feedback as well as communication with musicians.
- Students will be able to collaborate effectively through group project-based learning.

#### **MUSIC: RECORDING ENGINEER – CERTIFICATE**

- Students will be able to demonstrate an understanding of how the music business functions and the role of professionals in the industry.
- Students will be able to use digital audio workstation (DAW) software for recording and non-linear audio editing.
- Students will be able to set up, record, and document a recording session.
- Students will be able to collaborate effectively through group project-based learning.

#### **MUSIC: MUSIC PRODUCTION – CERTIFICATE**

- Students will be able to demonstrate an understanding of how the music business functions and the role of professionals in the industry.
- Students will be able to provide leadership as a postproduction team member by giving direction to and working with engineers, managers, and performers.
- Students will be able to organize, conduct, and produce a recording session. • Students will be able to collaborate effectively through group project-based learning.

#### **MUSIC: MUSIC COMPOSITION – CERTIFICATE**

- Students will be able to demonstrate an understanding of how the music business functions and the role of professionals in the industry.
- Students will be able to demonstrate a second-year undergraduate level competency in music theory and musicianship through four-part chorale writing, analysis, audiation, and dictation of diatonic music examples.
- Students will be able to utilize contemporary compositional styles and techniques for the purpose of training for work as composers in the music as well as scoring films, video games, and other media.
- Students will be able to analyze complex musical compositions.

#### **PHOTOGRAPHY – AA DEGREE**

- Río Hondo photography majors will create properly exposed photographs that demonstrate effective control of aperture, shutter speed, and ISO settings in various lighting situations.
- Students will demonstrate an understanding of the safe and proper use of equipment including cameras, darkroom, lighting, and digital equipment.
- Students will identify basic principles of photographic composition and apply these elements in the creation of photographic images.
- Students will recognize and identify important historic photographic genres based on their formal and conceptual elements.
- Students will demonstrate visual literacy by verbally analyzing both the formal and conceptual properties of photographic works utilizing appropriate photographic vocabulary.
- Students will create a portfolio of photographic work that demonstrates an understanding of print finishing and presentation.

#### **THEATER ARTS – AS DEGREE**

#### **THEATER ARTS – AA-T DEGREE**

- All Theatre Arts majors will identify basic theatre vocabulary and terminology (for example, stage directions and theatre genres).
- Students will demonstrate an understanding of basic backstage practices and procedures.
- Students will memorize and perform a live scene successfully.

### **Behavioral and Social Science Division**

#### **ANTHROPOLOGY – AA-T DEGREE**

- Students will analyze and interpret anthropological data and theories.
- Students will apply cross-cultural methods of analysis.
- Students will demonstrate an understanding of anthropological information.

### **CHICANO STUDIES – AA DEGREE**

- Students will (1) define and explain the basic terms and concepts with the field of Chicana/o/x Studies; (2) identify and analyze at minimum two contemporary issues affecting the Chicana/o/x/ Latinx community.

### **CHILD DEVELOPMENT – AS DEGREE**

- Students will explain and demonstrate the principles of developmentally appropriate practice while planning for and interacting with children in the early childhood classroom.

### **CHILD DEVELOPMENT – CERTIFICATE**

- Students will explain and demonstrate the principles of developmentally appropriate practice while planning for and interacting with children in the early childhood classroom.

### **DRUG STUDIES – AS DEGREE**

- Students will demonstrate an understanding of concepts, theories, and techniques that are foundational to the practice of addiction treatment.
- Students will demonstrate an understanding of assessment methods, treatment planning, and case management.
- Students will demonstrate an understanding of recovery-oriented behavior in addiction treatment management.
- Students will demonstrate an understanding of ethical practices in addiction treatment.

### **DRUG STUDIES – CERTIFICATE**

- Students will demonstrate an understanding of concepts, theories, and techniques that are foundational to the practice of addiction treatment.
- Students will demonstrate an understanding of assessment methods, treatment planning, and case management.
- Students will demonstrate an understanding of recovery-oriented behavior in addiction treatment management.
- Students will demonstrate an understanding of ethical practices in addiction treatment.

### **GENERAL STUDIES: SOCIAL BEHAVIOR AND SELF-DEVELOPMENT – AA DEGREE**

- Students will think critically in order to understand social issues.

### **GENERAL STUDIES: SOCIAL SCIENCES – AA DEGREE**

- Students will think critically in order to understand social issues.
- Students will recognize verbally or in writing the basic vocabulary and concepts of at least one social or behavioral science discipline.

### **HISTORY – AA-T DEGREE**

- Students will demonstrate command of historical chronology and basic literacy of key events associated with the study of the past.
- Students will accurately identify historical sources and then apply appropriate historical methods to explain what the source reveals about its historical context.

- Students will accurately describe, compare, and evaluate historical interpretations (secondary sources), analyzing them for their relative quality, accuracy, and persuasiveness.

### **PHILOSOPHY – AA-T DEGREE**

- Given previous instruction in a philosophical theory, students will correctly identify and explain the basic elements of that theory.
- Students will demonstrate an ability to read and comprehend philosophical texts by accurately identifying the main point and supporting points.
- Students will apply the basic elements of a philosophical theory to a real world scenario.
- Students will develop/articulate a critical understanding of the work of Western philosophers, demonstrating through competent paraphrase.
- Students will defend a philosophical position or argument.
- Students will evaluate the validity of a deductive argument.
- Students will evaluate the strength of an inductive argument.
- Students will reason effectively.

### **PRESCHOOL TEACHER – CERTIFICATE**

- Students will explain and demonstrate the principles of developmentally appropriate practice while planning for and interacting with children in the early childhood classroom.

### **PSYCHOLOGY – AA-T DEGREE**

- Given research findings and theories in psychology, students will describe and/or evaluate the role that genetics and environment play in different behaviors.
- Students will compare and contrast the experimental method to other types of inquiry.
- Students will identify the important historical figures in psychology and explain their key contributions to the field.

### **SOCIOLOGY – AA-T DEGREE**

- Students will understand the foundations of Sociology as a discipline.
- Students will have a broad understanding of society and social behavior.
- Students will understand the importance of social and historical contexts.
- Students will demonstrate basic social analysis skills. Business Division.

## **Business Division**

### **ACCOUNTING – AS DEGREE**

- Students will demonstrate an understanding of basic accounting principles and procedures as well as the role of accounting and bookkeeping within various business organizations.
- Students will apply critical thinking skills derived from knowledge of accounting theory to financial analysis and management decision making.
- Students will recognize and understand the importance of ethics and social responsibility in the accounting profession.
- Students will analyze, process, and report financial information in accordance with generally accepted accounting principles within established normal and computerized protocols.

- Students will relate material from completed courses to their current and future professional needs, even if these needs fall into a different discipline.

#### **ACCOUNTING – CERTIFICATE**

- Students will demonstrate an understanding of basic accounting principles and procedures, as well as the role of accounting and bookkeeping within various business organizations.
- Students will apply critical thinking skills derived from knowledge of accounting theory to financial analysis and management decision making.
- Students will recognize and understand the importance of ethics and social responsibility in the accounting profession.
- Students will analyze, process, and report financial information in accordance with generally accepted accounting principles within established normal and computerized protocols.

#### **ACCOUNTING FOR GOVERNMENT AND NONPROFIT ORGANIZATIONS – CERTIFICATE**

- Students will develop a comprehensive understanding of accounting as an "information system."
- Students will record and analyze business transactions using accounting software.
- Students will distinguish between the main objectives for commercial entities, government entities, and not-for-profit entities.
- Students will identify, compare, and explain the basic fund types for state and local governmental accounting.
- Students will describe and analyze how accounting concepts apply to state and local governmental accounting.
- Students will prepare basic governmental and not-for-profit budgetary, operating, and closing entries.

#### **BUSINESS ADMINISTRATION – AA DEGREE**

- Students will evaluate the use of financial budgeting concepts to make sound decisions in managing business finances through the preparation of financial statements, recording and posting journal entries, and transforming data into information.
- Students will demonstrate an understanding of economic principles by differentiating between micro and macro economics, explaining supply and demand, and applying economic principles to make business decisions.
- Students will use statistical and mathematical expressions to make general statements about populations of customers and make numeric business decisions.

#### **BUSINESS MARKETING – AS DEGREE AND CERTIFICATE**

- Students will analyze a business situation by conducting a SWOT analysis (strengths, weaknesses, opportunities and threats) and utilize the outcomes to make business decisions.
- Students will create a marketing plan that explains the marketing mix and defines the appropriate target market.
- Given a business marketing situation, students will identify the most profitable segments of the market, define the logical target market, and describe how the business of product will be positioned.

#### **COMPUTER INFORMATION TECHNOLOGY: COMPUTER SYSTEMS – AS DEGREE AND CERTIFICATE**

- Students will demonstrate basic computer literacy skills including operating input/output devices and proficiency in the Microsoft Office applications suite.

- Students will apply critical-thinking and problem-solving skills required by employers and four-year universities.
- Students will analyze a problem and identify and define the computing requirements required for its solution.

#### **COMPUTER INFORMATION TECHNOLOGY: CLOUD COMPUTING PRACTITIONER – CERTIFICATE**

- Students will apply critical-thinking and problem-solving skills in a cloud computing environment.
- Students will learn installation and configuration of cloud computing resources for an enterprise environment.
- Students will understand the architectural principles required to build a cloud system that meets identified technical requirements.
- Student will demonstrate basic knowledge of the cybersecurity principles of confidentiality, integrity, and availability (CIA).

#### **COMPUTER INFORMATION TECHNOLOGY: CYBERSECURITY – AS DEGREE AND CERTIFICATE**

- Students will demonstrate knowledge of security policies for businesses.
- Students will understand objectives of security policies for businesses and the IT infrastructure of these policies.
- Students will demonstrate proficiency in IT infrastructure security.
- Students will learn to identify risks and use tools for the prevention, detection, and mitigation of threats to computer systems; and the recovery and accountability of systems.
- Students will apply critical-thinking skills in applying cybersecurity solutions.

#### **COMPUTER INFORMATION TECHNOLOGY: CYBERSECURITY TECHNICIAN – CERTIFICATE**

- Students will demonstrate knowledge of security policies for businesses.
- Students will understand objectives of security policies for businesses and the IT infrastructure of these policies.
- Students will demonstrate proficiency in IT infrastructure security.
- Students will learn to identify risks and use tools for the prevention, detection, and mitigation of threats to computer systems; and the recovery and accountability of systems.

#### **COMPUTER INFORMATION TECHNOLOGY: CYBERSECURITY ETHICAL HACKER – CERTIFICATE**

- Students will demonstrate knowledge of security policies for businesses.
- Students will understand objectives of security policies for businesses and the IT infrastructure of these policies.
- Students will demonstrate proficiency in IT infrastructure security.
- Students will learn to identify risks and use tools for the prevention, detection, and mitigation of threats to computer systems; and the recovery and accountability of systems.
- Students will demonstrate knowledge of the tools and resources used to attack business vulnerabilities and align proper mitigations.

#### **COMPUTER INFORMATION TECHNOLOGY: INFORMATION SYSTEMS AND TECHNOLOGY – AS DEGREE AND CERTIFICATE**

- Students will demonstrate problem-solving skills in a business environment.

- Students will demonstrate fundamentals of business operations.
- Students will demonstrate basic knowledge of policies and procedures for securing a business environment.

#### **COMPUTER INFORMATION TECHNOLOGY: NETWORK ADMINISTRATOR – AS DEGREE AND CERTIFICATE**

- Students will demonstrate knowledge of the architectural principles of computer networks in a business environment.
- Students will apply critical-thinking and problem-solving skills in a computer network environment.
- Students will demonstrate basic knowledge of the cybersecurity principles of confidentiality, integrity, and availability (CIA).

#### **COMPUTER INFORMATION TECHNOLOGY: NETWORK TECHNICIAN – CERTIFICATE**

- Students will demonstrate knowledge of computer networks in a business environment.
- Students will demonstrate basic knowledge of the cybersecurity principles of confidentiality, integrity, and availability (CIA).

#### **COMPUTER INFORMATION TECHNOLOGY OFFICE TECHNOLOGIES – AS DEGREE AND CERTIFICATE**

- Students will demonstrate computer literacy skills including the use of input/output devices and basic Windows operating system (OS) navigation.
- Students will demonstrate proficiency in using industry-leading suites of office applications.
- Students will apply critical-thinking and problem-solving skills in an office environment.

#### **COMPUTER INFORMATION TECHNOLOGY: SYSTEM ADMINISTRATOR – AS DEGREE AND CERTIFICATE**

- Students will demonstrate knowledge of client and server operating systems.
- Students will demonstrate basic knowledge of the cybersecurity principles of confidentiality, integrity, and availability (CIA).
- Students will apply critical-thinking and problem-solving skills in a computer system environment.
- Students will demonstrate knowledge of the architectural principles of on-premise, cloud, and hybrid computer networks in a business environment.

#### **COMPUTER INFORMATION TECHNOLOGY: MICROCOMPUTER SPECIALIST – CERTIFICATE**

- Students will demonstrate basic computer literacy including input/output devices and Microsoft Office suite of applications.
- Students will demonstrate advanced knowledge of spreadsheet and word processing applications as utilized in the business environment.
- Students will apply critical thinking and problem-solving skills required by employers and four-year universities in a professional office environment.

#### **COMPUTER SCIENCE – AS-T DEGREE**

- Students will demonstrate an ability to use math, physics, and logic for solving problems in technology.

- Students will complete lower division courses for transfer to a CSU or other four-year institution.
- Students will design and write usable and effective computer programs using a highlevel language.

#### **COMPUTERIZED ACCOUNTING SYSTEMS – CERTIFICATE**

- Students will gain competencies that will lead to success working as an accounting clerk utilizing computerized accounting systems.
- Students will utilize a sequence of courses with industry-advised curriculum input that will lead to improvement of entry level skills and abilities of future employees.
- Students will identify career ladder opportunities in the accounting industry.
- Students will demonstrate an understanding of how to utilize different functions of the accounting software package by generating accounting reports and interpreting the resulting information.
- Students will record and analyze accounts receivable, accounts payable, invoicing, payroll, inventory, and project costing transactions using QuickBooks software.
- Students will complete the accounting cycle using the QuickBooks software.
- Students will prepare GAAP – required financial statements.
- Students will demonstrate an understanding of financial analysis using reports generated from the accounting software.

#### **INCOME TAX PREPARER – CERTIFICATE OF SKILL PROFICIENCY**

- Students will analyze and explain the federal and California state tax structures as they apply to individuals and small businesses.
- Students will prepare federal and state income tax returns for individuals and small business.
- Students will gather, identify, examine, sort, and classify information required for filing individual income tax returns.
- Students will apply basic tax law and determine filing requirements for actual tax returns.
- Students will use TaxWise software to accurately file individual federal and state income tax returns within the scope of the VITA program.
- Students will develop a system of quality control for the tax preparation process. • Students will communicate effectively with taxpayers when explaining tax return results.

#### **INTERNATIONAL BUSINESS – AS DEGREE AND CERTIFICATE**

- Students will strengthen their skills to present a thorough review of the potential benefits, costs, and risks of doing business abroad and how the political, economic, and legal systems of countries vary.
- Students will analyze management ethical issues and cultural sensitivities in global business.
- Students will apply integrated marketing strategies with customers, partners, and regulators in the global marketplace.
- Students will describe international trade processes and the functions of the foreign exchange market.

#### **LOGISTICS MANAGEMENT – AS DEGREE**

- Student will know the role and historical development of supply chain management and integrated logistics functions.
- Students will know the relationship between operations, warehousing, distribution centers, and materials management.

- Students will know the importance of sound inventory management principles.
- Students will contribute to process improvement projects.

#### **LOGISTICS MANAGEMENT – CERTIFICATE**

- Students will know the role and historical development of supply chain management and integrated logistics functions.
- Students will know the relationship between operations, warehousing, distribution centers, and materials management.
- Students will know the importance of sound inventory management principles.
- Students will contribute to process improvement projects.

#### **MANAGEMENT & SUPERVISION – AS DEGREE**

- Students will identify the concepts of organizational design and behavior of organizations at the supervisory level.
- Students will describe how technology and globalization affect the supervisor's job.
- Students will describe the term "360-degree appraisal" and apply the appropriate methods of motivation in an organizational setting.
- Students will explain the effect of workforce diversity on motivating employees.

#### **MANAGEMENT & SUPERVISION – CERTIFICATE**

- Students will identify the concepts of organizational design and behavior of organizations at the supervisory level. Students will describe how technology and globalization affect the supervisor's job.
- Students will describe the term "360-degree appraisal" and apply the appropriate methods of motivation in an organizational setting.
- Students will explain the effect of workforce diversity on motivating employees.

#### **RETAIL MANAGEMENT – CERTIFICATE**

- Students will explain the challenges and opportunities of managing a diverse workforce in a retail environment through their understanding of leadership and management models, motivation and reward theory, and conflict resolution techniques.
- Students will demonstrate their knowledge of financial management and budgeting by applying basic math skills to calculate retail math equations; making business decisions using these calculations; and preparing proforma financial statements.
- Students will demonstrate proper communication and critical thinking skills through written and oral assignments. Skill sets demonstrated will include document editing, preparation of business reports, and proper use of the communication process.

#### **SMALL BUSINESS/ENTREPRENEURIALISM – AS DEGREE**

- Students will develop an effective business plan by using guerrilla marketing strategies and basic financial statements.
- Students will distinguish between the debt vs. equity finance options.
- Students will explain the essential importance of cash flow planning for small business operations.
- Students will use break-even analysis to evaluate a marketing plan.

#### **SMALL BUSINESS/ENTREPRENEURIALISM – CERTIFICATE**

- Students will develop an effective business plan by using guerrilla marketing strategies and basic financial statements.
- Students will distinguish between the debt vs. equity finance options.
- Students will explain the essential importance of cash flow planning for small business operations.
- Students will use break-even analysis to evaluate marketing plan.

### **Career and Technical Education Division**

#### **ALTERNATIVE ENERGY TECHNOLOGY – AS DEGREE**

- The skills developed during classes will enhance students' ability to complete the North American Board of Certified Energy Practitioners (NABCEP) and to become a specialist in the Solar Photovoltaic industry.
- The Degree will prepare students for transfer and/ or entry-level employment as an alternative energy technician within the renewable energy/green technology field.
- Students will have the knowledge and skills necessary to install residential and commercial solar and wind power systems.
- Students will know and understand green building design principles and also have the skills to successfully perform residential and commercial/industrial energy audits.

#### **ALTERNATIVE ENERGY TECHNOLOGY – CERTIFICATE**

- The skills developed during classes will enhance students' ability to complete the North American Board of Certified Energy Practitioners (NABCEP) and to become a specialist in the solar photovoltaic industry.
- The certificate will prepare an individual for entry-level employment as an alternative energy technician within the renewable energy/green technology field.
- Students will have the knowledge and skills necessary to install residential and commercial solar and wind power systems.

#### **ALTERNATIVE FUELS AND ADVANCED TRANSPORTATION TECHNOLOGY – AS DEGREE**

- Students will access legal rules and regulations from a variety of resources (state and federal), providing the opportunity to acquire the knowledge and hand skills demanded of modern transportation specialists.
- Students will be able to describe and demonstrate simulated on-the-job conditions regarding the nine congressional alternative fuel sources.
- Students who complete the career path cartographically examine and assemble information for a target audience who might use the alternative fuel types.
- Regardless of career path (private, government, or fleet) the Alternative Fuels AS degree or CoA student obtains transferable credit to a university and points towards qualifying as a certified CSA Fuel Tank Inspector.
- Students will be able to pass the safety requirements with complete knowledge of NFPA, CSA, CGA 6.4, and OSHA standards.

#### **ALTERNATIVE FUELS AND ADVANCED TRANSPORTATION TECHNOLOGY – CERTIFICATE**



- Students who complete the career path cartographically examine and assemble information for a target audience who might use the alternative fuel types.
- Regardless of career path (private, government, or fleet) the Alternative Fuels AS Degree or CoA student obtains transferable credit to a university and points towards qualifying as a certified CSA Fuel Tank Inspector.
- Students are capable of describing applications in all nine alternative fuel areas (compressed, liquid, generated electrical, and biodiesel).
- Students will access legal rules and regulations from a variety of resources (state and federal), providing the opportunity to acquire the knowledge and hand skills demanded of modern transportation specialists.
- Students will be able to pass the safety requirements with complete knowledge of NFPA, CSA, CGA 6.4, and OSHA standards.

#### **ARCHITECTURAL DESIGN AND DRAWING – AS DEGREE**

- Given various visual communication technologies, such as traditional drafting, CADD, and BIM (Building Information Modeling); industry standards such as AIA and AEC (Architectural, Engineering and Construction); graphic standards and the building code, students will effectively communicate graphically, and understand and interpret design concepts and criteria for various disciplines related to the AEC industry.
- Students will be prepared for industry employment and advancement within a variety of related AEC professions.
- Students will be prepared to transfer to advanced fields of study in related occupations.

#### **ARCHITECTURAL DESIGN AND DRAWING TECHNICIAN – CERTIFICATE**

- Given various visual communication technologies, such as traditional drafting, CADD, and BIM (Building Information Modeling); industry standards such as AIA and AEC (Architectural, Engineering and Construction); graphic standards and the building code, students will effectively communicate graphically, and understand and interpret design concepts and criteria for various disciplines related to the AEC industry.
- Students will be prepared for industry employment and advancement within a variety of related AEC professions.

#### **ARCHITECTURE – AS DEGREE**

- Given various visual communication technologies, such as traditional drafting, sketching, CADD, BIM (Building Information Modeling); perspective drawing, and threedimensional model development; industry standards such as AIA and AEC (Architectural, Engineering and Construction); graphic standards, and the building code, students will effectively understand, communicate, and interpret design concepts and criteria for various disciplines related to the AEC industry.
- Students will be prepared to transfer to advanced fields of study in architecture-related occupations.

#### **AUTOMOTIVE GENERAL SERVICE TECHNICIAN – CERTIFICATE**

- Students will work safely and identify safety and health hazards in an automotive service and repair facility.

- Students will communicate effectively, both verbally and through the written word, in an automotive service and repair environment.
- Students will properly use and care for automotive service and repair tools and equipment.
- Students will research, read, and use automotive service and repair literature, both in print and in electronic format.
- Students will identify, analyze, and evaluate general automotive service and repair issues to determine concern, cause, and correction.

#### **AUTOMOTIVE TECHNOLOGY – AS DEGREE**

- Students will work safely and identify safety and health hazards in an automotive service and repair facility.
- Students will be able to communicate effectively, both verbally and through the written word, in an automotive service and repair environment.
- Students will be able to properly use and care for automotive service and repair tools and equipment.
- Students will research, read, and use automotive service and repair literature, both in print and in electronic format.
- Students will identify, analyze, and evaluate specific automotive service and repair issues to determine concern, cause, and correction.

#### **CARPENTRY: CONCRETE FORMING – AS DEGREE**

- Students will accurately perform tests to confirm concrete quality.
- Students will demonstrate journey-level skills, including those skills necessary to build all concrete infrastructures.
- Students will correctly interpret building codes, plans, and specifications as they apply to the trade.
- Students will place and finish concrete in a professional manner.
- Students will cut, patch, maintain, and repair concrete structures.
- Students will perform assigned tasks in accordance with established industry quality and production standards.

#### **CARPENTRY: CONCRETE FORMING – CERTIFICATE**

- Students will demonstrate journey-level skills, including those skills necessary to build all concrete infrastructures.
- Students will successfully measure, cut, and shape wood, plastic, and other building materials.
- Students will erect, level, and install building framework including walls, floors, and doorframes.
- Students will perform assigned tasks in accordance with established industry quality and production standards.

#### **CARPENTRY: GENERAL – AS DEGREE**

- Students will accurately utilize industry-specific nomenclature of the craft in written or oral communication.
- Students will safely operate and maintain tools and equipment of the trade.
- Students will demonstrate the ability to interpret project plans, utilize software and technology, and determine appropriate construction methods and building techniques.
- Students will assess suitability (i.e., type, size, and grade) of materials and hardware to accurately determine materials lists for a given application.
- Students will apply the proper construction sequence and building codes for a given application.
- Students will analyze building flaws, provide solutions, and take corrective measures.

### **CARPENTRY: GENERAL – CERTIFICATE**

- Students will accurately utilize industry-specific nomenclature of the craft in written or oral communication.
- Students will demonstrate a working knowledge of core equipment, safety, and installation procedures within the carpentry field.
- Students will demonstrate the ability to interpret project plans, utilize software and technology, and determine the appropriate construction methods and building techniques.
- Students will accurately perform basic, trade-related installations and maintenance.

### **CARPENTRY: SCAFFOLD CONSTRUCTION – AS DEGREE**

- Students will accurately utilize industry-specific nomenclature of the craft in written or oral communication.
- Students will safely operate and maintain tools and equipment of the trade.
- Students will demonstrate the ability to interpret project plans, utilize software and technology, and determine appropriate construction methods and scaffolding techniques.
- Students will assess appropriateness of scaffold type, size, accessories, component parts, and hardware; and determine materials lists and staging for a given application.
- Students will apply the proper assembly/disassembly sequence and follow manufacturers' load charts and safety code requirements for a given application.
- Students will analyze potential design flaws and overloading to provide solutions and take corrective measures.

### **CARPENTRY: SCAFFOLD CONSTRUCTION – CERTIFICATE**

- Students will accurately utilize industry-specific nomenclature of the craft in written or oral communication.
- Students will identify and explain the types and importance of scaffolding in general construction.
- Students will be able to safely and correctly erect and dismantle various scaffolding systems.
- Students will demonstrate the ability to interpret project plans, utilize software and technology, and determine appropriate construction methods and scaffolding techniques.

### **CIVIL DESIGN & DRAWING – CERTIFICATE**

- Given various visual communication technologies, such as traditional drafting and CADD; and industry standards, such as AEC Graphic Standards, students will effectively communicate, understand, and interpret design concepts and criteria for the civil engineering field.
- Students will be prepared for industry employment and advancement within a variety of related professions, such as civil engineering, construction engineering, structural engineering, transportation engineering, and geotechnical engineering.

### **CIVIL DESIGN TECHNOLOGY – AS DEGREE**

- Given various visual communication technologies, such as traditional drafting and CADD; and industry standards, such as AEC Graphic Standards, students will effectively communicate, understand, and interpret design concepts and criteria for the civil engineering field.
- Students will be prepared for industry employment and advancement within a variety of related professions, such as civil engineering, construction engineering, structural

engineering, transportation engineering, and geotechnical engineering.

- Students will be prepared to transfer to advanced fields of study in related occupations.

### **CIVIL DESIGN TECHNOLOGY – CERTIFICATE**

- Given various visual communication technologies, such as traditional drafting and CADD; and industry standards, such as AEC Graphic Standards, students will be able to effectively communicate, understand, and interpret design concepts and criteria for the civil engineering field.
- Students will be prepared for industry employment and advancement within a variety of related professions, such as civil engineering, construction engineering, structural engineering, transportation engineering, and geotechnical engineering.

### **CONSTRUCTION ENGINEERING MANAGEMENT – AS DEGREE**

- Students will demonstrate a knowledge of the various documents typically included in a set of construction documents for civil engineering projects, including plans, notes, details, and specifications.
- Students will demonstrate the ability to prepare basic construction documents for buildings and other similar construction projects in accordance with building, planning, and related codes.
- Students will demonstrate a broad knowledge of the numerous yet related subdisciplines within the field of civil engineering and show familiarity with typical basic tasks as accomplished by licensed civil engineers within those subdisciplines.
- Students will use experience with statistical methods and apply basic cost accounting concepts to proposed construction projects for bidding and other financial considerations.
- Students will exhibit a knowledge of typical construction materials used in development projects including wood, steel, and concrete. Such knowledge will include specifying, mixing, sampling, and testing of concrete for buildings and similar construction projects.
- Students will exhibit a knowledge of engineering statics as it relates to the design and construction of buildings and related constructs.

### **ELECTRONIC TECHNOLOGY – AS DEGREE**

- Students will be able to become specialists in the applied electronics industry.
- Students will be prepared for transfer and/or entry-level employment as electronics technicians.

### **ELECTRONIC TECHNOLOGY – CERTIFICATE**

- Students training in theory and practical skills will demonstrate the necessary requirements for preparation as electronics technicians.
- Student will acquire the knowledge and hands-on skills demanded of modern electronics technicians.
- Students will have the knowledge and skills necessary to gain entry-level employment in the applied electronics industry.

### **ENGINEERING DESIGN DRAFTING – AS DEGREE**

- Given various visual communication technologies, such as traditional drafting and CADD; and industry standards such as ANSI/ASME and ISO, students will effectively communicate,

understand, and interpret design concepts and criteria for industries that design, engineer and manufacture products.

- Students will be prepared for industry employment and advancement within a variety of related professions.
- Students will be prepared to transfer to advanced fields of study in related occupations.

#### **ENGINEERING DESIGN DRAFTING TECHNICIAN – CERTIFICATE**

- Given various visual communication technologies, such as traditional drafting and CADD; and industry standards such as ANSI/ASME and ISO, students will effectively communicate, understand, and interpret design concepts and criteria for industries that design, engineer, and manufacture products.
- Students will be prepared for industry employment and advancement within a variety of related professions.

#### **GEOGRAPHIC INFORMATION SYSTEMS – CERTIFICATE**

- Students will describe and discuss the applications of geographic information systems (GIS) in their respective field. Students will use GIS to analyze and uncover spatial patterns and trends, model environmental conditions, and predict future scenarios, (e.g., post-fire conditions, or to model suitable locations for a new housing or wind farm development).
- Students will evaluate relevance of information for GIS projects and contribute new data from a variety of sources, including Global Positioning Systems (GPS).
- Students will cartographically examine and assemble information for a target audience.

#### **HEAVY EQUIPMENT DIESEL ENGINE TECHNICIAN – CERTIFICATE**

- When given a heavy machine, students will carry out an engine performance test and determine if it operates as intended.
- When given a heavy machine, students will safely service and repair a malfunctioning engine subsystem using manufacturer's procedures while observing OSHA's shop and personal safety requirements.
- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with the industry standards.

#### **HEAVY EQUIPMENT ELECTRONICS TECHNICIAN – CERTIFICATE**

- When given a heavy machine, students will carry out an electrical and/or a heating, ventilation, and air conditioning performance test and determine if these systems operate as intended.
- When given a heavy machine, students will safely service and repair a malfunctioning electrical and/ or heating, ventilation, and air conditioning system using manufacturer's procedures while observing OSHA's shop and personal safety requirements.
- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with the industry standards.

#### **HEAVY EQUIPMENT GENERAL SERVICE TECHNICIAN – CERTIFICATE**

- When given a heavy machine, students will carry out a performance test and determine if all systems operate as intended.

- When given a heavy machine, students will safely perform periodic maintenance and minor repairs using machine-specific lube charts and repair procedures while observing OSHA's shop and personal safety requirements.
- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with the industry standards.

#### **HEAVY EQUIPMENT HYDRAULICS TECHNICIAN – CERTIFICATE**

- When given a heavy machine, students will carry out a hydraulic system performance test and determine if it operates as intended.
- When given a heavy machine, students will safely service and repair a hydraulic subsystem using manufacturer's procedures while observing OSHA's shop and personal safety requirements.
- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with the industry standards.

#### **HEAVY EQUIPMENT MAINTENANCE TECHNICIAN – CERTIFICATE**

- When given a heavy machine, students will carry out a machine performance test and determine if all systems operate as intended.
- When given a heavy machine, students will carry out electrical performance tests and determine if the electrical system operates as intended.
- When given a heavy machine, students will carry out hydraulic performance tests and determine if the hydraulic system operates as intended.
- When given a heavy machine, students will carry out powertrain performance tests and determine if the powertrain system operates as intended.
- When given a heavy machine, students will carry out engine performance tests and determine if the engine operates as intended.
- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with industry standards.

#### **HEAVY EQUIPMENT POWERTRAINS TECHNICIAN – CERTIFICATE**

- When given a heavy machine, students will carry out a powertrain performance test and determine if it operates as intended.
- When given a heavy machine, students will safely service and repair a powertrain subsystem using manufacturer's procedures while observing OSHA's shop and personal safety requirements.
- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with the industry standards.

#### **HEAVY EQUIPMENT SERVICE TECHNICIAN – CERTIFICATE**

- When given a heavy machine, students will carry out a performance test and determine if all systems operate as intended.
- When given a heavy machine, the student will be able to troubleshoot the root cause of a malfunctioning system and determine the best course of action.
- When given a heavy machine, students will safely service and repair a malfunctioning system using manufacturer's



procedures while observing OSHA's shop and personal safety requirements.

- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with the industry standards.

### **HEAVY EQUIPMENT TECHNOLOGY – AS DEGREE**

- When given a heavy machine, students will carry out a performance test and determine if all systems operate as intended.
- When given a heavy machine, students will troubleshoot the root cause of a malfunctioning system and determine the best course of action.
- When given a heavy machine, students will safely service and repair a malfunctioning system using manufacturer's procedures while observing OSHA's shop and personal safety requirements.
- When given a heavy machine, students will document all service events and communicate them to the interested parties in accordance with the industry standards.

### **HONDA PROFESSIONAL CAREER TRAINING PROGRAM SPECIALIZATION (PACT) – AS DEGREE**

- The skills developed during classes will enhance students' ability to complete the (ASE) Automotive Service Excellence Certification Tests A-1 through A-8, Automotive Technician, and to become a specialist for Honda/Acura vehicles.
- The degree is designed to prepare students for transfer and/or entry-level employment as an Automotive Technician within a Honda/ Acura Dealer.

### **SURVEYING, MAPPING AND DRAWING – CERTIFICATE**

- Given instruction in both the theory and practice of land surveying, instruction in various visual communication technologies such as traditional drafting and CADD, and industry standards, students will effectively collect, develop, map, communicate, understand, and interpret geospatial data.
- Students will be prepared for industry employment and advancement within a variety of related professions, such as land surveying, civil engineering, construction engineering, transportation engineering, and geotechnical engineering.

### **WELDING TECHNOLOGY – CERTIFICATE**

- Students will work safely and identify safety and health hazards in the workplace.
- Student will communicate effectively, both verbally and through the written word, in a welding environment.
- Students will properly use, operate, and care for welding materials, tools, and equipment.
- Students will research, read, and use welding material, build sheets, blueprints, and other welding-related literature, both in print and in electronic format.
- Students will identify, analyze, evaluate, and demonstrate different welding operations and processes.

## **Communications and Languages Division**

### **AMERICAN SIGN LANGUAGE: AMERICAN SIGN LANGUAGES (ASL) – CERTIFICATE**

- Students will be able to communicate in ASL with community members outside of the classroom.

- Students will be able to interact in a culturally appropriate manner with members of the Deaf community.
- Students will demonstrate confidence in communicating with ASL.

### **AMERICAN SIGN LANGUAGE: DEAF STUDIES – AA DEGREE**

- Students will demonstrate a high level confidence in communicating using ASL in all environments.
- Students will have an in-depth knowledge of the Deaf culture and community, and will be able to apply this knowledge in social, professional, and academic settings.
- Students will meet the entrance expectations for a bachelor degree in Deaf studies in fields such as Deaf education.

### **AMERICAN SIGN LANGUAGE: FOUNDATIONS OF INTERPRETING – AA DEGREE**

- Students will possess a strong foundation in the skills needed to provide ASL/English interpreting
- Students will meet the entrance expectations for a bachelor degree in ASL/English interpreting at a 4-year university.
- Students will possess the necessary, industry-specific business skills to work as a professional interpreter after mastering the interpreting skill set.

### **COMMUNICATION STUDIES – AA-T DEGREE**

- Students will identify conflict management strategies in an interpersonal relationship context.
- Students will deliver a coherent speech inclusive of a distinctive introduction, body, and conclusion, as well as 2-3 substantive main points within the body and appropriate transitions.
- Students will control/manage their verbal and nonverbal communication to enhance the audience's understanding and appreciation of the speech message appropriate to the specific audience.
- Students will argue in favor of a thesis with a supportive example and refute an opposing position with an accompanying example.
- Students will think critically in order to construct a debate position, including the debater's reasoning.

### **CREATIVE WRITING: CREATIVE WRITING – CERTIFICATE**

- Students will identify, analyze, and evaluate creative forms of writing including the novel, short story, poetry, adolescent literature, screenwriting, and playwriting.
- Students will brainstorm, draft, revise, and produce their own pieces of nonfiction and fiction to final completion.
- Students will employ critical thinking skills, research strategies, revision techniques, and correct grammar and usage in the development of their own writing.

### **CREATIVE WRITING: NOVEL WRITING – CERTIFICATE**

- Students will identify, analyze, and evaluate creative forms of writing with an emphasis on the novel and how it is distinguished as a literary genre in regards to narrative structure, point of view, character development, setting, theme, style, imagery, and symbolism.
- Students will brainstorm, draft, revise, and produce their own pieces of nonfiction and fiction to final completion.
- Students will employ critical thinking skills, research strategies, revision techniques, and correct grammar and usage in the development of their own writing.

### **CREATIVE WRITING: PLAYWRITING AND SCREENWRITING – CERTIFICATE**

- Students will identify, analyze, and evaluate creative genres of writing with an emphasis on playwriting and screenwriting.
- Students will brainstorm, draft, revise, and produce their own pieces of nonfiction and fiction to final completion.
- Students will employ critical thinking skills, research strategies, revision techniques, and correct grammar and usage in the development of their own writing.

### **CREATIVE WRITING: POETRY WRITING – CERTIFICATE**

- Students will identify, analyze, and evaluate creative forms of writing with an emphasis on poetry as a literary genre, including techniques of sound, tropes and figurative language, and thematic development.
- Students will brainstorm, draft, revise, and produce their own pieces of nonfiction and fiction to final completion.
- Students will employ critical thinking skills, research strategies, revision techniques, and correct grammar and usage in the development of their own writing.

### **CREATIVE WRITING: SHORT STORY WRITING – CERTIFICATE**

- Students will identify, analyze, and evaluate creative forms of writing with an emphasis on the short story to increase appreciation, understanding, and enjoyment of authors' various forms and techniques.
- Students will brainstorm, draft, revise, and produce their own pieces of nonfiction and fiction to final completion.
- Students will employ critical thinking skills, research strategies, revision techniques, and correct grammar and usage in the development of their own writing.

### **CREATIVE WRITING: WRITING FOR CHILDREN – CERTIFICATE**

- Students will identify, analyze, and evaluate creative genres of writing with an emphasis on children's literature from ancient times to the present, and examine the historical and cultural environments in which this literature was written.
- Students will brainstorm, draft, revise, and produce their own pieces of nonfiction and fiction to final completion.
- Students will employ critical thinking skills, research strategies, revision techniques, and correct grammar and usage in the development of their own writing.

### **ENGLISH & LITERATURE – AA DEGREE**

- Students will formulate an argument and support it with relevant evidence.
- Students will communicate ideas in an organized, logical manner.
- Students will incorporate quoted or paraphrased material from credible outside sources.
- Students will document sources using a designated citation format.
- Students will identify the work of significant writers, literary works, and cultural movements from a variety of diverse communities.
- Students will interpret a selection in light of the significant social and historical factors that inform the text.
- Students will explicate a selection using rhetorical textual analysis.

- Students will apply standard English grammar and mechanics in both written and oral communication.

### **MASS COMMUNICATIONS: MASS MEDIA – AS DEGREE**

- Students will identify the evolution of Mass Media in books, magazines, television, newspapers, radio, motion pictures, the internet, blogs, twitter, cell phones, and computer use in the world today.
- Students will write a news story that demonstrates effective interviewing and note-taking techniques.
- Students will take press photos, print the photos, and prepare the composition of the photos for publication.
- Students will write a news story of a particular length that can be produced on the air for an allotted time slot.

### **MASS COMMUNICATIONS: MASS MEDIA – CERTIFICATE**

- Students will identify the broad area of the history, theory, aesthetic principles, and techniques used in motion pictures.
- Students will take press photos, print the photos, and prepare the composition of the photos for publication.
- Students will write a news story of a particular length that can be produced on the air for an allotted time slot.
- Students demonstrate knowledge of the broad area of the history, theory, aesthetic principles, and techniques used in motion pictures.

### **MASS COMMUNICATIONS: PRINT MEDIA – AS DEGREE**

- Students gather information, write, and edit copy for use in the print school newspaper that demonstrates an understanding of the rights and responsibilities of the student press to the community it serves.
- Students gather information, write, and edit copy for use in the print school newspaper that demonstrates an understanding of the rights and responsibilities of the student press to the community it serves. Students will write a general interest article or story to be published in the college magazine for a student audience.
- Students will take press photos, print the photos, and prepare the composition of the photos for publication.

### **MASS COMMUNICATIONS: PRINT MEDIA – CERTIFICATE**

- Students will gather information, write, and edit copy for use in the print school newspaper that demonstrates an understanding of the rights and responsibilities of the student press to the community it serves.
- Student will be able to gather information, write, and edit copy for use in the print school newspaper that demonstrates an understanding of the rights and responsibilities of the student press to the community it serves.
- Students will be able to write a general interest article or story to be published in the college magazine for a student audience.
- Students will take press photos, print the photos, and prepare the composition of the photos for publication.
- Students will write a news story that demonstrates effective interviewing and note-taking techniques.

### **SPANISH – AA-T DEGREE**

- Using critical thinking skills, students will speak fluently and comprehend at the intermediate level commensurate with the grammar and vocabulary of that level, and demonstrate increased knowledge and appreciation of the Spanish language, literature, and culture.

- Students will write dialogues, letters, reports, summaries, and essays on various topics using correct grammar, syntax, punctuation, capitalization, and diacritical marks.
- Students will read, discuss and analyze literary selections in Spanish that vary in style, from simple journalist writing to highly original and complex literary works.

## Health Science & Nursing Division

### NURSING – AS DEGREE

- Students will be able to engage in legal and ethical nursing practice that is patient-centered and culturally appropriate for individuals, families, and communities.
- Students will be able to integrate principles of quality improvement and safety into nursing practice within healthcare organization and systems.
- Students will be able to utilize evidence-based practice in providing nursing care to patients across the lifespan.
- Students will demonstrate leadership behaviors that influence individuals and groups in the delivery of nursing care.
- Students will be able to communicate effectively and collaboratively with the healthcare team, patient, family, and community in the delivery of nursing care.
- Students will be able to utilize technologies for the management of information and the delivery of patient care.
- Students will fulfill the education requirements needed to take the NCLEX-RN (National Licensing Exam to become a registered nurse in California).

### VOCATIONAL NURSING – AS DEGREE

- Students will incorporate the medical model utilizing all aspects of the nursing process with successful completion of all theory objectives and clinical objectives in all courses of the vocational nursing program.
- Students will be prepared and have a successful pass rate on national vocational nursing exam.
- Students will complete all general education (GE) requirements for AS degree in vocational nursing.
- Students will integrate the simulated clinical experience to enhance clinical performance in all clinical areas.

### VOCATIONAL NURSING – CERTIFICATE

- Students will integrate the simulated clinical experience to enhance clinical performance in all clinical areas.
- Students will be prepared and have a successful pass rate on national vocational nursing exam.
- Students will incorporate the medical model utilizing all aspects of the nursing process with successful completion of all theory objectives and clinical objectives in all courses of the vocational nursing program.

## Kinesiology, Dance, and Athletics Division

### ATHLETIC TRAINER'S AIDE – CERTIFICATE

- Students will conduct a primary and secondary survey following an injury and make emergency treatment decisions based on results.
- Students will treat a variety of open wounds as a first responder, recognizing the use of personal protective equipment.
- Students will apply appropriate splinting and taping techniques for a variety of injuries using a variety of medical supplies.

- Students will identify the indications, contraindications, and application techniques for the use of several therapeutic modalities.

### COACHING OF SPORTS – CERTIFICATE

- Students will understand the various demands required to be successful in the coaching field.
- Students will be prepared to complete coaching certifications for the American Sports Education Program (ASEP) and California Interscholastic Federation (CIF) test for employment.
- Students will be exposed to the physical, technical, tactical, psychological, and social elements within sports.
- Students will understand the different types of workouts and diets required by the population with which they are working.
- Students will understand the importance of administration, fundraising, communication, team building, and defining success in the coaching environment.

### COMMUNITY HEALTH WORKER – CERTIFICATE

- In a health education lecture, articulate the application of health and wellness principles to health conditions and special populations.
- Value individual differences in needs and goals in developing health and wellness plans.
- As a role model for health, be able to develop a personal vision and philosophy towards lifelong wellness.
- For professional development, Seek opportunities for lifelong learning, enhancement of the six dimensions of wellness.
- Using technology for video creating, demonstrate knowledge by educating community members in principles of health and wellness.
- In an emergency, understand basic procedures and situational awareness.

### DANCE – AA DEGREE

- When in rehearsal, students will demonstrate best practice methods of training and rehearsal in preparation for performance.
- In performance, students will successfully perform on stage or in class showings.
- When shown live or recorded dance performances, students will critically analyze dance material by its salient qualities of body, effort, space, and shape and recognize predominant cultural and historical forces and figures in dance.
- When presented with a choreographic or improvisational problem, students will be able to create dance material with choreographic components of Laban Movement Analysis and understanding of contemporary dance production practices.

### DANCE – CERTIFICATE

- Given a real-life teaching scenario, students will analyze the learning environment and student population, design an appropriate dance class, and lead students in a wellorganized, safe, and engaging dance class.
- Students will perform successfully on stage or in class showings.
- When shown live or recorded dance performances, students will analyze dance material critically by utilizing the Laban/ Bartenieff movement analysis categories of Body, Effort, Space, and Shape (BESS); and to recognize forces and figures in dance.
- When presented with a choreographic or improvisational problem, students will be able to create dance material using choreographic components from the Laban/ Bartenieff

movement analysis categories of Body, Effort, Space, and Shape, and which demonstrates understanding of dance production.

#### **FITNESS SPECIALIST – CERTIFICATE**

- Students will analyze individual health and fitness levels and create individual exercise programs.
- Students will apply and demonstrate exercise testing skills and techniques to real world situations, such as individual client fitness assessments.
- Students will adapt to diverse populations and fitness levels and have an awareness of special needs individuals.
- Students will apply fitness concepts, definitions, and principles to personal training, group fitness instructions, or health and fitness settings.
- Students will have a career in the personal training or fitness instructor field, or transfer to a 4-year institution, within 3 years.

#### **FITNESS AND SPORT MANAGEMENT – CERTIFICATE**

- Students will be able to analyze and organize fitness and sport management and operations; and to communicate effectively, both written and verbally, in professional fitness and sport settings.
- Students will be able to demonstrate sensitivity to a multicultural community, including related social issues; and skills in leadership, communication, collaboration, and managing personnel.
- Students will be able to demonstrate a professional understanding of the legal aspects of sport and ethics and apply those principles to managing fitness and sport businesses.
- Students will be able to achieve academic and practical foundations with the ultimate goal of employment in the fitness and/or sport management industries.

#### **KINESIOLOGY – AA-T DEGREE**

- Students will understand different types of exercise programs and diets and their relationship to their fitness and wellness.
- Students will explain methods and techniques used to promote cardiovascular fitness.
- Students will understand the role of diet and exercise in controlling chronic health problems.

#### **STRENGTH AND PERFORMANCE COACH – CERTIFICATE**

- In the strength lab, apply knowledge and understand exercise science principles and terminology.
- With specific athletic populations, demonstrate proficiency in fitness, nutritional, and functional movement assessments of individuals.
- Through video and in-person observation, understand the unique movements associated with skill development and performance in various sports.
- For a performance athlete, design science-based exercise programs for both injury prevention and performance enhancement.
- Develop performance-based group exercise routines to meet the needs various sport and tactical athletes.
- Using the latest technology and software programs, input and analyze exercise performance data.

#### **YOGA TEACHER TRAINING – CERTIFICATE**

- Students will demonstrate and explain the anatomical alignment points and physiological benefits of key poses in each category of hatha yoga asana/postures: standing/balancing poses, forward bends, backbends, and inversions.
- Students will demonstrate and explain the form and functions of four basic yogic breath control techniques; diaphragmatic breath, ujjayi breath, nadi shodana and breath of fire.
- Students will demonstrate and explain the form and function of four basic meditation techniques used in hatha yoga; following the breath, visualization, loving kindness and mantra meditation.
- Students will design and teach a beginning hatha yoga class and utilize best practices for cueing, assisting and giving adjustments.
- Students will summarize the history and contemporary context of hatha yoga. Include the ethics of yoga in Patanjali's "Yoga Sutras" and how this can be implemented in the contemporary student-teacher relationship.

### **Mathematics, Sciences, and Engineering Division**

#### **BIOLOGY – AS DEGREE**

- Students will develop the ability to evaluate scientific information critically, using analytical reasoning and quantitative skills.
- Students will strengthen their skills in reading, writing, oral communication, and critical thinking.
- Students will demonstrate knowledge in three major subdisciplines of biology: cellular and molecular biology, organismal biology, and ecology and evolution
- Students will understand and use scientific methodology.

#### **BIOLOGY: HEALTH SCIENCE PREPARATION – CERTIFICATE**

- Students will demonstrate knowledge in the three prehealth science disciplines: human anatomy, microbiology, and human physiology.
- Students will be aligned to transition to programs in the health sciences and nursing.

#### **BIOTECHNOLOGY – CERTIFICATE**

- Students will apply biotechnological concepts, standards, and skills in appropriate industrial applications.
- Students will acquire the ability to work as a team to meet the needs of the biotechnology industry.

#### **ENVIRONMENTAL SCIENCE – AS DEGREE**

- Students will apply environmental science concepts and analytical procedures in various fields.
- Students will have the ability to apply economic principles to analyze environmental problems.
- Students will have the ability to work as a member of an interdisciplinary team to solve environmental problems.
- Students will strengthen their skills in reading, writing, oral communication, and critical thinking.

#### **ENVIRONMENTAL TECHNOLOGY – AS DEGREE**

- Students will identify the types of environmental, health, and safety hazards that may be encountered in the environmental field.



## **ENVIRONMENTAL TECHNOLOGY – CERTIFICATE**

- Students will identify the types of environmental, health, and safety hazards that may be encountered in the environmental field.

## **GENERAL STUDIES: SCIENCE & MATHEMATICS – AS DEGREE**

- Students will critique and interpret data presented in appropriate graphical and/or verbal formats.
- Students will evaluate the strengths and limitations of scientific models employed to describe a particular phenomenon.

## **MATHEMATICS – AS-T DEGREE**

- Students will analyze a given scenario and apply an appropriate problem-solving approach to explain and/or find a solution.
- Students will create, interpret, and analyze graphical representations of data and/or equations and inequalities.
- Students will use appropriate technology to solve mathematical problems and/or interpret data, and judge the reasonableness of their results

## **Public Safety Division**

### **ADMINISTRATION OF JUSTICE – AS DEGREE**

- Students will apply legal definitions, concepts, and principles to law enforcement, courts, or correctional settings.
- Students will communicate information in a clear and organized manner.
- Students will analyze ethical dilemmas encountered in the law enforcement and/or corrections fields and decide on the correct ethical choice.
- Students will apply constitutional, statutory, procedural, and case law to real-life criminal justice situations.
- Students will adapt to the diverse and multicultural nature of American society in the criminal justice setting.
- Students will use the degree or certificate as a platform for a career in the criminal justice field or further study at a 4-year institution.

### **CORRECTIONS – AS DEGREE**

- Students will apply legal definitions, concepts, and principles to law enforcement, courts, or correctional settings.
- Students will communicate information in a clear and organized manner.
- Students will analyze ethical dilemmas encountered in the law enforcement and/or corrections fields and decide on the correct ethical choice.
- Students will apply constitutional, statutory, procedural, and case law to real-life criminal justice situations.
- Students will adapt to the diverse and multicultural nature of American society in the criminal justice setting.
- Students will use the degree or certificate as a platform for a career in the criminal justice field or further study at a four-year institution.

### **EMERGENCY MEDICAL TECHNICIAN – CERTIFICATE**

- Students will apply concepts related to the entire spectrum of EMS care including: airway, ventilation, oxygenation, trauma; cardiology, medical, and EMS operations

- Students will competently perform patient assessment (medical and trauma) psychomotor skills.
- Students will competently perform upper airway adjuncts and suctioning psychomotor skills.
- Students will competently perform oxygen and bagvalve- mask (apneic patient) psychomotor skills.
- Students will competently perform cardiac arrest management and AED psychomotor skills.
- Students will competently perform bleeding control and shock psychomotor skills.
- Students will competently perform spinal immobilization psychomotor skills.
- Students will competently perform fracture and dislocation immobilization psychomotor skills
- Students will competently perform pre-hospital childbirth psychomotor skills.

### **FIRE TECHNOLOGY – AS DEGREE**

- Students will identify minimum qualifications and entrylevel skills for firefighter hiring; describe the following elements: application process, written exam process, physical agility exam, oral interview, chief's interview, background investigation, and firefighter probationary process and identify fire service history, culture, and diversity.
- Students will identify and comprehend laws, regulations, codes, and standards that influence fire department operations and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
- Students will analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
- Students will calculate flow requirements for fire apparatus, diagram a pump and plumbing schematic for fire apparatus, and apply mathematic formulae to hydraulics problems.
- Students will identify and describe the apparatus used in the fire service and the equipment and maintenance of fire apparatus and equipment.
- Students will identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety.
- Students will differentiate between fire detection and fire suppression systems; design and diagram a wet and dry fire protection system; and identify alarm system components and their operations.
- Students will demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety, including: size-up, report-on conditions, Incident Command System, RECEO, 10 Standard Firefighting Orders, 18 situations that shout "Watch Out," and common factors associated with injuries and line-of-duty deaths.

### **FIRE TECHNOLOGY – CERTIFICATE**

- Students will identify minimum qualifications and entrylevel skills for firefighter hiring; describe the following elements: application process, written exam process, physical agility exam, oral interview, chief's interview, background investigation, and firefighter probationary process; and identify fire service history, culture, and diversity.
- Students will identify and comprehend laws, regulations, codes, and standards that influence fire department operations and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention,

building codes and ordinances, and firefighter health and safety.

- Students will analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
- Students will calculate flow requirements for fire apparatus, diagram a pump and plumbing schematic for fire apparatus, and apply mathematic formulae to hydraulics problems.
- Students will identify and describe the apparatus used in the fire service and the equipment and maintenance of fire apparatus and equipment. (Elective.)
- Students will identify and describe common types of fire suppression systems (four basic types).
- Students will demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety, including: size-up, report-on conditions, Incident Command System, RECEO, 10 Standard Firefighting Orders, 18 situations that shout "Watch Out," and common factors associated with injuries and line-of-duty deaths.

#### **HOMELAND SECURITY – AS DEGREE AND CERTIFICATE**

- Students will analyze and interpret homeland security data and theories.
- Students will apply cross-disciplinary methods of analysis.
- Students will demonstrate an understanding of homeland security information.

#### **BASIC FIRE ACADEMY – CERTIFICATE**

- Students will utilize a self-contained breathing apparatus and conduct live fire training in a flashover environment.
- Students will demonstrate proper and safe usage of a 24-foot extension ladder and climb and work on the ladder in given training scenario.
- Students will demonstrate proper hose evolution techniques in a safe and proficient manner.
- Students will don all personal protective equipment within a 60-second time frame with no errors.
- Students will demonstrate wildland fire line construction in a safe and proficient manner.
- Students will demonstrate the safe operation of the jaws of life while performing auto extrication on a vehicle such as a car, van, or truck.

#### **BASIC POLICE ACADEMY – CERTIFICATE**

- Students will apply the definitions of local, state, and federal legal statutes as well as constitutional principles addressed in the California Commission's Peace Officer Standards and Training (POST) Learning Domains as they relate to law enforcement work.
- Given realistic scenario scripts, students will demonstrate proficiency in handling situations that involve a variety of law enforcement-related incidents common in the day-to-day duties of a police officer.
- Students will analyze situations that involve ethical dilemmas encountered in law enforcement, and determine what the correct ethical choice should be in each case.
- Students will correctly demonstrate self-defense skills and tactics in a safe and proficient manner.
- Students will demonstrate firearms skills and tactics in a safety and proficient manner.
- Students will demonstrate emergency vehicle operations and tactics in a safety and proficient manner.

- Students will utilize the concepts and tenets associated with the use of procedural justice.
- Students will access a given situation and prepare an accurate and complete arrest report that meets the requirements of law enforcement agencies.
- Students will use the certificate as a platform for a career as a peace officer.

#### **INTENSIVE MODULAR BASIC POLICE ACADEMY – CERTIFICATE**

- Students will apply the definitions of local, state, and federal legal statutes as well as constitutional principles addressed in the California Commission's Peace Officer Standards and Training (POST) Learning Domains as they relate to law enforcement work.
- Given realistic scenario scripts, students will demonstrate proficiency in handling situations that involve a variety of law enforcement-related incidents common in the day-to-day duties of a police officer.
- Students will analyze situations that involve ethical dilemmas encountered in law enforcement, and determine what the correct ethical choice should be in each case.
- Students will correctly demonstrate self-defense skills and tactics in a safe and proficient manner.
- Students will demonstrate firearms skills and tactics in a safety and proficient manner.
- Students will demonstrate emergency vehicle operations and tactics in a safety and proficient manner.
- Students will utilize the concepts and tenets associated with the use of procedural justice.
- Students will access a given situation and prepare an accurate and complete arrest report that meets the requirements of law enforcement agencies.
- Students will use the certificate as a platform for a career as a peace officer.

#### **BASIC POLICE TRAINING – CERTIFICATE**

- Students will apply the definitions, concepts, statutes, and constitutional principles covered in the POST Learning Domains to law enforcement work.
- Given scripted scenarios, students will demonstrate proficiency in handling situations involving a variety of law enforcement related incidents.
- Students will analyze ethical dilemmas encountered in law enforcement and decide on the correct ethical choice.
- Students will demonstrate self-defense skills in a safe and proficient manner.
- Students will demonstrate firearms skills in a safe and proficient manner.
- Students will demonstrate emergency vehicle operations in a safe and proficient manner.
- Students will prepare an accurate and complete arrest report that meets the requirements of law enforcement agencies.
- Students will use the certificate as a platform for a career as a peace officer.

#### **WILDLAND FIRE TECHNOLOGY – AS DEGREE**

- Students will assess impacts of fuel, weather, and topography on wildland fire behavior.
- Students will recognize and avoid the four common denominators of wildland fire fatalities.
- Given a wildland fire scenario, students will prepare an incident briefing based on factors of fuel, weather, topography, and man-made hazards.

- Students will demonstrate the three components of wildland fire prevention, including education, engineering, and enforcement.
- Students will make an operation shift plan that includes the following information: people in charge, operational objectives, resources, supplies necessary to meet the objectives, area map, weather forecasting, and safety briefing using standardized ICS forms.

#### **WILDLAND FIRE TECHNOLOGY – CERTIFICATE**

- Students will safely manipulate wildland fire tools, including shovel, Pulaski, and McLeod.
- Students will recall the ten Standard Firefighting Orders.
- Students will deploy a fire shelter.
- Students will demonstrate proper use of the following tools and equipment: back pump, fuses, and backfire torch.
- Students will function within an Incident Command System environment.
- Students will assess impacts of fuel, weather, and topography on wildland fire behavior.
- Assess impacts of fuel, weather, and topography on wildland fire behavior.

### **Student Learning Outcomes (SLOs) – General Education**

General Education Student Learning Outcomes (SLOs) represent the knowledge, skills, and/or abilities that students should demonstrate upon completion of the general education requirements.

#### **Humanities**

- Students will critique artistic works, evaluating elements relevant to the given work (e.g., texture, form, timbre, color, conflict, rhythm, etc.) and how these are effectively integrated in the work as a whole.
- Students will create or perform artistic works and critically evaluate their efforts.
- Students will interpret, analyze, and critique diverse literary texts by means of critical reading, classroom discussion, and composition.
- Students will perform tasks that are meaningful, personalized, and/or culturally relevant or appropriate in the target language. (Foreign language humanities outcome.)
- Given oral questions, written prompts, and/or reading selections, students will demonstrate productive and receptive skills in the target language. (Foreign language humanities outcome.)
- Mathematics
- Given the description of a real-world problem, students will construct correct equations and/or inequalities to represent the problem and determine the correct solution or set of solutions.
- Students will critique and interpret data presented in appropriate graphical and/or verbal formats.
- Students will effectively employ calculators, computers, and other relevant technology in solving mathematical problems.

#### **Natural Sciences**

- Students evaluate quantitative and/or qualitative data and develop a reasonable hypothesis based on these results.
- Presented with an argument promoting a particular hypothesis, students will critique the stated assertions and access whether or not the given hypothesis may be valid.
- Students will utilize appropriate scientific apparatus to obtain quantitative and/or qualitative data and correctly document the resulting measurements.
- Given a problem of scientific interest, students will develop and execute a procedure to investigate the problem.
- Students will evaluate the strengths and limitations of scientific models employed to describe a particular phenomenon.

#### **Kinesiology**

- Students will develop and demonstrate an understanding of the role of diet and exercise in controlling chronic health problems.
- Students will critique their particular situation in relation to the principles of health, fitness and wellness.
- Students will explain methods and techniques used to promote cardiovascular fitness.
- Students will compare and contrast different types of exercise programs and diets and their relationship to their fitness and wellness.

#### **Reading and Written/Oral Expression**

- Students will analyze academic or literary texts to discern meaning.
- Students will summarize main ideas from academic or literary texts.
- Students will support an argument with evidence.
- Students will organize ideas coherently.
- Students will evaluate the reliability of both print and electronic (research) sources and use them effectively.
- Using a conventional citation format, students will document both print and electronic sources.
- Students will vary or employ appropriate tone in conveying ideas.
- Students will use standard English grammar and mechanics.

#### **Social and Behavioral Sciences**

- Students will recognize the basic vocabulary and concepts of at least one social or behavioral science discipline verbally or in writing.
- Students will compare and contrast social institutions and processes across a range of historical periods and cultures.
- Students will recognize and explain the methods.



# 12 Courses of Instruction

## Course Numbering System

<b>1-039</b>	Non-degree Credit Courses
<b>040-099</b>	Degree Applicable Non-Transfer Courses
<b>100-290*</b>	Degree Applicable and Transfer level courses
<b>299</b>	Directed Studies
<b>300-499</b>	Upper Division Courses

\*Courses numbered 100 and above are usually university parallel courses and are offered for transfer to colleges and universities. See course descriptions for any restrictions on transfer.

\*\*FAC and PAC 4300 Series are non-transferable.

### Code for Transferability of Courses

Where applicable, transferability of listed courses is designated by boldface symbols:

UC - Transfers to all University of California campuses and to most other four-year colleges.

UC (Credit Limit - See Counselor) - Transfers to all University of California campuses and to most other four-year colleges, but there are limitations to the number of units that can be accepted for credit. The student should consult a counselor for details.

CSU - Transfers to all campuses of the California State University system and to many other four-year colleges.

## COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to [www.assist.org](http://www.assist.org) to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Counselors can always help students interpret or explain this information.

If a Río Hondo College course has been approved for C-ID, you will find the corresponding C-ID number next to the course prefix and number within the course descriptions on the chart that follows. More courses may have been approved for C-ID since the publication of this catalog.

***More courses may have been approved for C-ID since the publication of this catalog.  
You can also see C-ID approvals for Río Hondo College at C-ID.net.***

C-ID Descriptor	RHC Course(s)	Course Title
ACCT 110	ACCT 101	Financial Accounting
ACCT 110	ACCT 101H	Financial Accounting Honors
ACCT 120	ACCT 102	Managerial Accounting
ACCT 120	ACCT 102H	Managerial Accounting Honors
ADS 110X	PSY 121	Drugs, Society, and Behavior
ADS 120X	HUSR 130	Essential Counseling Skills
ADS 130X	HUSR 122	Introduction to Group Leadership and Process
ADS 140X	PSY 127	Introduction to the Psychological Effects of Drugs of Abuse
ADS 150X	HUSR 118	Chemical Dependency: Intervention, Treatment, and Recovery
ADS 170X	HUSR 124	Introduction to Case Management and Documentation
ADS 180X	HUSR 126	Counseling the Family of the Addicted Person
AJ 110	AJ 101	Introduction to Administration of Justice
AJ 120	AJ 106	Criminal Law I
AJ 122	AJ 102	Criminal Procedures
AJ 124	AJ 104	Legal Aspects of Evidence
AJ 140	AJ 208	Principles of Investigation
AJ 150	AJ 275	Introduction to Forensic Science

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
AJ 160	AJ 105	Community Relations/Multicultural Issues Within Public Service
AJ 200	CORR 101	Introduction to Corrections
AJ 220	AJ 207	Juvenile Law and Procedure
ALTF 100X	AUTO 147	Introduction to Hybrid and Electric Vehicle Technology
ANTH 110	ANTH 101	Introduction to Physical Anthropology
ANTH 110	ANTH 101H	Introduction to Physical Anthropology Honors
ANTH 115L	ANTH 101L	Physical Anthropology Lab
ANTH 120	ANTH 102	Introduction to Cultural Anthropology
ANTH 120	ANTH 102H	Introduction to Cultural Anthropology Honors
ANTH 130	ANTH 104	Introduction to Language and Culture
ANTH 150	ANTH 103	Introduction to Archaeology
ARTH 100	ART 110	Understanding Visual Art
ARTH 110	ART 105	Survey of Western Art: Prehistory through the Middle Ages
ARTH 110	ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors
ARTH 120	ART 106	Survey of Western Art: Renaissance to Contemporary
ARTH 120	ART 106H	Survey of Western Art: Renaissance to Contemporary Honors
ARTH 130	ART 107	The Art of Asia
ARTH 145	ART 104	Art of the Ancient Americas
ARTH 150	ART 112	Visual Art in the Modern Era
ARTS 100	ART 120	Two-Dimensional Design
ARTS 101	ART 121	Three-Dimensional Design
ARTS 110	ART 130	Freehand Drawing I
ARTS 200	ART 230	Beginning Life Drawing
ARTS 205	ART 131	Freehand Drawing II
ARTS 210	ART 135	Beginning Painting
ARTS 250	ART 170	Introduction to Digital Painting
ARTS 250	GDSN 178	Digital Imaging Design
ARTS 270	ART 124	Color Theory
AUTO 110X	AUTO 107	Introduction to Automotive Light Service
AUTO 120X	AUTO 230	Automatic Transmission/Transaxle

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
AUTO 140X	AUTO 200	Suspension, Steering, and Alignment Service
AUTO 150X	AUTO 210	Automotive Braking Systems
AUTO 170X	AUTO 240	Heating and Air Conditioning
BIOL 110B	BIOL 125	Human Anatomy
BIOL 120B	BIOL 226	Human Physiology
BIOL 135S	BIOL 200, BIOL 201	Principles of Biology 1 (Molecular and Cellular Biology) Principles of Biology 2 (Diversity and Ecology)
BIOL 190	BIOL 200	Principles of Biology 1 (Molecular and Cellular Biology)
BUS 110	MGMT 101	Introduction to Business
BUS 115	MGMT 208	Business Communications
BUS 120	BUSL 110	Legal Environment of Business
BUS 125	BUSL 220	Business Law
BUS 140	CIT 101	Introduction to Computer Information Technology
CDEV 100	CD 106	Child Growth and Development
CDEV 110	CD 208	Child, Family and Community
CHEM 101	CHEM 120	Introduction to Chemistry
CHEM 110	CHEM 130	General Chemistry I
CHEM 120S	CHEM 130, CHEM 140	General Chemistry I General Chemistry II
CHEM 150	CHEM 230	Organic Chemistry I
CHEM 160S	CHEM 230, CHEM 231	Organic Chemistry I Organic Chemistry II
CMUS 100X	MUST 101	Introduction to Music Technology
CMUS 110X	MUS 165	Electronic Music I
CMUS 110X	MUST 121	Electronic Music I
CMUS 120X	MUST 145	Live Sound Reinforcement I
CMUS 130X	MUST 141	Recording Studio I
CMUS 140X	MUST 105	Introduction to the Music Business
CMUS 150X	MUST 115	Songwriting and Arranging I
COMM 110	SPCH 101	Public Speaking
COMM 110	SPCH 101H	Public Speaking Honors
COMM 120	SPCH 140	Argumentation and Debate
COMM 120	SPCH 240	Argumentation and Discussion

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
COMM 130	SPCH 100	Interpersonal Communication
COMM 150	SPCH 150	Intercultural Communications
COMM 160B	SPCH 110	Forensics: Speech and Debate Team
COMM 170	SPCH 130	Oral Interpretation
COMM 190	SPCH 240	Argumentation and Discussion
COMP 122	CIT 127	Python Programming I
COMP 132	CIT 128	Python Programming II
COMP 142	CS 142	Computer Architecture and Organization
COMP 152	CS 152	Discrete Structures
ECE 120	CD 110	Principles and Practices of Early Childhood Education
ECE 130	CD 111	Early Childhood Education Curriculum
ECE 200	CD 114	Observation and Assessment
ECE 210	CD 228	Early Childhood Education Practicum
ECE 220	CD 102	Nutrition, Health and Safety for Children
ECE 230	CD 224	Diversity Issues During Early Childhood, School Age and Adolescence
ECON 201	ECON 102	Principles of Microeconomics
ECON 201	ECON 102H	Principles of Microeconomics Honors
ECON 202	ECON 101	Principles of Macroeconomics
ECON 202	ECON 101H	Principles of Macroeconomics Honors
EDUC 200	ED 110	Introduction to Teaching
ENGL 100	ENGL 101	College Composition and Research
ENGL 105	ENGL 201	Advanced Composition and Critical Thinking
ENGL 105	ENGL 201H	Advanced Composition and Critical Thinking Honors
ENGL 120	LIT 102	Approaches to Literature
ENGL 120	LIT 102H	Approaches to Literature Honors
ENGL 130	LIT 112A	American Literature through 1865
ENGL 130	LIT 112AH	American Literature through 1865 Honors
ENGL 135	LIT 112B	American Literature after 1865
ENGL 135	LIT 112BH	American Literature after 1865 Honors
ENGL 140	LIT 144A	World Literature: Antiquity through the 16th Century

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
ENGL 140	LIT 144AH	World Literature: Antiquity through the 16th Century Honors
ENGL 145	LIT 144B	World Literature: 16th Century to Present
ENGL 145	LIT 144BH	World Literature: 16th Century to Present Honors
ENGL 160	LIT 146A	British Literature through 1785
ENGL 160	LIT 146AH	British Literature through 1785 Honors
ENGL 165	LIT 146B	British Literature after 1785
ENGL 165	LIT 146BH	British Literature after 1785 Honors
ENGL 180	LIT 114H	Children's and Adolescent Literature Honors
ENGL 180	LIT 114	Children's and Adolescent Literature
ENGL 200	ENGL 131	Creative Writing
ENGR 110	ENGR 100	Introduction to Engineering
ENGR 110	ENGT 100	Introduction to Engineering
ENGR 140	ENGR 141	Materials Science and Engineering
ENGR 140L	ENGR 141L	Materials Science and Engineering Lab
ENGR 140B	ENGR 140	Materials Science and Engineering
ENGR 220	ENGR 212	Computational Methods in MATLAB/Octave
ENGR 230	ENGR 245	Engineering Mechanics: Dynamics
ENGR 260	ENGR 217	Electric Circuit Analysis
ENGR 260L	ENGR 217L	Electric Circuit Analysis Lab
ENVS 100	BIOL 120	Environmental Biology
FTVE 105	ART 115	The Art of Film
GEOG 110	GEOG 101	Introduction to Physical Geography
GEOG 111	GEOG 101L	Introduction to Physical Geography Laboratory
GEOG 120	GEOG 102	Introduction to Cultural Geography
GEOG 125	GEOG 103	World Regional Geography
GEOL 100	GEOL 150	Physical Geology
GEOL 100L	GEOL 151	Physical Geology Laboratory
GEOL 110	GEOL 152	Historical Geology
GEOL 110L	GEOL 152L	Historical Geology Lab
HIST 130	HIST 143	History of the United States to 1877

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
HIST 130	HIST 143H	History of the United States to 1877 Honors
HIST 140	HIST 144	History of the United States Since 1865
HIST 140	HIST 144H	History of the United States Since 1865 Honors
HIST 150	HIST 101	History of World Civilization to the 17th Century
HIST 160	HIST 102	History of World Civilization, 1500 to the Present
HOSP 100	HOSP 101	Introduction to the Hospitality Industry
HOSP 110	HOSP 103	Sanitation and Safety
HOSP 130	HOSP 104	Introduction to Food and Beverage Management
HOSP 140	HOSP 102	Introduction to Hotel Operations
HOSP 150	HOSP 201	Hospitality Law
ITIS 110	CIT 180	PC Maintenance – A+ Certification
ITIS 120	CIT 101	Introduction to Computer Information Technology
ITIS 130	CIT 111	Introduction to Programming
ITIS 140	CIT 200	Systems Analysis and Design
ITIS 150	CIT 210	Cisco Networking I
ITIS 150	CIT 171	Network+
ITIS 151	CIT 214	Cisco Networking II
ITIS 155	CIT 170	Server +
ITIS 160	CIT 192	Security +
ITIS 164	CIT 221	Ethical Hacking
ITIS 180	CIT 172	Database Essentials in Amazon Web Services
JOUR 100	MSCM 128	Mass Media in Modern Society
JOUR 110	JOUR 120	Communications Reporting and Writing
JOUR 130	JOUR 241	Newspaper Production I
JOUR 130	JOUR 242	Digital Newspaper Production I
JOUR 131	JOUR 243	Newspaper Production II
JOUR 131	JOUR 244	Digital Newspaper Production II
KIN 100	KIN 194	Introduction to Kinesiology
KIN 101	KIN 193	Standard First Aid and CPR
MATH 110	PSY 190	Statistics for the Behavioral Sciences



<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
MATH 110	MATH 130	Statistics
MATH 110	MATH 130H	Statistics Honors
MATH 120	MATH 140	Mathematics for Elementary Teachers
MATH 140	MATH 170	Elements of Calculus
MATH 150	MATH 160	College Algebra
MATH 155	MATH 180	Pre-Calculus
MATH 210	MATH 190	Calculus I
MATH 210	MATH 190H	Calculus I Honors
MATH 220	MATH 191	Calculus II
MATH 230	MATH 250	Calculus III
MATH 240	MATH 270	Differential Equations
MATH 250	MATH 260	Linear Algebra
MATH 851	MATH 175	Plane Trigonometry
MATH 900S	MATH 190 MATH 191	Calculus I and Calculus II
MATH 900S	MATH 190H MATH 191	Calculus I Honors and Calculus II
MATH 910S	MATH 251	Linear Algebra and Differential Equations
MUS 100	MUS 133	Music Appreciation
MUS 110	MUS 101	Fundamentals of Music
MUS 120	MUS 103	Music Theory I
MUS 125	MUS 106	Musicianship I
MUS 130	MUS 104	Music Theory II
MUS 135	MUS 107	Musicianship II
MUS 140	MUS 105	Music Theory III
MUS 145	MUS 156	Musicianship III
MUS 150	MUS 206	Music Theory IV
MUS 155	MUS 157	Musicianship IV
MUS 160	MUS 181	Applied Music
MUS 170	MUS 145	Piano I
MUS 171	MUS 146	Piano II
MUS 172	MUS 147	Piano III

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
MUS 180	MUS 120	Concert Choir I
MUS 180	MUS 234	Advanced Chamber Singers
MUS 185	MUS 116	Diverse Instruments Ensemble
MUS 185	MUS 216	Industrial Orchestra
NUTR 110	NUTR 110	Introduction to Nutrition Science
NUTR 120	NUTR 120	Principles of Foods with Lab
PHIL 100	PHIL 101	Introduction to Philosophy
PHIL 100	PHIL 101H	Introduction to Philosophy Honors
PHIL 110	PHIL 112	Introduction to Logic
PHIL 110	PHIL 112H	Introduction to Logic Honors
PHIL 120	PHIL 120	Introduction to Ethics
PHIL 130	PHIL 124	History of Philosophy: Ancient
PHIL 140	PHIL 126	History of Philosophy: Modern
PHIL 210	PHIL 115	Symbolic Logic
PHYS 100S	PHY 150 PHY 160	General Physics I and General Physics II
PHYS 105	PHY 150	General Physics I
PHYS 110	PHY 160	General Physics II
PHYS 200S	PHY 211, PHY 212, PHY 213	Physics for Scientists and Engineers I, II, and II
PHYS 205	PHY 211	Physics for Scientists and Engineers I
PHYS 210	PHY 213	Physics for Scientists and Engineers III
PHYS 215	PHY 212	Physics for Scientists and Engineers II
POLS 110	POLS 110	Government of the United States
POLS 110	POLS 110H	Government of the United States Honors
POLS 120	PHIL 128	Introduction to Political Philosophy
POLS 120	PHIL 128H	Introduction to Political Philosophy Honors
POLS 120	POLS 128	Introduction to Political Philosophy
POLS 120	POLS 128H	Introduction to Political Philosophy Honors
POLS 130	POLS 130	Comparative Government
POLS 140	POLS 140	International Relations
PSY 110	PSY 101	Introductory Psychology

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
PSY 110	PSY 101H	Introductory Psychology Honors
PSY 120	PSY 114	Introduction to Abnormal Psychology
PSY 150	PSY 210	Biological Psychology
PSY 150	PSY 210H	Biological Psychology Honors
PSY 180	PSY 112	Lifespan Development
PSY 200	PSY 200	Research Methods in Psychology
SJS 110	EGSS 110	Introduction to Ethnic Studies
SJS 120	EGSS 120	Introduction to Women's Studies
SJS 130	EGSS 130	Introduction to LGBTQ+ Studies
SOCI 110	SOC 101	Introduction to Sociology
SOCI 110	SOC 101H	Introduction to Sociology Honors
SOCI 115	SOC 102	Major Social Problems
SOCI 125	PSY 190	Statistics for the Behavioral Sciences
SOCI 130	SOC 114	Marriage, Family and Intimate Relations
SOCI 140	SOC 120	Perspectives of Sex & Gender
SOCI 150	SOC 116	Introduction to Race and Ethnic Relations
SOCI 160	SOC 127	Introduction to Criminology
SPAN 100	SPAN 101	Spanish I
SPAN 100	SPAN 101S	Spanish for Spanish Speakers I
SPAN 110	SPAN 102	Spanish II
SPAN 110	SPAN 102S	Spanish for Spanish Speakers II
SPAN 200	SPAN 201	Spanish III
SPAN 200	SPAN 201H	Spanish III Honors
SPAN 210	SPAN 202	Spanish IV
THTR 111	THTR 101	Theatre Arts Appreciation
THTR 112	THTR 101	Theatre Arts Appreciation
THTR 113	THTR 105	The History and Development of the Theatre
THTR 113	THTR 105H	The History and Development of the Theatre Honors
THTR 151	THTR 110	Principles of Acting
THTR 152	THTR 111	Principles of Acting

<b>C-ID Descriptor</b>	<b>RHC Course(s)</b>	<b>Course Title</b>
THTR 171	THTR 150	Stagecraft I for Theatre, TV, and Film
THTR 173	THTR 153	Lighting Design and Production for Theatre, TV, and Film
THTR 174	THTR 174	Costume Design and Production for Theatre, TV, and Film
THTR 175	THTR 176	Makeup Design and Production for Theatre, TV, and Film
THTR 191	THTR 170	Theatre Rehearsal and Performance
THTR 191	THTR 171	Musical Theatre Rehearsal and Production
THTR 192	THTR 159	Stage Crew Activity

***More courses may have been approved for C-ID since the publication of this catalog.  
You can also see C-ID approvals for Río Hondo College at C-ID.net.***

## COURSE SCHEDULE FREQUENCY

This chart lists active courses that are regularly taught. For active courses not on this list, please contact the appropriate division office to inquire about specific course scheduling.

Subject	Course	Fall	Spring	Summer
ACCT	100	X	X	X
ACCT	101	X	X	X
ACCT	101H	X		
ACCT	102	X	X	X
ACCT	103	X	X	
ACCT	104		X	
ACCT	105	X		
ACCT	106	X	X	
ACCT	107		X	
ACCT	108		X	
ACCT	109		X	
ACCT	110		X	
ACCT	203		X	
ACCT	290	X	X	
ADN	075		X	
ADN	150	X		
ADN	150L	X		
ADN	151		X	X
ADN	151L		X	X
ADN	154	X		
ADN	155		X	
ADN	155L		X	
ADN	156		X	
ADN	156L		X	
ADN	250	X		
ADN	251	X		
ADN	251L	X		
ADN	252	X		
ADN	252L	X		
ADN	253		X	
ADN	253L		X	
ADN	254		X	
ADN	254L		X	
AET/ET	120		X	
AET/ET	121		X	
AET/ET	122	X		
AET/ET	123	X		
AET/ET	124		X	
AET/ET	125	X		
AET/ET	126		X	
AET/ET	181	X		
AET/ET	182		X	
AET/ET	299	X	X	
AJ	041	X	X	

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
AJ	101	X	X	X
AJ	102	X	X	X
AJ	104	X	X	X
AJ	105	X	X	X
AJ	106	X	X	X
AJ	107	X	X	X
AJ	207	X	X	
AJ	208	X	X	
AJ	215	X	X	
AJ	228	X	X	
AJ	275	X	X	X
ANIM	101	X	X	X
ANIM	105	X	X	
ANIM	110	X	X	
ANIM	120	X	X	
ANIM	130	X	X	
ANIM	133	X	X	
ANIM	134	X	X	
ANIM	135	X	X	
ANTH	101	X	X	X
ANTH	101H	X		
ANTH	101L	X	X	X
ANTH	102	X	X	X
ANTH	102H		X	
ANTH	103	X	X	
ANTH	104	X	X	
ANTH	110	X	X	X
ANTH	115			X
ANTH	125	X	X	X
ARCH	110		X	
ARCH	115	X	X	
ARCH	125		X	
ARCH	215	X		
ARCH	225	X		
ARCH	235	X		
ARCH	236	X		
ARCH	260	X	X	
ARCH	261	X	X	
ARCH	280		X	
ART	101	X	X	X
ART	105	X	X	
ART	106	X	X	
ART	108	X	X	X
ART	110	X	X	
ART	115	X	X	
ART	120	X	X	X
ART	121	X	X	
ART	124		X	
ART	130	X	X	

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
ART	131	X	X	
ART	135	X	X	X
ART	136	X	X	X
ART	140	X	X	X
ART	141	X	X	X
ART	142	X	X	
ART	143	X	X	
ART	144	X	X	
ART	145	X	X	
ART	170	X	X	
ART	230	X	X	
ART	231	X	X	
ART	232	X	X	
ART	233	X	X	
ART	234	X	X	
ART	235	X	X	
ART	236	X	X	
ART	242	X	X	
ASL	101	X	X	X
ASL	102	X	X	X
ASL	120	Even Years Only		
ASL	124		Odd Years Only	
ASL	201	X	X	
ASL	202	X	X	
ASL	211	Odd Years Only		
ASL	212	Odd Years Only		
ASL	220		Even Years Only	
ASL	250	Odd Years Only		
ASL	270		Even Years Only	
ASL	280		Even Years Only	
ASTR	110	X	X	X
ASTR	110H	X	X	
ASTR	112	X	X	X
AUTO	065		X	
AUTO	101	X	X	X
AUTO	102			X
AUTO	103	X	X	X
AUTO	106	X	X	X
AUTO	107	X	X	X
AUTO	130	X		
AUTO	135		X	
AUTO	140	X	X	
AUTO	141	X		
AUTO	142		X	
AUTO	143	X		
AUTO	147	X		
AUTO	150	X		
AUTO	157	X	X	
AUTO	160	X		



<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
AUTO	200	X		
AUTO	201	X		
AUTO	210		X	
AUTO	220		X	
AUTO	230	X		
AUTO	260		X	
AUTO	266	X		
AUTO	290	X	X	
AUTO	299	X	X	
AUTO	300		X	
AUTO	310		X	
AUTO	320	X		
AUTO	340	X		
AUTO	350		X	
AUTO	360	X		
AUTO	390	X	X	
AUTO	400	X		
AUTO	410		X	
AUTO	420	X		
AUTO	440	X		
AUTO	450		X	
AUTO	499	X	X	
BIOL	101	X	X	X
BIOL	105	X	X	X
BIOL	105L	X	X	X
BIOL	111	X	X	
BIOL	111L	X	X	
BIOL	120	X	X	X
BIOL	120L	X	X	X
BIOL	125	X	X	X
BIOL	200	X	X	
BIOL	201	X	X	
BIOL	206		X	
BIOL	222	X	X	
BIOL	226	X	X	X
BUSL	110	X	X	X
CD	102	X	X	X
CD	103		X	
CD	106	X	X	X
CD	110	X	X	X
CD	111	X	X	X
CD	114	X	X	X
CD	115		X	
CD	118		X	
CD	119	X		
CD	120	X		
CD	208		X	X
CD	211	X	X	
CD	213	X	X	

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
CD	224	X	X	X
CD	226	X	X	X
CD	228	X	X	X
CD	229		X	
CD	232		X	
CHEM	110	X	X	X
CHEM	120	X	X	X
CHEM	130	X	X	X
CHEM	140	X	X	
CHEM	230	X	X	
CHEM	231	X	X	
CHIN	101	X	X	
CHST	101	X	X	X
CHST	146	X	X	X
CHST	148	X	X	
CHST	150	X	X	
CIT	101	X	X	X
CIT	111	X	X	X
CIT	117		X	
CIT	119	X		
CIT	125	X	X	X
CIT	126	X	X	
CIT	127	X	X	X
CIT	128	X	X	
CIT	130	X		
CIT	131		X	
CIT	133		X	
CIT	135	X	X	X
CIT	136	X	X	
CIT	139		X	
CIT	140		X	
CIT	160	X		
CIT	170		X	
CIT	171		X	
CIT	172		X	
CIT	173	X		
CIT	174	X		
CIT	175		X	
CIT	180	X	X	
CIT	192			X
CIT	200	X		
CIT	210	X	X	
CIT	221	X		
CIV	140	X	X	
CIV	142	X	X	
CIV	143		X	
CORR	101	X	X	X
CORR	104	X	X	X
CORR	106	X		X

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
CORR	134	X	X	
CORR	235		X	X
COUN	100			X
COUN	101	X	X	X
COUN	102	X	X	
COUN	103	X	X	
COUN	104	X	X	
COUN	105		X	
COUN	151	X	X	X
CS	142	X		
CS	152		X	
DANC	114	X	X	
DANC	151		X	
DANC	153	X	X	
DANC	154		X	
DANC	157	X	X	
DANC	159		X	
DANC	179	X	X	
DANC	180	X	X	
DANC	199	X	X	
DANC	199H		X	
DANC	251		X	
DANC	253	X	X	
DANC	254		X	
ECON	101	X	X	X
ECON	101H	X		
ECON	102	X	X	X
ECON	102H		X	
ECON	135	X		
ED	110	X	X	X
EDEV	021	X	X	
EDEV	021L	X	X	
EDEV	030	X	X	
EDEV	030W	X	X	
EDEV	033A,B	X	X	
EDEV	134	X	X	
EDEV	151	X	X	
EGSS	110	X	X	X
EGSS	130		X	
ELEC	050		X	
ELEC	100	X	X	
ELEC	101	X		
ELEC	102		X	
ELEC	108	X		
ELEC	109	X		
ELEC	211		X	
ELEC	299	X	X	
EMT	093	X	X	X
EMT	100	X	X	X

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
EMT	290	X	X	X
ENGL	010S	X	X	X
ENGL	010SP	X	X	X
ENGL	101	X	X	X
ENGL	125	X	X	
ENGL	127		Odd Years Only	
ENGL	127H		Odd Years Only	
ENGL	131	X	X	X
ENGL	201	X	X	X
ENGL	201H	X	X	X
ENGL	325			X
ENGR	100	X	X	
ENGR	212	X	X	
ENGR	217			X
ENGR	217L			X
ENGR	235		X	
ENGR	245	X		
ENGT	100	X		
ENGT	101	X	X	
ENGT	105	X	X	
ENGT	122	X	X	
ENGT	131	X		
ENGT	150	X	X	X
ENGT	170	X	X	
ENGT	200		X	
ENGT	231		X	
ENGT	250		X	
ENGT	270	X		
ENGT	280		X	
ENLA	034	X	X	
ENLA	100	X	X	
ET/AET	120	X		
ET/AET	121	X		
ET/AET	122		X	
ET/AET	123	X		
ET/AET	124		X	
ET/AET	181	X		
ET/AET	182		X	
ET/AET	280		X	
ET	130	X		
ET	150		X	
ET	230		X	
ET	250			X
ET	251			X
ET	260	X		
ET	270		X	
ET	271	X		
ET	272		X	
ET	273	X		

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
ET	274		X	
ET	275		X	
ET	276	X		
ET	290	X	X	X
FIN	101	X	X	X
FR	101	X	X	X
FR	102	X	X	X
FR	201	X	X	X
FR	202	X	X	
FTEC	044	X	X	X
FTEC	045	X		
FTEC	101	X	X	X
FTEC	102	X	X	X
FTEC	103	X	X	X
FTEC	104	X	X	X
FTEC	105	X	X	X
FTEC	106	X	X	X
FTEC	107	X	X	
FTEC	108		X	
FTEC	150		X	X
FTEC	290	X	X	X
GDSN	110			X
GDSN	150	X	X	
GDSN	151	X	X	
GDSN	162	X	X	
GDSN	163	X	X	
GDSN	164	X	X	X
GDSN	165	X	X	
GDSN	172	X	X	
GDSN	174	X	X	
GDSN	178	X	X	X
GDSN	179	X	X	
GEOG	101	X	X	X
GEOG	101L	X	X	X
GEOG	102	X	X	X
GEOG	103		X	
GEOL	150	X	X	X
GEOL	151	X	X	X
GIS	120	X	X	X
GIS	130			X
GIS	150	X	X	
GIS	220	X	X	
GIS	221	X	X	
GIS	222	X		
GIS	230	X	X	
GIS	280	X	X	
GIS	281	X	X	
GIS	290	X	X	
GIS	299	X	X	

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
HET	061	X		
HET	101		X	
HET	106		X	
HET	107		X	
HET	121	X	X	
HET	122	X	X	
HET	123	X		
HET	124	X		
HET	125			X
HET	290	X	X	X
HIST	101	X	X	X
HIST	102	X	X	X
HIST	122		X	
HIST	131		X	
HIST	143	X	X	X
HIST	143H	X		
HIST	144	X	X	X
HIST	144H		X	
HIST	156	X		
HIST	157		X	
HIST	158	X	X	
HIST	159	X		
HIST	167	X	X	X
HIST	170	X	X	
HIST	325		X	
HMLD	102	X	X	X
HMLD	103	X	X	X
HMLD	104	X	X	
HMLD	105	X	X	
HMLD	200	X		X
HMLD	203		X	
HMLD	205	X		
HOSP	101	X	X	
HOSP	102	X	X	
HOSP	104		X	
HOSP	201	X		
HS	045	X	X	
HS	050	X	X	
HS	050L	X	X	
HS	051	X	X	
HS	051L	X	X	
HS	052	X	X	
HS	052L	X	X	
HS	060	X	X	X
HUM	110	X	X	X
HUM	111	X	X	X
HUM	125	X	X	X
HUM	125H	X		
HUM	130	X	X	

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
HUM	140	X		
HUSR	111	X	X	X
HUSR	118	X		
HUSR	122		X	
HUSR	124	X		
HUSR	126	X		
HUSR	128		X	
HUSR	130		X	
HUSR	199A	X	X	
HUSR	199B	X	X	
HUSR	230A		X	
HUSR	230B		X	
JAPN	101	X	X	
JAPN	102		X	
JOUR	110	X		
JOUR	120	X	X	
JOUR	147		X	
JOUR	220	X	X	
JOUR	230			X
JOUR	231			X
JOUR	241	X	X	
JOUR	242	X	X	
JOUR	243	X	X	
JOUR	244	X	X	
JOUR	290	X	X	X
JOUR	299	X	X	X
KIN	115		X	
KIN	122	X	X	X
KIN	126	X		
KIN	127	X		
KIN	128		X	
KIN	131	X		
KIN	145		X	
KIN	146		X	
KIN	188		X	
KIN	191	X	X	X
KIN	193	X	X	X
KIN	194	X	X	X
KIN	195	X		
KIN	196	X	X	X
KIN	197	X	X	
KIN	290	X	X	
KIN	297		X	
KINA	101			X
KINA	102	X		
KINA	103	X		
KINA	104		X	
KINA	105	X	X	X
KINA	107	X		



<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
KINA	109	X	X	X
KINA	110	X	X	
KINA	113		X	
KINA	117	X	X	X
KINA	120	X	X	X
KINA	130	X	X	X
KINA	132	X	X	
KINA	134	X	X	X
KINA	136	X	X	X
KINA	139	X		
KINA	140	X	X	X
KINA	147	X	X	X
KINA	148	X	X	X
KINA	158	X	X	X
KINA	159	X	X	X
KINA	170	X		
KINA	171		X	
KINA	172	X		
KINA	173		X	
KINA	176	X		
KINA	180		X	
KINA	181	X		
KINA	185		X	
KINA	188	X		
KINA	189	X		
KINA	190	X		
KINA	192		X	
KINA	201	X		X
KINA	202	X		
KINA	203	X		
KINA	205		X	
KINA	206		X	
KINA	207	X		
KINA	209	X	X	X
KINA	210	X	X	
KINA	211	X		
KINA	213		X	
KINA	217	X	X	
KINA	230	X	X	X
KINA	258	X	X	X
KINA	270		X	
KINA	281		X	
LIB	101	X	X	
LIT	102	X	X	X
LIT	102H	X	X	X
LIT	112A	X		
LIT	112AH	X		
LIT	112B		X	
LIT	112BH		X	

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
LIT	114		Even Years Only	
LIT	114H		Even Years Only	
LIT	117		Even Years Only	
LIT	117H		Even Years Only	
LIT	130		Odd Years Only	
LIT	130H		Odd Years Only	
LIT	141		Odd Years Only	
LIT	142			Odd Years Only
LIT	142H			Odd Years Only
LIT	144A	Odd Years Only		
LIT	144B		Even Years Only	
LIT	146A	X		
LIT	146AH	X		
LIT	146B		X	
LIT	146BH		X	
LIT	147	X	X	
LIT	147H	X	X	
LIT	149			Even Years Only
LOG	101		X	
LOG	105	X		
LOG	110		X	
LOG	115	X		
LOG	120			X
LOG	135			X
MATH	013E	X	X	X
MATH	015E	X	X	X
MATH	016E	X	X	X
MATH	017E	X	X	X
MATH	018E	X	X	X
MATH	130	X	X	X
MATH	130H	X	X	
MATH	140	X	X	
MATH	160	X	X	X
MATH	170	X	X	X
MATH	175	X	X	X
MATH	180	X	X	X
MATH	190	X	X	X
MATH	190H	X	X	
MATH	191	X	X	X
MATH	250	X	X	X
MATH	251	X	X	
MATH	260	X	X	
MATH	270	X	X	
MGMT	101	X	X	X
MGMT	105	X	X	
MGMT	108	X	X	
MGMT	120	X		
MGMT	125	X		
MGMT	130	X	X	

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
MGMT	140	X		
MGMT	141	X		
MGMT	142		X	
MGMT	143			X
MGMT	144		X	
MGMT	146	X	X	
MGMT	150	X	X	
MGMT	208	X	X	
MGMT	290	X	X	X
MRKT	170	X	X	
MRKT	171	X		
MRKT	172		X	
MRKT	173	X		
MRKT	174		X	
MRKT	175	X		
MSCM	103	X	X	
MSCM	128	X	X	
MSCM	134	X		
MUS	101	X	X	X
MUS	103	X	X	
MUS	104	X	X	
MUS	105	X	X	
MUS	106	X	X	
MUS	107	X	X	
MUS	110	X	X	
MUS	116	X	X	
MUS	117	X	X	
MUS	119	X	X	
MUS	120	X	X	
MUS	132	X	X	X
MUS	133	X	X	X
MUS	139	X	X	
MUS	140	X	X	
MUS	142	X	X	
MUS	145	X	X	
MUS	146	X	X	
MUS	147	X	X	
MUS	148	X	X	
MUS	150	X	X	
MUS	151	X	X	
MUS	156	X	X	
MUS	157	X	X	
MUS	216	X	X	
MUS	217	X	X	
MUS	234	X	X	
MUS	241	X	X	
MUS	245	X	X	X
MUS	251	X	X	X
MUS	252	X	X	X

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
MUS	290	X		
MUST	101	X	X	X
MUST	115	X		
MUST	116		X	
MUST	121		X	
MUST	122		X	
MUST	141		X	
MUST	142		X	
MUST	145	X		
MUST	146	X		
MUST	151	X	X	
MUST	152	X	X	
NUTR	110	X		
NUTR	120		X	
ORTH	040	X		
ORTH	050	X		
ORTH	060		X	
ORTH	070			X
PAC	021	X	X	X
PAC	022	X	X	X
PAC	023	X	X	X
PAC	025	X	X	X
PAC	040	X	X	X
PAC	042	X	X	X
PAC	043	X	X	X
PAC	071	X	X	X
PAC	075E	X	X	
PAC	075F	X	X	
PAC	075G	X	X	
PAC	083	X	X	X
PHIL	101	X	X	X
PHIL	101H		X	
PHIL	110	X	X	X
PHIL	110H	X		
PHIL	112	X		
PHIL	115		X	
PHIL	120	X	X	X
PHIL	124	X		
PHIL	126		X	
PHIL	128	X	X	X
PHIL	128H	X		
PHIL	135	X		
PHIL	140		X	
PHTO	110	X	X	X
PHTO	111	X	X	
PHTO	130	X	X	X
PHTO	131	X	X	X
PHTO	230	X	X	
PHY	120	X	X	X

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
PHY	150	X		
PHY	160		X	
PHY	211	X	X	X
PHY	212	X	X	
PHY	213	X	X	
PHY	220		X	
POLS	110	X	X	X
POLS	110H	X	X	
POLS	115	X		
POLS	125		X	
POLS	128	X	X	X
POLS	128H	X		
POLS	130	X	X	
POLS	135	X		
POLS	140	X	X	
POLS	150	X	X	
PSY	101	X	X	X
PSY	101H	X		
PSY	112	X	X	X
PSY	114	X	X	
PSY	121		X	
PSY	127	X		
PSY	180	X		
PSY	190	X	X	
PSY	200	X	X	X
PSY	210	X	X	
PSY	210H		X	
RDIO	104		X	
RDIO	136			X
RDIO	236			X
READ	101	X	X	X
SOC	101	X	X	X
SOC	101H		X	X
SOC	102	X	X	
SOC	105	X		
SOC	110	X	X	
SOC	114	X	X	X
SOC	116	X	X	
SOC	120	X		
SOC	127	X	X	X
SPAN	101	X	X	X
SPAN	101S	X	X	X
SPAN	102	X	X	X
SPAN	102S	X	X	
SPAN	201	X	X	
SPAN	201H	X	X	
SPAN	202	X	X	
SPCH	100	X	X	X
SPCH	101	X	X	X

<b>Subject</b>	<b>Course</b>	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
SPCH	101H	X	X	X
SPCH	110	X	X	
SPCH	130	X	X	
SPCH	132	X	X	
SPCH	140	X	X	X
SPCH	150	X	X	
SPCH	240	X	X	X
STEM	049A	X	X	
STEM	049B	X	X	X
TCED	054		X	
THTR	101	X	X	X
THTR	110	X	X	
THTR	111	X	X	
THTR	150	X	X	X
THTR	151	X	X	X
THTR	152	X	X	X
THTR	159	X	X	X
THTR	164	X	X	X
THTR	165	X	X	X
THTR	166	X	X	X
THTR	170	X	X	X
TV	135	X	X	
TV	136		X	
VN	061		X	
VN	061L		X	
VN	071L	X		
VN	072L	X		
VN	073	X		
VN	074	X		
VN	075	X		
VN	076	X		
VN	077	X		
VN	081L		X	
VN	082L		X	
VN	083		X	
VN	084		X	
VN	085		X	
VN	086		X	
VN	087		X	
WELD	040	X	X	X
WELD	045	X		
WELD	050		X	
WELD	055	X		
WELD	065	X		
WELD	070		X	
WELD	075		X	
WELD	080		X	

## **Prerequisites**

A course prerequisite indicates that the preparation or previous coursework is considered necessary for success in the desired course. In order for a prerequisite requirement to be met, the prerequisite course must be passed with at least a satisfactory grade. If a prerequisite course is taken at Rio Hondo College, a grade of "P" or a minimum grade of "C" is required.

# **ACCOUNTING**

## **Division of Business**

### **ACCT 100**

#### **Introduction to Accounting**

**Units:** 3

**It is advised that students have a knowledge of elementary algebra concepts and be able to read college-level texts.**

**Transfers to:** CSU

This course provides basic knowledge of accounting terms, concepts, and procedures for a sole proprietorship form of business. Topics include analyzing and recording business transactions for service and merchandising firms and preparing simple financial statements. Accounting for cash, sales, purchases, payroll, and end-of-year procedures are presented. This course is designed for occupationally-oriented students and/or students preparing for Financial Accounting and Computerized Accounting.  
Hours: 54 Lecture.

### **ACCT 101**

#### **Financial Accounting (C-ID: ACCT 110)**

**Units:** 4

**It is advised that students have a knowledge of elementary algebra concepts and be able to read college-level texts.**

**Advisory:** ACCT 100

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ACCT 101 or ACCT 101H

This course is an introduction to the theory, principles, and practice of accounting and financial reporting for corporations. Topics include analysis and recording of financial transactions; preparation, analysis, and interpretation of financial statements; and accounting for assets, liabilities, and equities. Computer applications are integrated into the homework. This course is required for all accounting and business administration majors.  
Hours: 72 Lecture.

### **ACCT 101H**

#### **Financial Accounting Honors (C-ID: ACCT 110)**

**Units:** 4

**It is advised that students have a knowledge of elementary algebra concepts and be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Advisory:** ACCT 100

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit

for only one of the following courses: ACCT 101 or ACCT 101H

This course is an introduction to the theory, principles, and practice of accounting and financial reporting for corporations. Topics include analysis and recording of financial transactions; preparation, analysis, and interpretation of financial statements; and accounting for assets, liabilities, and equities. Computer applications are integrated into the homework. This course is required for all accounting and business administration majors. This course is intended for students eligible for the Honors Program.  
Hours: 72 Lecture.

### **ACCT 102**

#### **Managerial Accounting (C-ID: ACCT 120)**

**Units:** 4

**Prerequisite:** ACCT 101 or ACCT 101H

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ACCT 102 or ACCT 102H

This course introduces students to the fundamentals of managerial accounting for decision making. Topics include manufacturing cost accounting, cost allocation, cost-volume-profit analysis, absorption and variable costing, differential analysis for decision making, capital investment analysis, budgeting, standard costing, responsibility accounting centers, activity-costing, just-in-time environments, and financial statement analysis. Computer applications are integrated into the homework. This course is required for all accounting and business administration majors.  
Hours: 72 Lecture.

### **ACCT 102H**

#### **Managerial Accounting Honors (C-ID: ACCT 120)**

**Units:** 4

**Prerequisite:** ACCT 101 or ACCT 101H, ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ACCT 102 or ACCT 102H

This course introduces students to the fundamentals of managerial accounting for decision making. Topics include manufacturing cost accounting, cost allocation, cost-volume-profit analysis, absorption and variable costing, differential analysis for decision making, capital investment analysis, budgeting, standard costing, responsibility accounting centers, activity-costing, just-in-time environments, and financial statement analysis. Computer applications are integrated into the homework. This course is required for all accounting and business administration majors. This course is

intended for students eligible for the Honors Program.

Hours: 72 Lecture.

### **ACCT 103**

#### **Payroll Accounting**

**Units:** 3

**Advisory:** ACCT 100 or ACCT 101

**Transfers to:** CSU

This course combines basic accounting skills with specialized training in payroll accounting to prepare students for entry-level positions within the payroll segment of accounting. The course is designed for accounting majors and students interested in pursuing an entry-level position within the payroll segment of accounting: it provides a comprehensive overview of federal and state payroll laws and these laws' effects on payroll records and required government reports.  
Hours: 54 Lecture.

### **ACCT 104**

#### **Introduction to Governmental and Not-For-Profit Accounting**

**Units:** 3

**Prerequisite:** ACCT 101

**Transfers to:** CSU

This course is an introduction to the fundamentals of government and not-for-profit accounting. The emphasis of the course will be placed on accounting for various fund types and restrictions relevant to government and not-for-profit agencies, with both theoretical and practical aspects explored. Topics include budgets, revenues, expenditures, tax levies, appropriations, general fund, special fund, and financial statements for government and not-for-profit entities. This course is designed for students interested in furthering their educational requirements for the CPA exam and/or pursuing an entry-level position in government and not-for-profit accounting.  
Hours: 54 Lecture.

### **ACCT 105**

#### **Income Tax Accounting**

**Units:** 4

**Advisory:** ACCT 101

**Transfers to:** CSU

This course covers federal and California State income tax laws and preparation as they relate to individuals and small business entities. Emphasis is placed upon income inclusion, exclusion, exemptions, capital gains and losses, and business and individual deductions. Students who successfully complete the course with at least a "C" grade will be certified by the California Tax Education Council as fulfilling the state's 60-hour qualifying education requirement (45 federal hours and 15 California hours) to become a registered tax preparer.  
Hours: 72 Lecture.

**ACCT 106****Computerized Accounting****Units:** 3**Advisory:** ACCT 100 and ACCT 101**Transfers to:** CSU

This course is designed to provide students with a sound basic knowledge of how computerized integrated accounting systems function. Students will be processing accounting data using receivables, payables, inventory, payroll and project modules. This course is designed for accounting majors, those interested in starting a small business, and those interested in pursuing entry-level positions in the field of accounting.

Hours: 36 Lecture. 54 Lab.

**ACCT 107****Accounting Ethics****Units:** 3**Prerequisite:** ACCT 101**Transfers to:** CSU

This course is an introduction to professional ethics in accounting and business environments. The course covers principles and core philosophies of ethics by examining accountants' roles in different aspects of the accounting profession such as auditing, management, and taxation. It prepares students to develop their framework for making ethical decisions in the profession by learning how to ask questions and analyze ethical issues encountered in the accounting field. This course is designed for students pursuing an accounting certificate or degree, and for students looking to satisfy the accounting ethics requirement for the CPA exams.

Hours: 54 Lecture.

**ACCT 108****Volunteer Income Tax Assistance Program I****Units:** 1**Advisory:** ACCT 105**Transfers to:** CSU

This is the first course in a sequence of two courses designed for students who want to be a part of the Volunteer Income Tax Assistance (VITA) program at Rio Hondo. The course covers federal and California tax theories and laws appropriate for the current tax year, and students apply their knowledge by taking the IRS exams for VITA volunteers. Upon successful completion of the IRS VITA Basic and Intermediate exams, students will be able to assist low-income individuals and families with tax return preparation through the VITA program for the current year.

Hours: 18 Lecture.

**ACCT 109****Volunteer Income Tax Assistance Program II****Units:** 1**Prerequisite:** ACCT 108**Transfers to:** CSU

This is the second course in a sequence of two courses designed for students who want to volunteer in the Volunteer Income Tax Assistance (VITA) program

at Rio Hondo. This course will allow students who have successfully passed ACCT 108 to apply their tax knowledge by assisting low income individuals and families with tax return preparation through the VITA program for the current year. Students will learn to use the TaxWise software to accurately file individual federal and state income tax returns within the scope of the VITA program. Students will learn how to develop a system of quality control for actual taxpayer returns as well as develop their communication skills through interviews of taxpayers and explanation of tax return results. This course is offered on a Pass/No Pass basis.

Hours: 9 Lecture. 27 Lab.

**ACCT 110****Excel for Business and Accounting****Units:** 1**Prerequisite:** ACCT 101**Advisory:** CIT 107**Transfers to:** CSU

This course is designed for individuals seeking to enhance entry level Microsoft Excel spreadsheet skills in a business and accounting environment. Students will learn how and why Excel is used for analyzing data, managing budgets, forecasting and modeling financial performance in business.

Hours: 13.5 Lecture. 13.5 Lab.

**ACCT 203****Introduction to Cost Accounting****Units:** 3**Prerequisite:** ACCT 101**Transfers to:** CSU

This course applies a logical approach to the fundamentals of cost accounting as applied to a manufacturing business, as well as the use of cost data in management decisions. Principles and procedures of cost systems are presented first in an overview, then discussed and illustrated in detail. The course provides thorough coverage of job order costing, process costing, and standard costs. Analysis of cost data is integrated with discussions of cost accounting systems and procedures. Students also evaluate quantitative and qualitative data to assist management with strategic decision-making, planning, and controlling. This course is designed for accounting majors and those interested in furthering their knowledge and understanding of managerial accounting.

Hours: 54 Lecture.

**ACCT 290****Cooperative Work Experience/ Internship for Accounting Related Fields****Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under

supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of accounting and have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:**

1 Unit/60 hours; 2 Units/120 hours;

3 Units/180 hours; 4 Units/240 hours

**Student Paid Internship**

1 Unit/75 hours; 2 Units/150 hours;

3 Units/225 hours; 4 Units/300 hours.

Hours: 60-300 Lab.

**ACCT 299****Directed Study: Accounting****Units:** 1-3**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/ or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take Directed Study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## ASSOCIATE DEGREE NURSING

### Division of Health Science and Nursing

**ADN 075**

**LVN Transition into the Associate  
Degree Nursing Program**



**Units:** 2.5

**It is advised that students have a knowledge of intermediate algebra concepts and be able to read college-level texts.**

**Prerequisite:** Acceptance into Nursing Program and Current LVN License  
This short-term course provides an overview of the Associate Degree Nursing Program. The focus is on successful learning strategies and the development of critical thinking skills. An overview of the systems developmental stress model is included as a framework for the nursing process and the Associate Degree Nursing curriculum. Also included is an in-depth study of the nursing process including physical assessment, nursing diagnosis, interventions and evaluations. The nursing skills required for physical assessment and basic patient care will be presented. This course is open to all career ladder LVN and 30-unit option students entering the second year of the Associate Degree Nursing Program. Hours: 36 Lecture. 27 Lab.

### **ADN 130**

#### **Foundational Concepts of Nursing**

**Units:** 2

**It is recommended that students be able to read and comprehend textbooks written at the college level and possess the capability to solve basic mathematical equations including multiplication and division.**

**Prerequisite:** BIOL 125 and BIOL 222 and BIOL 226 and ENGL 101

**Corequisite:** ADN 130L

**Transfers to:** CSU

This course introduces students to foundational concepts across the lifespan that inform the provision of safe and effective nursing care. Principles of safety, care competencies, health care infrastructure, attributes, and roles are presented. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 130 and ADN 130L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 36 Lecture.

### **ADN 130L**

#### **Foundational Concepts of Nursing Lab**

**Units:** 1.5

**Prerequisite:** BIOL 125, BIOL 226, BIOL 222, ENGL 101

**Corequisite:** ADN 130

**Transfers to:** CSU

This course introduces students to foundational concepts across the lifespan that inform the provision of safe and effective nursing care. Principles of safety, care competencies, health care infrastructure, attributes, and roles are presented. Students apply concepts in seminar, lab, and/or clinical

settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 130 and ADN 130L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 81 Lab.

### **ADN 131**

#### **Healthcare Participant**

**Units:** 2

**Prerequisite:** ADN 130, ADN 130L

**Corequisite:** ADN 132, ADN 131L

**Transfers to:** CSU

This course introduces students to attributes of the health care participant in individual, family, and community terms, and which inform the provision of safe and effective nursing care. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 131 and ADN 131L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 36 Lecture.

### **ADN 131L**

#### **Healthcare Participant Lab**

**Units:** 2

**Prerequisite:** ADN 130, ADN 130L

**Corequisite:** ADN 131, ADN 132

**Transfers to:** CSU

This course introduces students to attributes of the health care participant in individual, family, and community terms, and which inform the provision of safe and effective nursing care. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 131 and ADN 131L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 108 Lab.

### **ADN 132**

#### **Pharmacology I**

**Units:** 1.5

**Prerequisite:** ADN 130, ADN 130L

**Corequisite:** ADN 131, ADN 131L

**Transfers to:** CSU

This course introduces students to pharmacologic nursing practice via a conceptual approach. Emphasis is placed on drug classifications, prototypes, actions, interactions, adverse effects, and nursing implications. Students are encouraged to utilize the nursing process and clinical judgment while applying concepts in a seminar setting; and, in conjunction with a knowledge of pharmacological principles and interventions, can put concepts into practice upon completing the course. Hours: 18 Lecture. 27 Lab.

### **ADN 133**

#### **Maternal Newborn Health Concepts**

**Units:** 1

**Prerequisite:** ADN 131, ADN 131L, ADN 132

**Corequisite:** ADN 133L

**Transfers to:** CSU

This course focuses on maternal and newborn health concepts that inform the provision of safe and effective nursing care. Emphasis is placed on reproduction, sexuality, homeostasis, regulation, and emotion. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 133 and ADN 133L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 18 Lecture.

### **ADN 133L**

#### **Maternal Newborn Health Concepts Lab**

**Units:** 1.5

**Prerequisite:** ADN 131, ADN 131L, ADN 132

**Corequisite:** ADN 133

**Transfers to:** CSU

This course focuses on maternal and newborn health concepts that inform the provision of safe and effective nursing care. Emphasis is placed on reproduction, sexuality, homeostasis, regulation, and emotion. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 133 and ADN 133L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 81 Lab.

### **ADN 134**

#### **Pediatric Health Concepts**

**Units:** 1

**Prerequisite:** ADN 131, ADN 131L, ADN 132

**Corequisite:** ADN 134L

**Transfers to:** CSU

This course focuses on pediatric health concepts that inform the provision of safe and effective nursing care. Emphasis is placed on attributes and resources, homeostasis, and regulation. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 134 and ADN 134L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 18 Lecture.

### **ADN 134L**

#### **Pediatric Health Concepts Lab**

**Units:** 1.5

**Prerequisite:** ADN 131, ADN 131L, ADN 132

**Corequisite:** ADN 134

**Transfers to:** CSU

This course focuses on pediatric health concepts that inform the provision of safe and effective nursing care. Emphasis is placed on attributes and resources, homeostasis, and regulation. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 134 and ADN 134L at the same time and pass both courses together: the courses cannot be taken individually for credit.  
Hours: 81 Lab.

**ADN 135****Nursing Health and Illness Concepts I**  
**Units: 2**

**Prerequisite:** ADN 131, ADN 131L, ADN 132

**Corequisite:** ADN 135L

**Transfers to:** CSU

This course focuses on health and illness concepts for care of individuals with common and/or chronic conditions across the lifespan, and which inform the provision of safe and effective nursing care. Emphasis is placed on concepts including homeostasis and regulation, protection and movement, oxygenation, and hemostasis; and on professional nursing concepts including professional attributes and care competencies. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 135 and ADN 135L at the same time and pass both courses together: the courses cannot be taken individually for credit.  
Hours: 36 Lecture.

**ADN 135L****Nursing Health and Illness Concepts I Lab**

**Units: 2**

**Prerequisite:** ADN 131, ADN 131L, ADN 132

**Corequisite:** ADN 135

**Transfers to:** CSU

This course focuses on health and illness concepts for care of individuals with common and/or chronic conditions across the lifespan, and which inform the provision of safe and effective nursing care. Emphasis is placed on concepts including homeostasis and regulation, protection and movement, oxygenation, and hemostasis; and on professional nursing concepts including professional attributes and care competencies. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 135 and ADN 135L at the same time and pass both

courses together: the courses cannot be taken individually for credit.

Hours: 108 Lab.

**ADN 150****Medical/Surgical Nursing I**

**Units: 4**

**Prerequisite:** ADN 151, ADN 151L with a "Pass", BIOL 222

**Corequisite:** ADN 150L, ADN 154

**Transfers to:** CSU

This course focuses on the application of the nursing process in caring for patients with disturbances in fluid and electrolyte status; acid/base balance; and digestive, renal, endocrine, cardiovascular and respiratory systems. Discussion includes the pathophysiology of disease processes as well as medical and nursing interventions, and students apply theoretical concepts in a clinical setting. This course is designed for students in the Associate Degree Nursing (ADN) Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN 150 and ADN 150L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 72 Lecture.

**ADN 150L****Medical/Surgical Nursing I Lab**

**Units: 4**

**Prerequisite:** ADN 151, ADN 151L, BIOL 222

**Corequisite:** ADN 150 and ADN 154

**Transfers to:** CSU

This course focuses on the application of the nursing process in caring for patients with disturbances in fluid and electrolyte status; acid/base balance; and digestive, renal, endocrine, cardiovascular and respiratory systems. Discussion includes the pathophysiology of disease processes as well as medical and nursing interventions, and students apply theoretical concepts in a clinical setting. This course is designed for students in the Associate Degree Nursing (ADN) Program. The Board of Registered Nursing requires that students be enrolled concurrently in ADN 150 and ADN 150L, and pass both courses together. The courses cannot be taken individually for credit.  
Hours: 216 Lab.

**ADN 151****Clinical Nursing Concepts**

**Units: 2**

**It is advised that students have a knowledge of intermediate algebra concepts.**

**Prerequisite:** BIOL 125, BIOL 222, BIOL 226 and ENGL 101

**Corequisite:** ADN 151L

**Transfers to:** CSU

This is an introductory course in basic clinical nursing concepts. The student will be introduced to a theoretical framework for nursing practice including the nursing process, the conceptual model used in the Associate

Degree Nursing Program and QSEN.

Concepts related to therapeutic communication, legal and ethical issues, documentation and safety are included. In addition, concepts related to assessment, nursing interventions and individualization of patient care will be presented. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN 151 and ADN 151L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 36 Lecture.

**ADN 151L****Clinical Nursing Concepts Lab**

**Units: 2**

**It is advised that students have a knowledge of intermediate algebra concepts.**

**Prerequisite:** BIOL 125, BIOL 222, BIOL 226 and ENGL 101

**Corequisite:** ADN 151

**Transfers to:** CSU

This is an introductory laboratory and clinical course designed to familiarize the student with the nursing process and its application to patient care. Principles and techniques for nursing skills will be introduced in order to provide the student with the opportunity to demonstrate mastery of those skills and subsequently the ability to function safely and appropriately in the laboratory and clinical setting. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN151 and ADN 151L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 108 Lab.

**ADN 154****Pharmacology**

**Units: 2**

**Prerequisite:** ADN 151

**Corequisite:** ADN 150 and ADN 150L

**Transfers to:** CSU

This is an introduction pharmacology course that focuses on the study of drugs most frequently prescribed. The course emphasis is on basic techniques and computations used in the administration of medications as well as the special nursing considerations that pertain to the safe administration of medication. Completion of this course allows the Associate Degree Nursing student to safely administer medication to patients under the supervision of the nursing instructor.  
Hours: 27 Lecture. 27 Lab.

**ADN 155****Nursing Process: Childbearing****Family/Women's Health**

**Units: 2**

**Prerequisite:** ADN 150, ADN 150L, ADN 151, ADN 151L, ADN 154

**Corequisite:** ADN 155L

**Transfers to:** CSU

This course is designed for the Associate Degree Nursing student. It focuses on the biological, intrapersonal/interpersonal and

developmental aspects of human reproduction. The nursing process is utilized in meeting maternal, newborn, and family needs as they relate to human reproduction. This course also focuses on women's health issues with regard to fertility, family planning, gynecological problems and related needs, and the utilization of the nursing process to meet those needs. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN155 and ADN155L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 36 Lecture.

**ADN 155L**  
**Nursing Process: Childbearing Family/Women's Health Lab**  
**Units: 2**

**Prerequisite:** ADN 150, ADN 150L, ADN 151, ADN 151L, ADN 154

**Corequisite:** ADN 155

**Transfers to:** CSU

This course focuses on the application of the nursing process in caring for childbearing women, their newborns, and their families through the normal childbearing process, with attention to common pathophysiologies associated with childbearing and newborns. Students use evidence-based practice to guide their clinical practice, and enhance their cultural sensitivity to the diverse population served.

Development of patient teaching skills is emphasized, the nursing process is integrated throughout the clinical experience, and students apply learned theoretical concepts in the clinical setting. This course is designed for students in the Associate Degree Nursing (ADN) Program. The Board of Registered Nursing requires that students be enrolled concurrently in ADN 155 and ADN 155L, and pass both courses together. The courses cannot be taken individually for credit.  
Hours: 108 Lab.

**ADN 156**  
**Nursing Process Applied to the Care of Children**  
**Units: 2**

**Prerequisite:** ADN 150, ADN 150L and ADN 154

**Corequisite:** ADN 156L

**Transfers to:** CSU

This course focuses on the application of the nursing process in caring for children. Emphasis is placed on normal growth and development patterns of the growing child, as well as developmental, biological, interpersonal, and intrapersonal stressors that affect children and their families. The pathophysiology of disease processes that may occur during childhood and related medical and nursing interventions are discussed. This course is designed for students in the Associate Degree Nursing (ADN) Program. The Board of Registered Nursing requires that students

be enrolled concurrently in ADN 156 and ADN 156L, and pass both courses together. The courses cannot be taken individually for credit.  
Hours: 36 Lecture.

**ADN 156L**  
**Nursing Process Applied to the Care of Children Lab**  
**Units: 2**

**Prerequisite:** ADN 150 and ADN 150L and ADN 154

**Corequisite:** ADN 156

**Transfers to:** CSU

This course focuses on the application of the nursing process in caring for children, and is designed for students in the Associate Degree Nursing Program. Emphasis is placed on normal growth and development patterns of the growing child and developmental, biological, interpersonal, and intrapersonal stressors affecting children and their families. The pathophysiology of disease process that may occur during childhood and related medical and nursing interventions are discussed; students apply the theoretical concepts in the clinical setting. The Board of Registered Nursing requires that students must be enrolled in ADN 156 and ADN 156L concurrently, and pass both courses at the same time. Neither course can be taken individually for credit.  
Hours: 108 Lab.

**ADN 230**  
**Mental Health Concepts**  
**Units: 1.5**

**Prerequisite:** ADN 133, ADN 133L, ADN 134, ADN 134L, ADN 135, ADN 135L

**Corequisite:** ADN 230L

**Transfers to:** CSU

This course focuses on mental health concepts across the lifespan, and which inform the provision of safe and effective nursing care. Emphasis is placed on concepts including coping and stress tolerance, emotion, cognitive function, and maladaptive behavior. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 230 and ADN 230L at the same time and pass both courses together: the courses cannot be taken individually for credit.  
Hours: 27 Lecture.

**ADN 230L**  
**Mental Health Concepts Lab**  
**Units: 1.5**

**Prerequisite:** ADN 133, ADN 133L, ADN 134, ADN 134L, ADN 135, ADN 135L

**Corequisite:** ADN 230

**Transfers to:** CSU

This course focuses on mental health concepts across the lifespan, and which inform the provision of safe and effective nursing care. Emphasis is placed on concepts including coping

and stress tolerance, emotion, cognitive function, and maladaptive behavior. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 230 and ADN 230L at the same time and pass both courses together: the courses cannot be taken individually for credit.  
Hours: 81 Lab.

**ADN 231**  
**Nursing Health and Illness Concepts II**  
**Units: 2**

**Prerequisite:** ADN 133, ADN 133L, ADN 134, ADN 134L, ADN 135, ADN 135L

**Corequisite:** ADN 231L, ADN 232

**Transfers to:** CSU

This course focuses on health and illness concepts for complex acute and chronic conditions across the lifespan, and which inform the provision of safe and effective nursing care. Emphasis is placed on concepts including oxygenation, homeostasis and regulation, protection and movement, and coping; and on professional nursing concepts including selected professional attributes and care competencies. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 231 and ADN 231L at the same time and pass both courses together: the courses cannot be taken individually for credit.  
Hours: 36 Lecture.

**ADN 231L**  
**Nursing Health and Illness Concepts II Lab**  
**Units: 2.5**

**Prerequisite:** ADN 133, ADN 133L, ADN 134, ADN 134L, ADN 135, ADN 135L

**Corequisite:** ADN 231

**Transfers to:** CSU

This course focuses on health and illness concepts for complex acute and chronic conditions across the lifespan, and which inform the provision of safe and effective nursing care. Emphasis is placed on concepts including oxygenation, homeostasis and regulation, protection and movement, and coping; and on professional nursing concepts including selected professional attributes and care competencies. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 231 and ADN 231L at the same time and pass both courses together: the courses cannot be taken individually for credit.  
Hours: 135 Lab.

**ADN 232  
Pharmacology II**

**Units:** 1.5

**Prerequisite:** ADN 132, ADN 133, ADN 133L, ADN 134, ADN 134L, ADN 135, ADN 135L

**Corequisite:** ADN 231L, ADN 231

**Transfers to:** CSU

This course continues the study of pharmacology via a conceptual approach as it relates to nursing management of drug therapy. Emphasis is placed on drug classifications, prototypes, actions, interactions, adverse effects, and nursing implications; and on complex curricular concepts related to pharmacological modalities. Students are encouraged to utilize the nursing process and clinical judgment while applying concepts in a seminar setting; and, in conjunction with a knowledge of pharmacological principles and interventions, can put concepts into practice upon completing the course. Hours: 18 Lecture. 27 Lab.

**ADN 233  
Nursing Health and Illness Concepts III**

**Units:** 2.5

**Prerequisite:** ADN 230, ADN 230L, ADN 231, ADN 231L, ADN 232

**Corequisite:** ADN 233L

**Transfers to:** CSU

This course focuses on health and illness concepts for care of individuals with multisystem and emergent health conditions across the lifespan, and which inform the provision of safe and effective nursing care. Concepts include homeostasis and regulation, protection and movement, and maladaptive behavior. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 233 and ADN 233L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 45 Lecture.

**ADN 233L  
Nursing Health and Illness Concepts III Lab**

**Units:** 2

**Prerequisite:** ADN 230, ADN 230L, ADN 231, ADN 231L, ADN 232

**Corequisite:** ADN 233

**Transfers to:** CSU

This course focuses on health and illness concepts for care of individuals with multisystem and emergent health conditions across the lifespan, and which inform the provision of safe and effective nursing care. Concepts include homeostasis and regulation, protection and movement, and maladaptive behavior. Students apply concepts in seminar, lab, and/or clinical settings, and can put concepts into practice upon completing the course. The California Board of Registered Nursing (BRN) requires that students

must be enrolled in ADN 233 and ADN 233L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 108 Lab.

**ADN 234  
Nursing Health and Illness Concepts IV**

**Units:** 2

**Prerequisite:** ADN 233, ADN 233L

**Corequisite:** ADN 234L

**Transfers to:** CSU

This course focuses on the theoretical and clinical application of the nursing process and clinical judgment in the provision of safe and effective nursing care for patients across the lifespan. The course facilitates the transition from student nurse to graduate nurse, and includes content related to professional nursing and healthcare concepts. Students participate as a preceptee or mentee/member of the healthcare team and assume responsibility for a group of patients under the direct supervision of a registered nurse or a non-faculty preceptor. Upon completion of the course, students are expected to function satisfactorily within the Nurse of the Future core competencies. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 234 and ADN 234L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 36 Lecture.

**ADN 234L  
Nursing Health and Illness Concepts IV Lab**

**Units:** 2.5

**Prerequisite:** ADN 233, ADN 233L

**Corequisite:** ADN 234

**Transfers to:** CSU

This course focuses on the theoretical and clinical application of the nursing process and clinical judgment in the provision of safe and effective nursing care for patients across the lifespan. The course facilitates the transition from student nurse to graduate nurse, and includes content related to professional nursing and healthcare concepts. Students participate as a preceptee or mentee/member of the healthcare team and assume responsibility for a group of patients under the direct supervision of a registered nurse or a non-faculty preceptor. Upon completion of the course, students are expected to function satisfactorily within the Nurse of the Future core competencies. The California Board of Registered Nursing (BRN) requires that students must be enrolled in ADN 234 and ADN 234L at the same time and pass both courses together: the courses cannot be taken individually for credit. Hours: 135 Lab.

**ADN 250  
Advanced Pharmacology**

**Units:** 1

**Prerequisite:** ADN 155 and ADN 156 (for generic ADN students), ADN 075 (for LVN to ADN students)

**Advisory:** ENGL 101

**Transfers to:** CSU

This is an advanced pharmacology course that focuses on the skills and study of medications used for neurological, psychiatric, and medical-surgical concepts. The course emphasis is on advanced techniques and computations used in the administration of medications utilizing the nursing process and the Systems Developmental Stress Model, as well as the special nursing considerations that pertain to the safe administration of medication. Study of this course allows the Associate Degree Nursing student to continue to safely administer medications to patients. Hours: 18 Lecture.

**ADN 251  
Medical /Surgical Nursing II**

**Units:** 2

**Prerequisite:** ADN 155, ADN 155L and ADN 156, ADN 156L (for generic ADN students), ADN 075 (for LVN to ADN students)

**Corequisite:** ADN 252 and ADN 252L (students who have an active Psychiatric Technician license are exempt from the ADN 252 and ADN 252L corequisites), ADN 250 and ADN 251L

**Transfers to:** CSU

This course focuses on the aging process as it relates to normal aging and related changing biological, interpersonal, and intrapersonal needs. It also focuses on the application of the nursing process in caring for patients with disturbances in perception, coordination, and mobility. The pathophysiology of disease processes as well as medical and nursing interventions and rehabilitative approaches to restoring and maintaining optimum health are discussed. This course is designed for students in the Associate Degree Nursing program. The Board of Registered Nursing (BRN) requires that ADN 251 students must be concurrently enrolled in ADN 251L, and pass both courses together: ADN 251 and ADN 251L cannot be taken individually for credit. Hours: 36 Lecture.

**ADN 251L  
Medical/Surgical Nursing II Lab**

**Units:** 2.5

**Prerequisite:** ADN 155, ADN 155L and ADN 156, ADN 156L (for generic ADN students), ADN 075 (for LVN to ADN students)

**Corequisite:** ADN 252 and ADN 252L (students who have an active Psychiatric Technician license are exempt for ADN 252 and ADN 252L corequisites), ADN 250 and ADN 251

**Transfers to:** CSU

This course focuses on the aging process as it relates to normal aging and changing biological, interpersonal,



and intrapersonal needs. The course also focuses on the application of the nursing process in caring for patients with disturbances in perception, coordination, and mobility. Discussion includes the pathophysiology of disease processes, as well as medical and nursing interventions and rehabilitative approaches to restoring and maintaining optimum health. This course is designed for students in the Associate Degree Nursing (ADN) Program. The Board of Registered Nursing requires that students be enrolled concurrently in ADN 251 and ADN 251L, and pass both courses together. The courses cannot be taken individually for credit.  
Hours: 135 Lab.

#### **ADN 252**

##### **Psychiatric/ Mental Health Nursing**

**Units:** 2

**Prerequisite:** ADN 155, ADN 155L and ADN 156, ADN 156L or ADN 075 and Active California Vocational Nursing License

**Corequisite:** ADN 252L

**Transfers to:** CSU

This course focuses on application of the nursing process as a problem solving approach to assessment, problem identification and intervention for patients with psychiatric and mental health problems. Basic concepts related to biological, intrapersonal and interpersonal factors in mental health and mental illness are discussed. This course is designed for students in the Associate Degree Nursing Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN252 and ADN252L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 36 Lecture.

#### **ADN 252L**

##### **Psychiatric/Mental Health Nursing Lab**

**Units:** 1.5

**Prerequisite:** ADN 155 and ADN 155L and ADN 156, ADN 156L or ADN 075 and Active California Vocational Nursing License

**Corequisite:** ADN 252

**Transfers to:** CSU

This course focuses on application of the nursing process as a problem solving approach to assessment, problem identification and intervention for patients with psychiatric and mental health problems. Basic concepts related to biological, intrapersonal and interpersonal factors in mental health and mental illness are discussed. This course is designed for students in the Associate Degree Nursing Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN252 and ADN252L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 81 Lab.

#### **ADN 253**

##### **Medical/Surgical Nursing III**

**Units:** 2

**Prerequisite:** ADN 250, ADN 251, ADN 251L, ADN 252 and ADN 252L

**Corequisite:** ADN 253L

**Transfers to:** CSU

This course focuses on the nursing process with patients requiring complex nursing care. The course emphasizes approaches to handling generalized emergencies, immunologic problems, and oncologic problems. The course integrates all past nursing theory to assist the nursing student with advanced nursing concepts. This course is designed for students in the Associate Degree Nursing Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN 253 and ADN 253L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 36 Lecture.

#### **ADN 253L**

##### **Medical/Surgical Nursing III Lab**

**Units:** 3

**Prerequisite:** ADN 250, ADN 251, ADN 251L, ADN 252 and ADN 252L

**Corequisite:** ADN 253

**Transfers to:** CSU

This course focuses on the nursing process with patients requiring complex nursing care. The course emphasizes generalized emergencies, immunologic problems, and oncologic problems. The course integrates all past nursing theory to assist the nursing student with advanced nursing concepts. The students will apply the theoretical concepts in the clinical setting. This course is designed for students in the Associate Degree Nursing Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN253 and ADN253L, and pass both courses together. They cannot be taken individually for credit. This course is offered on a pass/no pass basis.  
Hours: 162 Lab.

#### **ADN 254**

##### **Leadership and Management in Nursing**

**Units:** 1.5

**Prerequisite:** ADN 253 and ADN 253L

**Corequisite:** ADN 254L

**Transfers to:** CSU

This course focuses on principles of leadership and management as well as current trends in nursing practice. Discussion includes the legal and ethical responsibilities of the professional nurse, and the specific skills and attributes students need as they transition to nursing practice as a member of a team. Methods to maintain professional competence and advancement in the profession are explored. This course is designed for students in the Associate Degree Nursing (ADN) Program. The Board of Registered Nursing requires that students be enrolled concurrently in

ADN 254 and ADN 254L, and pass both courses together. The courses cannot be taken individually for credit.  
Hours: 27 Lecture.

#### **ADN 254L**

##### **Leadership and Management in Nursing Lab**

**Units:** 2.5

**Prerequisite:** ADN 253 and ADN 253L

**Corequisite:** ADN 254

**Transfers to:** CSU

This course focuses on the application of the theories and principles of leadership and management. Students will apply theory content while working in a clinical preceptorship, providing care under the guidance of an RN preceptor. The Board of Registered Nursing requires that students be enrolled concurrently in ADN 254 and ADN 254L, and pass both courses together. The courses cannot be taken individually for credit.  
Hours: 135 Lab.

#### **ADN 290**

##### **Cooperative Work Experience/RN Transition**

**Units:** 4

**Prerequisite:** California Registered Nurse License, Recent graduate of an RN program within the last 12 months.

**Transfers to:** CSU

This course is designed for students who have already obtained their Registered Nurse license but have not been able to obtain employment. This course is a collaboration between Rio Hondo College and local Medical Centers, that will provide a structured clinical practice environment and learning opportunities that support a deeper understanding of the healthcare environment in which Registered Nurses work. The course will be structured with 5 hours of theory at Rio Hondo College and 235 hours of clinical/simulation course work. The theory course work will review professionalism, interview skills and knowledge, skills and attitudes necessary to improve the quality and safety of the healthcare system. The clinical and simulation experience will provide the new graduate the opportunity to increase competence with clinical skills, critical thinking and professional role assimilation. Unlike other CWE courses, this course may only be taken once for 4 units of credit.  
Hours: 5 Lecture. 235 Lab.

## **ALTERNATIVE ENERGY TECHNOLOGY**

### **Division of Career and Technical Education**

#### **AET 120**

##### **Introduction to Alternative Energy Technology (Same as ET 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This introductory-level course provides students with a working knowledge of present-day energy systems, including in-depth analysis of the design and installation of alternative energy systems. Topics will include solar electrical systems, wind electrical systems, solar water heating systems, wind mechanical systems, small hydro-electrical systems, geothermal energy, fuel cells, biomass, energy storage, and microgrids. Students will develop skills to construct an alternative energy system. This course is intended for students who are interested in a career in the alternative energy industry. Hours: 45 Lecture. 27 Lab.

**AET 121  
Photovoltaic Systems Design and Installation (Same as ET 121)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

In this introductory course, students examine and implement the design and installation of solar photovoltaic power systems, including the installation of a working solar photovoltaic power system. Students learn how to perform solar site evaluations, electrical load calculations, solar system size calculations, and installation techniques for grid-tie and off-the-grid photovoltaic systems. The course is designed to prepare students for the North American Board of Certified Energy Practitioners (NABCEP) entry-level exam, and is intended for students who are contemplating a career in the solar photovoltaic energy industry. Hours: 45 Lecture. 27 Lab.

**AET 122  
Advanced Photovoltaic Systems Design and Installation (Same as ET 122)**

**Units:** 3

**Advisory:** AET 121 or ET 121

**Transfers to:** CSU

This is the second course in the photovoltaic series in which students further examine and implement the design and installation of solar photovoltaic power systems. Students learn how to interpret the National Electrical Code (NEC) specifications concerning photovoltaic installations. Topics include code-compliant wiring of modules, inverters, charge controllers, batteries, grounding techniques, and related topics. Additional topics include the design and installation of large commercial photovoltaic systems. This course is intended for students who are contemplating a career in the solar photovoltaic energy industry. Hours: 45 Lecture. 27 Lab.

**AET 123  
Wind Energy Systems Design and Installation (Same as ET 123)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

In this introductory course students examine and implement the design and installation of wind power systems, including the installation of a working wind generation power system. Students learn how to perform wind site evaluations, electrical load calculations, wind system size calculations, hydraulics fundamentals, basic aerodynamics, and installation techniques for wind power generation systems; in designing and installing wind power generation systems, students obtain skills for employment. This course is intended for students who are contemplating a career in the wind turbine power generation industry. Hours: 45 Lecture. 27 Lab.

**AET 124  
Advanced Wind Energy Systems Design and Installation (Same as ET 124)**

**Units:** 3

**Advisory:** AET 123 or ET 123

**Transfers to:** CSU

This is the second course in the wind energy series in which students further examine and implement the design and installation of wind power systems. Students learn how to interpret the National Electrical Code (NEC) specifications concerning wind power installations. Topics include code-compliant wiring of modules, inverters, charge controllers, grounding techniques, and related topics. Additional topics include wind site evaluations, electrical load calculations, wind system size calculations, hydraulic fundamentals, basic aerodynamics, and installation techniques for large wind power generation systems. This course is intended for students who are contemplating a career in the wind turbine power generation industry. Hours: 45 Lecture. 27 Lab.

**AET 125  
Energy Storage Systems**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, be able to read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course provides an introductory overview of energy storage systems. Students will obtain a working knowledge of electric/hybrid vehicles, fast battery charging, smart grids, and microgrids. Renewable energy (solar and wind), peak shaving, and reduction of energy consumption will also be discussed. Students will design and build a renewable energy system with

an energy storage solution. This course is intended for students considering a career in the renewable energy industry.

Hours: 45 Lecture. 27 Lab.

**AET 126  
Solar PV Technical Sales**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, be able to read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide students with the knowledge and skills of solar photovoltaic (PV) design and sales techniques. The course covers basic solar fundamentals, site evaluation, shade analysis, consumer electric rates, benefits of PV, return on investment, system sizing and electrical and mechanical design considerations. This course will provide students with the design and sales skills needed to become solar professionals, as well as prepare them for the NABCEP PV Technical Sales Professional Exam. Hours: 54 Lecture.

**AET 181  
Home Energy Management and Auditing (Same as ET 181)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students working in or seeking employment in the green energy field, with an overview of home energy management and auditing. Specifically, the course assists students in preparing a comprehensive home energy audit and energy management program. Emphasis is placed on the following topics: appliances, insulation, designing/remodeling, electricity, landscaping, lighting, space heating and cooling, water heating, doors/windows/skylights, and home energy audits. Hours: 54 Lecture.

**AET 182  
Industrial Energy Management and Auditing (Same as ET 182)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students working in or seeking employment in the green energy field, with an overview of industrial energy management and auditing. Specifically, this course assists students in preparing a comprehensive energy audit and energy management program. Emphasis is placed on the following topics: types of energy audits, energy management and cost, benchmarking,

energy performance, energy use requirements, maximizing system efficiencies, optimizing energy input requirements, fuel and energy substitution, and energy audit instruments.

Hours: 54 Lecture.

### **AET 183**

#### **Energy Management Systems**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, be able to read college-level texts, and have a knowledge of elementary algebra concepts.**

**Transfers to:** CSU

The course focuses on the fundamentals of energy and the energy management systems in residential and commercial buildings. Students will learn procedures and tools used for efficient and effective use of energy to minimize costs and reduce future energy demand. This course is intended for students who are currently active as energy managers or energy professionals and for those just entering the industry.

Hours: 54 Lecture.

### **AET 280**

#### **Green Building Design Principles (Same as ET 280)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students working in or seeking employment in the green building field, with an overview of the green building industry and its components. Specifically, this course assists students in preparing for the Leadership in Energy and Environmental Design Accredited Professional (LEED AP) examination, which is the most recognized professional accreditation for green building in the nation. Emphasis is placed on the six categories of design that green buildings must address for LEED certification: sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, and innovation and design process. Each of these categories are studied, with a focus on the significance of each particular credit.

Hours: 54 Lecture.

### **AET 299**

#### **Directed Study in Alternative Energy Technology**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare

written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

## **ADMINISTRATION OF JUSTICE**

### **Division of Public Safety**

#### **AJ 041**

##### **Effective Written Communication for Public Service Personnel**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

This course provides Administration of Justice students an overview of writing techniques for the communication of facts and information in a criminal justice setting, including the correct usage of words and proper sentence structure. Emphasis is placed on law enforcement-specific terms, phrases, and spelling. Topics include but are not limited to crime reports, investigative follow-up reports, traffic collision reports, background investigative summations and recommendations, internal investigative summations and recommendations, press releases, and inter-agency criminal activity crime bulletins.

Hours: 54 Lecture.

#### **AJ 101**

##### **Introduction to Administration of Justice (C-ID: AJ 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course introduces students to the characteristics of the criminal justice system of the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the criminal justice system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped these principles and approaches. Although justice structure and process is examined in a cross-cultural context, emphasis is placed on the justice system of the United States, and particularly the structure and function of the police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, sentencing, and incarceration policies.

Hours: 54 Lecture.

#### **AJ 102**

##### **Criminal Procedures (C-ID: AJ 122)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course provides students with an in-depth study of the legal responsibilities of law enforcement. Emphasis is placed on the judicial segment of the administration of justice system. Topics include laws of arrest, custody, and analyses of the past, present, and future procedures for each subsystem within the administration of justice system, from initial entry to final disposition. The relationship each segment maintains with system members is also covered.

Hours: 54 Lecture.

#### **AJ 104**

##### **Legal Aspects of Evidence (C-ID: AJ 124)**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course provides students with an in-depth study of evidence rules. Emphasis is placed on the application of rules in preparing and presenting evidence. The course will discuss the history and approach to the study of evidence. Topics include proof by evidence and substitutes, general admissibility tests, evidence by way of witness testimony, documents, real evidence, and exclusion of evidence on constitutional grounds. For a better understanding of the evidence rules, judicial decisions are cited, and students are required to brief cases.

Hours: 54 Lecture.

#### **AJ 105**

##### **Community Relations/Multicultural Issues Within Public Service (C-ID: AJ 160)**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** UC/CSU

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution, and ethics.  
Hours: 54 Lecture.

#### **AJ 106**

##### **Criminal Law I (C-ID: AJ 120)**

**Units:** 3

**Prerequisite:** AJ 101, PAC 040 or equivalent

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit from UC for only one of the following courses: AJ 106 or AJ 107

This course presents an analysis of the doctrines of criminal liability in the United States and takes up the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification and general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. The course utilizes case law and case studies to introduce students to criminal law, and its successful completion is a foundation upon which more advanced criminal justice courses will build. The course also includes some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes.  
Hours: 54 Lecture.

#### **AJ 107**

##### **Criminal Law II**

**Units:** 3

**Advisory:** AJ 101 or completion of PAC 040 or equivalent

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit from UC for only one of the following courses: AJ 106 or AJ 107.

This course provides students with a comprehensive overview of criminal statutes and their definition. Topics include classification as applied to the system of administration of justice and crimes against persons and property. General statutes, health and safety statutes, and other state and federal laws are discussed.  
Hours: 54 Lecture.

#### **AJ 135**

##### **Introduction to Criminalistics**

**Units:** 3

**Prerequisite:** AJ 102

**Transfers to:** CSU

This course is an introduction to forensic science and its role in criminal investigations. The course examines the basic methods of collecting, analyzing, and reporting evidence, and through the development of practical skills in crime scene techniques, addresses topics including computer

crimes; biological evidence like fingerprints, blood, the skeleton, tooth marks, and hair; pathology and toxicology; and evidence associated with forensic chemistry like fibers and traces, discharged firearms, accelerants, and illicit drugs.  
Hours: 54 Lecture.

#### **AJ 136**

##### **Crime Scene Investigation**

**Units:** 3

**Prerequisite:** AJ 135

**Transfers to:** CSU

This course is a continuation of Introduction to Criminalistics (AJ 135). It provides an introduction to and opportunities for the practical application of advanced forensics in criminal investigations, as well as interview and interrogation techniques utilized after crime scene analysis and crime reconstruction. The course focuses on forensic methods, with topics that include crime scene analysis, responsibilities, and processing; physical, testimonial, trace, impression, and firearms evidence; blood and bodily fluids; arson; illicit drugs and clandestine laboratories; and sexual assaults, domestic abuse, burglaries, and homicides.  
Hours: 54 Lecture.

#### **AJ 207**

##### **Juvenile Law and Procedure (C-ID: AJ 220)**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course is designed to provide Administration of Justice or other interested students with techniques for handling juvenile offenders and victims. Emphasis is placed on the prevention and repression of delinquency, diagnosis and referral of juvenile offenders, and organization of community resources. Juvenile law and juvenile court procedures are contrasted with adult law procedures.  
Hours: 54 Lecture.

#### **AJ 208**

##### **Principles of Investigation (C-ID: AJ 140)**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course addresses the techniques, procedures, and ethical issues in the investigation of crime. The topics covered include the organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence, and the role of the investigator in the trial process.  
Hours: 54 Lecture.

#### **AJ 215**

##### **Vice and Narcotics Control**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course provides students with an in-depth understanding of code and case law of vice and narcotics. The course will focus on detection, suppression, apprehension, and prosecution of violators. Special emphasis will be placed on laws dealing with gambling, prostitution, sex crimes, narcotic identification, and search and seizure.  
Hours: 54 Lecture.

#### **AJ 228**

##### **Police Field Operations**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course is designed to provide students with an in-depth understanding of the history and development of police field operations. Particular emphasis is placed on planning field activities. Topics include the functions of patrol, traffic, and other preliminary investigative duties of the field officer. The techniques of planning for patrol operations and handling requests for service, vehicular traffic-related problems, and civil and domestic disturbances are also presented.  
Hours: 54 Lecture.

#### **AJ 250**

##### **Contemporary Issues in the Criminal Justice System**

**Units:** 3

**Advisory:** AJ 101, AJ 102

**Transfers to:** CSU

This course is designed to provide Administration of Justice or other interested students with an in-depth understanding of personal and organizational values, beliefs, attitudes and ethics as they affect contemporary issues in the criminal justice system. Particular emphasis is placed on the historical foundations that serve as a basis for contemporary decision making. Specific issues taken up in discussions will vary from semester to semester.  
Hours: 54 Lecture.

#### **AJ 275**

##### **Introduction to Forensic Science (C-ID: AJ 150)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course prepares administration of justice, forensic science, and California peace officer students for the Forensic Science Identification Program. The course provides an introduction to the role of forensics in criminal investigations, examining methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents, and controlled substances.  
Hours: 54 Lecture.

#### **AJ 290**



**Cooperative Work Experience / Internship for Administration of Justice Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in the administration of justice field under supervision of a college instructor and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in law enforcement, and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the fields of law enforcement or administration of justice, and have completed or enrolled in the appropriate coursework. Contact the Office of Cooperative Work Experience/Internship Education regarding re-enrollment procedures.

**Student Unpaid Internship:**

1 unit/60 hours; 2 units/120 hours;  
3 units/180 hours; 4 units/240 hours

**Student Paid Internship**

1 unit/75 hours; 2 units/150 hours;  
3 units/225 hours; 4 units/300 hours.  
Hours: 60-300 Lab.

**AJ 299**

**Directed Study: Administration of Justice**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## ANIMATION

### Division of Arts and Cultural Programs

**ANIM 101**

**Introduction to Digital 3-D Animation**

**Units:** 4

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is an introduction to the production pipeline used in games, film and TV. Students will be introduced to the concepts of digital sculpting, lighting, texturing, rendering, rigging, and animating 3-D objects. This course is beneficial for all students in courses related to graphic arts (multimedia, illustration, web and game design, and film production) and industrial design (architectural, automotive, furniture, clothing, and product design).  
Hours: 54 Lecture. 54 Lab.

**ANIM 105**

**Principles of 3-D Digital Animation**

**Units:** 4

**Advisory:** ART 130, ART 230

**Transfers to:** UC/CSU

This course introduces students to the basic principles of 3-D digital animation. The topics covered in this course are the starting point for any student interested in becoming a digital animator. Through the use of solid drawing and 3-D software such as Maya, students will learn to master fundamentals like squash and stretch, timing, weight, drag, and follow through. This course provides students with the opportunity to build and refine the basic skill set necessary to be a digital animator.  
Hours: 54 Lecture. 54 Lab.

**ANIM 110**

**Digital Character Animation**

**Units:** 4

**Advisory:** ANIM 105

**Transfers to:** UC/CSU

This course will provide students with an opportunity to further develop their skills in the art of creating three-dimensional digital character animation. Students will learn how to create short animation sequences and loops using digital characters. This course is appropriate and beneficial for all students in courses related to graphic arts (such as those that focus on multimedia, internet web design, game design, and broadcast media production) and industrial design (including architecture, automotive, furniture, clothing, and product design). Students will be introduced to the use of storyboards and relevant concepts related to body mechanics, acting for animators, pose-to-pose and straight

ahead animation, control rigging, and animating mechanical subject matter.  
Hours: 54 Lecture. 54 Lab.

**ANIM 120**

**Lighting and Rendering**

**Units:** 4

**Advisory:** ANIM 101

**Transfers to:** UC/CSU

This is an introductory course for all students interested in learning about lighting, rendering, and texturing for 3-D animation and games. Students focus on creating lighting scenarios and texture editing systems to generate and render surface details on a variety of 3-D objects for film, TV, and games. The class is beneficial to all students interested in career fields using computer graphics. The course is recommended for all animation, art, and architecture transfer students.  
Hours: 54 Lecture. 54 Lab.

**ANIM 130**

**Modeling for Games**

**Units:** 4

**Advisory:** ANIM 101

**Transfers to:** UC/CSU

This course is an introduction to the basic principles used in 3-D modeling, UVW unwrapping, and texturing for games. The course is intended for beginning 3-D students and covers the tools and techniques used in the creation of 3-D game assets. This course is beneficial for all students in courses related to graphic arts (multimedia, illustration, web and game design, and film production) and industrial design (architectural, automotive, furniture, clothing, and product design).  
Hours: 54 Lecture. 54 Lab.

**ANIM 133**

**Character Design**

**Units:** 4

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course takes up the fundamentals of character design. Students learn the basics of character development by revising and polishing innovative designs of visually intriguing characters, and in so doing use and master gesture, construction, and anatomy in their designs. Further, students learn to use digital tools to sketch, paint, and build a visually compelling portfolio of characters.  
Hours: 54 Lecture. 54 Lab.

**ANIM 134**

**Mech and Vehicle Design**

**Units:** 4

**Advisory:** ANIM 101, ART 170, NART 175

**Transfers to:** UC/CSU

This course is geared towards designing mechs and vehicles of all types for the entertainment industry. Centered on digital drawing and rendering with Adobe Photoshop, students create and present finished portfolio pages. The

course takes students through a clear and efficient design process emphasizing storytelling, gesture, shape, and color.  
Hours: 54 Lecture. 54 Lab.

**ANIM 135  
Environment Design**

**Units:** 4

**Advisory:** ANIM 101, ART 170, NART 175

**Transfers to:** UC/CSU

This course introduces students to the artistic and technical requirements needed to work in the entertainment industry as environment artists. Through class projects students learn the latest techniques in the construction of game levels using Maya 3D modeling software and the Unity game engine. In addition to level design and the practical aspects of modeling and lighting, emphasis is placed on the artistic merit of students' work through value, color, design, and composition.

Hours: 54 Lecture. 54 Lab.

**ANIM 140  
Entertainment Art Portfolio**

**Units:** 4

**Prerequisite:** ANIM 101, ANIM 105

**Transfers to:** CSU

This course will prepare digital artists to talk about and present their artwork in a professional manner. Students will select an area of concentration within entertainment art and prepare a portfolio project using programs such as Photoshop CC, Premier CC, ZBrush, Maya, and the Unity game engine. This course is an excellent opportunity for students interested in developing and presenting a body of work that will help them take the next step in their professional career.

Hours: 54 Lecture. 54 Lab.

**ANIM 290  
Cooperative Work Experience/  
Internship for Animation Related  
Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under the supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in their area of vocational interest and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of animation and have completed or enrolled in the appropriate coursework. The course may be taken once and repeated for a maximum of 16 units; contact the Cooperative Work

Experience Education (CWEE) office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours

Hours: 60-300 Lab.

## ANTHROPOLOGY

### Division of Behavioral and Social Sciences

**ANTH 101**

**Introduction to Physical  
Anthropology (C-ID: ANTH 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ANTH 101 or ANTH 101H

In this course, people are investigated from the perspective of evolutionary theory. Students will learn about the process of natural selection and related issues including patterns of inheritance. Also included will be an examination of the closest living relatives to humans, primates, with an emphasis on behavior and ape societies. An extensive survey of human ancestors will trace the origins of various life forms and recount how ape-like creatures evolved into modern humans. Students will also discover how natural selection can be used as a tool to understand patterns of human variation. This course is designed for anthropology majors, those with an interest in anthropology, or anyone with a desire to further their understanding of humans from an evolutionary perspective.  
Hours: 54 Lecture.

**ANTH 101H**

**Introduction to Physical  
Anthropology Honors (C-ID: ANTH  
110)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limitation. Students will receive UC credit for only one of the following courses: ANTH 101 or ANTH 101H  
In this course, people are investigated from the perspective of evolutionary theory. Students will learn about the process of natural selection and related issues including patterns of inheritance. Also included will be an examination of the closest living relatives to humans, primates, with an emphasis on behavior and ape societies. An extensive survey of human ancestors will trace the origins of various life forms and recount how ape-like creatures evolved into modern humans. Students will also

discover how natural selection can be used as a tool to understand patterns of human variation. This course is designed for anthropology majors, those with an interest in anthropology, or anyone with a desire to further their understanding of humans from an evolutionary perspective.  
Hours: 54 Lecture.

**ANTH 101L**

**Physical Anthropology Lab (C-ID:  
ANTH 115L)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Prerequisite/Corequisite:** ANTH 101 or ANTH 101H

**Transfers to:** UC/CSU

This laboratory course, designed to complement the lecture course, is for students interested in expanding their knowledge of physical anthropology. Students are introduced to the methods, techniques, and procedures used in physical anthropology research, gaining practical experience by participating in lab activities and experiments using the scientific method. Lab exercises include an assessment of the forces that affect evolutionary change, the observation of primate behavior, the assessment of human variation, and the identification and classification of the skeletal features of humans, non-human primates, and human ancestors. Mendelian, molecular, and population genetics are also explored.  
Hours: 54 Lab.

**ANTH 102**

**Introduction to Cultural  
Anthropology (C-ID: ANTH 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ANTH 102 or ANTH 102H

The emphasis of this general education course is the investigation of human culture. By learning about the diversity of cultural practices around the world, students will be able to evaluate their identities within their own societies. In addition to discovering the theories and methods important to cultural anthropology, the course includes an extensive examination of cross-cultural diversity. Students learn about how people in different cultures obtain their food, exchange goods, organize themselves in groups, engage in politics, raise children, and worship supernatural beings. Also addressed is the issue of how cultural anthropology can contribute to addressing important problems in the modern world. The course is designed for anthropology majors, those with an interest in anthropology, or anyone with a desire

to further their understanding of human culture.  
Hours: 54 Lecture.

**ANTH 102H**  
**Introduction to Cultural Anthropology Honors (C-ID: ANTH 120)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ANTH 102 or ANTH 102H

The emphasis of this general education course is the investigation of human culture. By learning about the diversity of cultural practices around the world, students will be able to evaluate their identities within their own societies. In addition to discovering the theories and methods important to cultural anthropology, the course includes an extensive examination of cross-cultural diversity. Students learn about how people in different cultures obtain their food, exchange goods, organize themselves in groups, engage in politics, raise children, and worship supernatural beings. Also addressed is the issue of how cultural anthropology can contribute to addressing important problems in the modern world. The course is designed for anthropology majors, those with an interest in anthropology, or anyone with a desire to further their understanding of human culture. The course is intended for those who meet Honors Program requirements.  
Hours: 54 Lecture.

**ANTH 103**  
**Introduction to Archaeology (C-ID: ANTH 150)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of human world history and prehistory as identified by the archaeological record. Emphasis is placed on major changes in human technological, economic, and social development over the course of two million years of the human material record, including topics such as the history of archaeology, research ethics, data types, theory and methodology, dating techniques, survey and site excavation methods, analysis and interpretations, and reasons to preserve the past. Case studies from the excavation of major archaeological sites around the world are examined and discussed as examples. This course is for students who are interested in ancient history or the field of archaeology, or who plan to major in anthropology.  
Hours: 54 Lecture.

**ANTH 104**

**Introduction to Language and Culture (C-ID: ANTH 130)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students majoring in anthropology or anyone interested in learning about the diversity of communication forms and language systems around the world. The course investigates the development and evolution of language, the structure and sound systems of different languages, language loss and conservation, and the variations in different languages such as dialects and the social situations in which they are used. The different forms of verbal and non-verbal communication are studied across cultures with special attention paid to the use of technology like social media and the problems that arise in communication between people of different classes, genders, and ethnicities in our globalized world.  
Hours: 54 Lecture.

**ANTH 110**  
**Gender and Sexuality**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is an anthropological examination of sex, gender identity, roles, relations, and sexuality across cultures. Theories and methods of the anthropology of sex and gender along with the historical origins and development of this area of specialization in cultural anthropology are studied. Ethnographic or case studies of the fluidity of sex and gender in small-scale tribal societies around the world inform class material, as will industrialized examples of legal, political, and social issues.  
Hours: 54 Lecture.

**ANTH 115**  
**Introduction to Medical Anthropology**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

Medical anthropology explores the perceptions of disease, health, and healing in different cultures around the world. Sociocultural, biological, and ecological perspectives are used to understand the origins of illness and disease and medical practices across cultures. Topics include diagnosis and therapies, the role of healers like witch doctors and shamans, stress and mental health, unequal access to medical care, and medical anthropology applied to global health problems.  
Hours: 54 Lecture.

**ANTH 125**  
**Religion, Magic, Witchcraft, and the Supernatural**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is for students interested in learning about the diverse religious beliefs and practices that exist around the world. As an introduction to the anthropological study of religion, the course includes an overview of the various forms of religious belief systems; the variety of gods and other supernatural forces; the use of myths, rituals, and ceremonies in religious practice; and the types of shamans, priests, and other religious specialists found in religious systems. The religious use of drugs is explored, along with traditional healing practices and folk medicine remedies used in many Western cultures. A survey of witchcraft, sorcery, the occult, demons, exorcism rites, sacrificial practices, and magic is included. Additionally, concepts relating to death and the afterlife (e.g., souls, ghosts, reincarnation, and zombies) are explored.  
Hours: 54 Lecture.

## ARCHITECTURE

### Division of Career and Technical Education

**ARCH 101**  
**Introduction to Technical Drawing & Graphics**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This basic course in technical drawing and graphics is for students with no previous drafting skills or training who want to pursue training in fields and careers related to architecture, civil design, and engineering design drafting. Practical application with the tools, techniques, standards, and practices used in the industries that need technical drawings and graphics.  
Hours: 36 Lecture. 54 Lab.

**ARCH 103**  
**History of Architecture: Renaissance to Present**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course surveys the historical development of modern architecture from the Renaissance to the present day. The influence of technological, ecological, environmental, cultural, and socio-

economic factors on architecture are considered. Analysis of current and future trends and developments in contemporary architecture and environmental design is covered.  
Hours: 54 Lecture.

**ARCH 110**  
**Construction Document Reading and Estimating**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, be able to read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed for architecture students as well as apprentices and employees in all areas of the construction industry, and covers residential, light commercial, and industrial building construction. The course introduces the use of prints, construction documents, and the theory of construction estimating as used in the building industry. Principles of reading working drawings and plans; heating, ventilation, and air conditioning (HVAC) specifications; details and elevations; and electrical specifications are included, as are materials estimating, and estimating rules, tables, and procedures.  
Hours: 45 Lecture. 27 Lab.

**ARCH 115**

**Introduction to Residential Architecture: Drawing and Design**

**Units:** 4

**Advisory:** ENGT 101 or two years of high school drafting

**Transfers to:** CSU

This introductory course is for students interested in the field of architectural drawing and design. The course includes the study of architectural graphic standards related to creating construction drawings for residential projects (e.g., site plans, floor plans, roof plans, and elevations). Electrical, foundation and framing, and other drawings for a single-family residential structure are discussed. Emphasis is placed on symbology, conventions, and techniques to develop technical skills an entry-level architectural drafter needs. Construction methods, building codes, design factors, planning, and the use of reference materials are discussed and applied. All construction documents are developed using traditional board drafting methods and standards.  
Hours: 54 Lecture. 54 Lab.

**ARCH 125**

**Residential Architecture: Design & Construction**

**Units:** 4

**Prerequisite:** ARCH 115

**Advisory:** ENGT 150 or ENGT 170 or industry experience in CADD applications

**Transfers to:** CSU

This intermediate-level course is for students pursuing a degree or

certificate in architectural design and drawing, and is a requirement for both the A.S. degree and certificate. The course includes the study of common planning concerns as well as the most significant building ordinances and codes that influence the design of single-family residential spaces. As a component of the course, students prepare select architectural plans for a residential building project. Emphasis is placed on site planning, appropriate and accurate space dimensioning, door/window (safety) requirements, plumbing requirements, multi-story access, exterior surface coverings, and basic structural framing.  
Hours: 54 Lecture. 54 Lab.

**ARCH 215**

**Architectural Perspective and Rendering**

**Units:** 4

**Prerequisite:** ARCH 115

**Advisory:** ENGT 105

**Transfers to:** UC/CSU

In this course, students are introduced to the theory and practical application of perspective drawing and rendering as used in architecture. Topics include one and two-point perspectives, entourage, and an introduction to rendering techniques such as markers, pastels, pencil, pen, and ink. Presentation techniques also are discussed.  
Hours: 54 Lecture. 54 Lab.

**ARCH 225**

**Commercial Architecture: Design and Construction**

**Units:** 4

**Prerequisite:** ARCH 115

**Advisory:** ENGT 150 or ENGT 170 or industry experience in CADD applications

**Transfers to:** CSU

This advanced level course is for students pursuing an A.S. Degree or Certificate in Architecture and Architectural Design and Drawing. The course includes the study of common planning concerns as well as the most significant building ordinances and codes which influence the design of commercial spaces. As a component of the course, students will prepare select architectural plans for a commercial building project. Emphasis is placed on effective space utilization, technical plans, elevations, aesthetics, accessible requirements, site utilization and development, traffic flow, and landscaping.  
Hours: 54 Lecture. 54 Lab.

**ARCH 235**

**Architectural Design Studio**

**Units:** 4

**Prerequisite:** ARCH 215

**Advisory:** ENGT 150

**Transfers to:** UC/CSU

This course is for students pursuing an Associate in Science Degree in Architecture with the intent of transferring and continuing their study of architecture. Topics include multiple

design principles, concept applications, spatial and form definition, preliminary studies, interior and exterior space planning, site orientation, styles, and materials. Student design concepts are expressed verbally and graphically using presentation drawings, isometrics and perspectives, conceptual models, renderings, and photographs. Students develop skills in a studio atmosphere dealing with existing conditions, problem solving using design criteria, codes, and environmental relationships for abstract, residential, and small commercial structures.  
Hours: 54 Lecture. 54 Lab.

**ARCH 236**

**Architectural Design Studio II**

**Units:** 4

**Prerequisite:** ARCH 235

**Transfers to:** UC/CSU

This second-level course builds upon the foundation of the Architectural Design Studio course (ARCH 235). The course presents additional design approaches to the spatial and form definition of an architectural program; urban and site planning; and topographic, civil, and environmental issues. Architectural design proposals and projects are expressed verbally and graphically using presentation drawings, conceptual models, renderings, and photographs. Students enhance their design skills in a studio atmosphere, working to justify their design solutions.  
Hours: 54 Lecture. 54 Lab.

**ARCH 260**

**Residential Architecture Using Revit and 3D Software**

**Units:** 4

**Prerequisite:** ARCH 115, ENGT 150

**Transfers to:** CSU

This course is for students pursuing an Associate of Science Degree in Architecture or Architectural Design and Drawing with the intent of transferring and continuing their study of architecture. It presents an intensive study of building information modeling (BIM) applications as they relate to architecture. Utilizing the latest releases of *Revit* BIM software and technical and architectural drafting conventions learned in previous courses, students will produce two- and three-dimensional (2D and 3D) BIM-generated residential architectural drawings and 3D virtual models. High technology skills necessary to function as a designer or computer-aided design and drafting (CADD) drafter are emphasized.  
Hours: 54 Lecture. 54 Lab.

**ARCH 261**

**Commercial Architecture Using Revit with Structural and MEP Applications**

**Units:** 4

**Prerequisite:** ARCH 115, ENGT 150

**Transfers to:** CSU

This course is for students pursuing an Associate of Science Degree in



Architecture or Architectural Design and Drawing with the intent of transferring and continuing their study of architecture. It presents an intensive study of building information modeling (BIM) applications as they relate to architecture. Utilizing the latest releases of Revit software and technical and architectural drafting conventions learned previously in other courses, students will produce two- and three-dimensional (2D and 3D) BIM generated commercial architectural drawings and 3D virtual models. Advanced BIM applications extend the fundamentals learned in the Residential Architecture Using Revit and 3D Software course (ARCH 260) to include structural, mechanical, electrical, and plumbing extensions of the Revit software. High technology skills necessary to function as a designer or computer-aided design and drafting (CADD) drafter are emphasized.

Hours: 54 Lecture. 54 Lab.

#### **ARCH 280**

##### **Advanced MicroStation for CADD & BIM Applications (Same as ENGT 280)**

**Units:** 4

**Prerequisite:** ENGT 170 or appropriate CADD work experience

**Advisory:** ENGT 101 or two years of high school drafting

**Transfers to:** CSU

This course is for students pursuing advanced study in MicroStation 3D parametric CADD (Computer Assisted Design and Drafting) and the BIM (Building Information Modeling) approach to building design using Bentley Architecture digital modeling applications. Students apply previously learned drafting conventions to produce 2D and 3D CADD- and BIM-generated mechanical and architectural drawings and virtual design models. This course benefits all students studying architecture, civil engineering of all types, drafting, design, and computer graphics. Emphasis is placed on the high technology skills necessary to function as a designer or CADD drafter.

Hours: 54 Lecture. 54 Lab.

#### **ARCH 290**

##### **Cooperative Work Experience / Internship for Architecture Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in their area of vocational interest and will meet performance objectives related to

instruction that are above and beyond the conditions of regular employment. The course is intended for students whose job is in architectural design- or drafting-related fields and who have completed or enrolled in the appropriate courses. Instructor approval is necessary to enroll in this course. Contact the CWE office regarding re-enrollment procedures.

##### **Student Unpaid Internship:**

1 unit/60 hours; 2 units/120 hours; 3 units/180 hours; 4 units/240 hours

##### **Student Paid Internship:**

1 unit/75 hours; 2 units/150 hours; 3 units/225 hours; 4 units/300 hours  
Hours: 60-300 Lab.

#### **ARCH 299**

##### **Directed Study in Architecture Design & Drawing**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take Directed Study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## **ART**

### **Division of Arts and Cultural Programs**

#### **ART 101**

##### **Introduction to Studio Arts**

**Units:** 3

**It is advised that students be able to engage in written composition at a**

**college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This lecture/lab course provides an introduction to the studio arts for the non-art major providing an opportunity to learn about the arts through a series of lectures and hands-on projects within an art historical and conceptual framework. Project and topics include drawing, painting, printmaking, design, mixed media, and sculpture.  
Hours: 36 Lecture. 72 Lab.

#### **ART 104**

##### **Art of the Ancient Americas (C-ID: ARTH 145)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course provides a study of the indigenous arts of Mexico, Andean South America, and Central America, from civilizations including the Olmec, Maya, Aztec, Inca, Moche, Chavin de Huantar, and Nazca. Art of representative native tribes of the territory now encompassed by the United States and Canada will be comparatively examined. Works of art and architecture will be presented in relation to the various religious beliefs, political/ economic systems, and cultural practices of the ancient Americas. Art historical and archaeological methodologies relating to the understanding and interpretation of non-Western art will be discussed. This course is appropriate for students pursuing a degree in art or art history and/or students with an interest in American studies and Latin American studies.  
Hours: 54 Lecture.

#### **ART 105**

##### **Survey of Western Art: Prehistory through the Middle Ages (C-ID: ARTH 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ART 105 or ART 105H

This course presents a broad overview of Prehistoric, Mesopotamian, Egyptian, Greek, Etruscan, Roman, Early Christian, Islamic, and Medieval art and architecture. This course is appropriate for all students pursuing the degree in Studio Art or Art History or seeking to fulfill general education requirements in Fine Arts and Humanities.  
Hours: 54 Lecture.

#### **ART 105H**

##### **Survey of Western Art: Prehistory through the Middle Ages Honors (C-ID: ARTH 110)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ART 105 or ART 105H

This course presents a broad overview of Prehistoric, Mesopotamian, Egyptian, Greek, Etruscan, Roman, Early Christian, Islamic, and Medieval art and architecture. This course is appropriate for all students pursuing the degree in Studio Art and/or seeking to fulfill general education requirements in Fine Arts and Humanities. This course is designed for those who meet Honors Program Requirements.  
Hours: 54 Lecture.

#### **ART 106**

**Survey of Western Art: Renaissance to Contemporary (C-ID: ARTH 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ART 106 or ART 106H

This course provides an overview of the history of Western art from the 14<sup>th</sup> century through the Modern Era, including Renaissance, Baroque, Rococo, Neoclassicism, Romanticism, Realism, Early Photography, Impressionism, Post Impressionism, Modernism, Postmodernism, and major art developments of the 20<sup>th</sup> and 21<sup>st</sup> centuries. The course is appropriate for all students pursuing the degree in Studio Art or Art History, or seeking to fulfill general education requirements in Fine Arts and Humanities.  
Hours: 54 Lecture.

#### **ART 106H**

**Survey of Western Art: Renaissance to Contemporary Honors (C-ID: ARTH 120)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: ART 106 or ART 106H

This course provides an overview of the history of Western art from the 14<sup>th</sup> century through the Modern Era, including Renaissance, Baroque, Rococo, Neoclassicism, Romanticism, Realism, Early Photography, Impressionism, Post Impressionism, Modernism, Postmodernism, and major art developments of the 20<sup>th</sup> and 21<sup>st</sup> centuries. The course is designed for students who meet Honors Program requirements, and is appropriate for all students pursuing the degree in Studio Art or Art History, or seeking to fulfill general education requirements in Fine Arts and Humanities.  
Hours: 54 Lecture.

#### **ART 107**

**The Art of Asia (C-ID: ARTH 130)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the artistic traditions of prehistoric to modern Asia in relation to their cultural, philosophical, and religious influences. The art and architecture of Central Asia (India, China, Korea, and Japan) will be emphasized. Examples from Southeast Asia, Pakistan, Tibet, and Nepal will also be discussed. This course is appropriate for all students interested in art and culture and for those seeking to fulfill general education requirements for Fine Arts and Humanities, as well as all Studio Art majors.  
Hours: 54 Lecture.

#### **ART 108**

**The Art of Mexico**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of the art and architecture of Mexico including PreColumbian, Viceregal (Colonial) and Modern 19th and 20th centuries. Chicano art will also be examined in relation to its Mexican antecedents. Art 108 is appropriate for all students interested in art and culture and for those seeking to fulfill general education requirements in Fine Arts and Humanities, as well as all studio art and art history majors.  
Hours: 54 Lecture.

#### **ART 109**

**History of American Art**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course includes a study of American art and architecture from the colonial period to the early 20th century. The focus is on the art of the United States, with a close examination of the country's artistic exchanges with Canada, Mexico, and South America. This course is appropriate for students with an interest in American studies, Latin American studies, those seeking to fulfill the general education requirements in Fine Arts and Humanities, the AA Degree in General Studies in Arts and Human Expression and/or the AA-T Degree in Art History.  
Hours: 54 Lecture.

#### **ART 110**

**Understanding Visual Art (C-ID: ARTH 100)**

**Units:** 3

**It is advised that students be able to engage in written composition at a**

**college level and read college-level texts.**

**Transfers to:** UC/CSU

This lecture course is an introduction to the study of visual art: its vocabulary and forms, the many roles it plays in society, and the variety of processes artists master in its making. Students gain insight into current approaches used to interpret and derive meaning from art, and explore questions about the ways in which value is assigned to the art object. Using examples from cultures around the world and across time, this course offers a broad overview to students interested in art and culture, and to those seeking to fulfill general education requirements in Arts.  
Hours: 54 Lecture.

#### **ART 112**

**Visual Art in the Modern Era (C-ID: ARTH 150)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of developments in art and architecture from the early 19th through the 20th century, and into the 21st. From Neoclassicism and Romanticism through Postmodernism and contemporary art, visual art movements are discussed in relation to stylistic trends, philosophical influences, innovations in technology, and other historical and social contexts. The roles played by the artist, critic, and consumer in shaping these movements are examined, as well as visual art's impact upon society in the Modern era. This course is appropriate for all students pursuing the degree in Art History and/or seeking to fulfill general education requirements in Arts.  
Hours: 54 Lecture.

#### **ART 113**

**The History of Photography**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This lecture course examines the history of photography from its invention in the 1830s to the present. The technological development, social role, and aesthetic possibilities of photography will be discussed in relation to major historical, art historical, cultural, and political influences. This course is appropriate for all students interested in photography, art, and art history and culture and for those seeking to fulfill the general education requirement for Fine Arts and Humanities, as well as Studio Art majors and Art History majors.  
Hours: 54 Lecture.

#### **ART 115**

**The Art of Film (C-ID: FTVE 105)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This introductory course explores film as an art form, its basic components, and its relation to the styles and movements of other visual arts forms. An understanding of cinematic language is emphasized by focusing upon film's manipulation of time and space, its use of visual metaphors, montages, and explicit/implicit messages. The collaborative nature of filmmaking is studied by examining the role of cinematography, lighting, film editing, visual effects, art direction, and the use of sound and music to enhance the script and create style. Through discussion and written assignments, students develop the ability to analyze the impact of films viewed both in and out of class. This course is appropriate for any student interested in film, art, media studies, or culture.  
Hours: 54 Lecture.

**ART 117****History of World Ceramics****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course provides the student with an introduction to world ceramic and pottery traditions: its vocabulary, its forms, the roles it plays in society, and the variety of processes employed by its makers. Using examples from cultures around the world and across time, this course offers a broad overview to any student interested in art and culture.  
Hours: 54 Lecture.

**ART 120****Two Dimensional Design (C-ID: ARTS 100)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This is a foundational first semester course and is open to any student interested in the fundamentals of visual thinking as they apply to all visual media. This course provides an introduction to the concepts, applications, and art historical references related to two-dimensional art and composition, and includes the study of the basic elements of line, shape, texture, value, color and spatial illusion. Students will develop a visual vocabulary for creative expression through lecture presentations, studio projects, and written assignments.  
Hours: 36 Lecture. 72 Lab.

**ART 121****Three Dimensional Design (C-ID: ARTS 101)****Units:** 3**Advisory:** ART 120**Transfers to:** UC/CSU

This is a foundational first semester art course and is open to all students interested in the fundamentals of visual thinking as they apply to all three dimensional media. This course provides an introduction to the concepts, applications, and art historical references related to three-dimensional art, and includes the basic elements and principles of three-dimensional design. Students will develop a visual vocabulary for creative expression through lecture, slide and video presentations, and studio projects using a variety of tools and written assignments.  
Hours: 36 Lecture. 72 Lab.

**ART 124****Color Theory (C-ID: ARTS 270)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an introduction to the characteristics of color and its interaction suited for all art majors transferring to a four-year college or interested in working in the arts as a painter, illustrator or designer. The course will cover the principles, theories, and applications of additive and subtractive color in two dimensions. Topics will include major historical and contemporary color systems, production of projects in applied color, and the elements of design as they apply to color.  
Hours: 36 Lecture. 72 Lab.

**ART 130****Freehand Drawing I (C-ID: ARTS 110)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course for art and non-art majors interested in developing basic drawing skills is an introduction to observational drawing and composition. In the course, students develop the ability to perceive and define shape, contour, volume, space, and light using a variety of drawing media and subject matter. Emphasis is on clarity of observation and the ability to order and translate 3D form and space into 2D drawings.  
Hours: 36 Lecture. 72 Lab.

**ART 131****Freehand Drawing II (C-ID: ARTS 205)****Units:** 3**Prerequisite:** ART 130**Transfers to:** UC/CSU

This is a second semester course for art and non-art majors in observational drawing and composition, stressing an advanced ability to perceive and define

shape, contour, volume, space, and light. Students will use a variety of drawing media and subject matter. Emphasis is on strengthening skills introduced in Freehand Drawing I, the exploration of color in drawing and concepts related to content.  
Hours: 36 Lecture. 72 Lab.

**ART 135****Beginning Painting (C-ID: ARTS 210)****Units:** 3**Advisory:** ART 130**Transfers to:** UC/CSU

This is a first semester course for art and non-art majors interested in developing basic painting skills. The course explores both traditional and contemporary painting techniques while stressing an ability to perceive and define shape, contour, volume, texture, space, and light using acrylic or oil painting media. Emphasis is on learning the techniques of painting, understanding the use of color, strengthening observation and rendering skills, while providing an understanding of the historical and cultural development of painting in human expression and creativity. Students are advised to have some drawing skills before taking this class.  
Hours: 36 Lecture. 72 Lab.

**ART 136****Intermediate Painting****Units:** 3**Prerequisite:** ART 130, ART 135**Transfers to:** UC/CSU

This is a second semester course for art and non-art majors interested in further development of painting skills and techniques, understanding the use of color and space, while strengthening observation and rendering skills. The course explores both traditional and contemporary painting concepts, styles, and techniques that involve complex compositional and technical problems in either acrylic or oil painting media.  
Hours: 36 Lecture. 72 Lab.

**ART 140****Ceramics I****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This is an introductory course open to all art and non-art majors interested in learning basic skills in ceramics using the potter's wheel. Students will develop a visual vocabulary for creative expression through lectures, power point, vocabulary lists and video presentations. This course covers beginning problems of centering, throwing and shaping various functional and non-functional pottery. Students will be introduced to the process of glazing and basic firing techniques. This course emphasizes exploring personal and cultural expression in the ceramic media. Evaluation will be based on using a



variety of tools and writing assignments.

Hours: 36 Lecture. 72 Lab.

**ART 141  
Ceramics II**

**Units:** 3

**Prerequisite:** ART 140

**Transfers to:** UC/CSU

This is an intermediate course in ceramics open to all art and non-art majors, with continued emphasis on basic skills using the potter's wheel. Included in the course will be intermediate problems on the wheel, basic decorative techniques, and more advance use of glaze. Students will be exploring contemporary artistic practice and the social and historical elements of ceramic art. The students will start learning about the kilns and how they are loaded and fired.

Hours: 36 Lecture. 72 Lab.

**ART 142  
Introduction to Ceramic  
Handbuilding**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Advisory:** ENGL 101

**Transfers to:** UC/CSU

This is a first semester course for art and non-art majors. It is designed to introduce students to the concepts, techniques, history, and contemporary practices of handbuilding in the ceramics arts. This class is for any student who is interested in the fundamentals of clay construction using hand-building technique.

Hours: 36 Lecture. 72 Lab.

**ART 143  
Ceramic Handbuilding II**

**Units:** 3

**Prerequisite:** ART 142

**Transfers to:** UC/CSU

This is an intermediate course in ceramics open to all art and non-art majors, with continued emphasis on basic skills in hand building. Included in the course will be a emphasis on exploring handbuilt forms in both vessels and ceramic sculpture. Students will solve visual and conceptual problems dealing with art and principles of design i.e. line, shape, color, form, texture, and space.

Hours: 36 Lecture. 72 Lab.

**ART 144  
Advanced Handbuilding**

**Units:** 3

**Prerequisite:** ART 141

**Transfers to:** UC/CSU

This advanced course in ceramics is open to all art and non-art majors, with continued emphasis on skills and ceramic art theory. The course allows for students to consider complex problems of ceramic art as they work with the ceramic medium in conjunction with other materials (e.g., wood, metal, and glass), explore clay surface design, and develop a hand-built body of ceramic work.

Hours: 36 Lecture. 72 Lab.

**ART 145  
Glaze Composition**

**Units:** 3

**It is advised that students have the ability to conduct basic calculations using fractions, decimals, and percentages**

**Prerequisite:** ART 140 or ART 142

**Transfers to:** CSU

This course provides an introduction to basic glaze and clay calculations. The students will learn to calculate glaze formulas and batch recipes. Students will analyze glazes and clay bodies. They will learn to formulate and alter glazes and clay bodies. The course involves mathematical computations as well as basic ceramic laboratory skills and safety precautions for handling chemicals. This course teaches students how to create unique glazes for their art work.

Hours: 27 Lecture. 81 Lab.

**ART 146  
Introduction to Sculpture**

**Units:** 3

**Prerequisite:** ART 121

**Advisory:** ART 130

**Transfers to:** UC/CSU

This course is suited for art majors transferring to a four-year college or any student interested in working in the arts. It provides an introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.

Hours: 36 Lecture. 72 Lab.

**ART 147  
Ceramic 3D Printing**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is an introduction to exploring 3D ceramic concepts through art and design using digital tools. Students are introduced to a digital workflow during the process of producing traditional forms of art. Students learn software, hardware, and other aspects of the production process utilized in ceramic 3D printing. This course is beneficial for all students interested in studio arts, entertainment design, and industrial design.

Hours: 36 Lecture. 72 Lab.

**ART 150  
Beginning Printmaking**

**Units:** 3

**Advisory:** ART 130

**Transfers to:** UC/CSU

This course is an introduction to the art of printmaking suitable for studio art majors transferring to a four-year college or any student interested in working in the arts. This course is an introduction to the basic materials, equipment, and processes of printmaking, including relief (linocut

and woodcut), intaglio (drypoint, etching, and collagraph), planography (lithography and monotype), and stencil (screenprint).

Hours: 36 Lecture. 72 Lab.

**ART 151  
Intermediate Printmaking**

**Units:** 3

**Prerequisite:** ART 150

**Transfers to:** UC/CSU

This is a second semester course for the art and non-art major in the continued study of intaglio and relief fine art printmaking processes. This course will expand upon techniques and skills students learned in Beginning Printmaking, ART 150 including color printing techniques. While stressing creativity and expression students will also learn the practice of creating an edition.

Hours: 36 Lecture. 72 Lab.

**ART 160  
Rendering and Illustration**

**Units:** 3

**Advisory:** ART 130

**Transfers to:** UC/CSU

Intended for the student interested in developing skills in rendering and illustration, this course is a beginning course in illustration and rendering exploring both traditional and contemporary drawing techniques, stressing an ability to perceive and define shape, contour, volume, texture, space, and light both realistically as well as expressively using various media. Emphasis is on learning the techniques of illustration, understanding the use of color, while strengthening observation and rendering skills.

Hours: 36 Lecture. 72 Lab.

**ART 161  
Advanced Rendering and Illustration**

**Units:** 3

**Prerequisite:** ART 160

**Advisory:** ART 130

**Transfers to:** CSU

Intended for the student interested in developing skills in rendering and illustration, this course is an advanced course in illustration and rendering exploring both traditional and contemporary drawing techniques while stressing an ability to perceive and define shape, contour, volume, texture, space, and light both realistically as well as expressively using various media. Emphasis is on learning the advanced techniques of illustration, understanding the use of color, while strengthening observation and rendering skills.

Hours: 36 Lecture. 72 Lab.

**ART 170  
Introduction to Digital Painting (C-ID: ARTS 250)**

**Units:** 3

**Prerequisite:** ART 130

**Transfers to:** UC/CSU

This course is designed for students majoring in the Visual Arts: including Fine Arts, Illustration, Animation, Graphic Design and any student

interested in learning to use the computer as a tool for original image making. The course will survey traditional drawing and painting techniques using computer technologies such as software, drawing tablets, scanners and printers. Students will investigate the fundamental pictorial elements of line, shape, space, color, and texture as well as the formal relationship of these elements to produce original works of art while learning the technology, concepts, and practices of digital art production. Hours: 36 Lecture. 72 Lab.

**ART 185**  
**Art Studio**  
**Units: 1**

**Transfers to:** UC/CSU  
This course is designed to provide supervised studio study on an individual basis with various projects. Arranged: 4 hours lab. Offered on a pass-no pass basis. Hours: 72 Lab.

**ART 190**  
**Gallery and Exhibition Design**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU  
This course is a combination of studio and lecture that provides students with creative experience in exhibition design and display. It is appropriate for all students interested in art, art exhibitions, museum studies, and cultural studies. The topics addressed include exhibition space planning, principles of color and design, art exhibition principles, and proper care and handling of art objects. Students are also given an introduction to the basic principles of art curating and display. Hours: 36 Lecture. 72 Lab.

**ART 230**  
**Beginning Life Drawing (C-ID: ARTS 200)**  
**Units: 3**

**Prerequisite:** ART 130  
**Transfers to:** UC/CSU  
This is a first semester course for art, animation, and non-art majors interested in developing the basic drawing skills of representing the human figure. As an introduction to observational figure drawing and composition, students will develop the ability to perceive and define the anatomy and structural organization of the human form in terms of expressive design and creative use of drawing media. Hours: 36 Lecture. 72 Lab.

**ART 231**  
**Intermediate Life Drawing**  
**Units: 3**

**Prerequisite:** ART 230  
**Transfers to:** UC/CSU  
This is a second semester course for art, animation, and non-art majors

interested in furthering their figure drawing skills. Working from a professional figure model, students will refine those skills learned in ART 230 and learn intermediate drawing skills, study human anatomy in greater detail, and extend their knowledge regarding the use of the figure in visual art. Emphasis is on clarity of observation and the ability to order and translate form and space on a two dimensional surface. Hours: 36 Lecture. 72 Lab.

**ART 232**  
**Advanced Life Drawing**  
**Units: 3**

**Prerequisite:** ART 231 or ART 260 (formerly ANIM 260)  
**Transfers to:** UC/CSU  
This is a third semester course for art, animation, and non-art majors interested in furthering their figure drawing skills. Students will refine those skills learned in the prerequisite courses and learn advanced drawing skills, study the human anatomy in greater detail, and extend their knowledge regarding the use of the figure in visual art. Hours: 36 Lecture. 72 Lab.

**ART 233**  
**Freehand Drawing III**  
**Units: 3**

**Prerequisite:** ART 131  
**Transfers to:** UC/CSU  
This course is a third semester course in drawing and composition. Students will address more complex problems and a broader range of media, including color, will be utilized. Advancing observational skills and conceptual development through a range of subject matter, technical refinement, and thematic development will be emphasized. Exploration of individual creative interpretation, process, and intent in order to deepen the student's studio practice and investigation will be stressed. Hours: 36 Lecture. 72 Lab.

**ART 234**  
**Watercolor Painting**  
**Units: 3**

**Prerequisite:** ART 130  
**Transfers to:** UC/CSU  
This course is an introduction to various transparent watercolor techniques including wash and glazing. Applications of drawing, beginning painting, and design fundamentals to these techniques are included as well as the communicative element of content. Hours: 36 Lecture. 72 Lab.

**ART 235**  
**Advanced Painting I**  
**Units: 3**

**Prerequisite:** ART 136  
**Transfers to:** UC/CSU  
This is a third semester course in painting for the art and non-art major. The course constitutes a study of advanced painting problems stressing experimentation with traditional and contemporary methods of painting,

composition, and expression. Class and individual projects using figure, still life, landscape, abstraction, shaped format, altered scale and material exploitation will be stressed. Hours: 36 Lecture. 72 Lab.

**ART 236**  
**Advanced Painting II**  
**Units: 3**

**Prerequisite:** ART 235  
**Transfers to:** UC/CSU  
This is a fourth semester course in painting for the art and non-art major. This course explores experimentation with traditional and contemporary methods of painting using the figure, still life, landscape, abstraction and non-objective imagery with an emphasis on continuing skill development and problem solving of interpretation, expression and conceptual issues in painting. Hours: 36 Lecture. 72 Lab.

**ART 242**  
**Advanced Ceramics**  
**Units: 3**

**Prerequisite:** ART 141  
**Transfers to:** UC/CSU  
This is an advanced course in ceramics, open to all art and non-art majors. This class places a special emphasis on personal growth and aesthetics as well as increased proficiency on the potter's wheel. Students will explore the concepts of management and expressive exploration of the unique characteristics of fired ceramics – both the opportunities and constraints presented in the processing of clay from a soft, plastic, fragile, impermanent substance into a hard, rigid, and completely metamorphosed material after drying and firing. It is a process that requires sensitivity to time and sequence, and demands critical informed technical management. An important aspect of the class will be having students evaluate their selection of type of clay, decorative techniques and final-firing process to achieve their desired finished results. Included in this course will be advanced problems-solving in forms, shapes, decorative techniques and glazing. Hours: 36 Lecture. 72 Lab.

**ART 252**  
**Advanced Printmaking**  
**Units: 3**

**Prerequisite:** ART 151  
**Transfers to:** UC/CSU  
This is a third semester course for the art and non-art major in the continued study of intaglio and relief fine art printmaking processes. This course will expand upon techniques and skills students learned in Intermediate Printmaking, ART 151. Students will improve printing skills enhanced by supervised repetition and practice within class periods and learn to create an edition of original prints. Hours: 36 Lecture. 72 Lab.

**ART 260**  
**Figure Drawing for Animators**

**Units:** 3

**Prerequisite:** ART 230

**Transfers to:** UC/CSU

This figure drawing course for animators and art students focuses on gesture and how to capture the essential movement, dynamic expression, and the individual attitude of the model. It provides an introduction to figure drawing for animation and is designed to promote deeper understanding of life drawing that will serve as a foundation for further studies in animation and entertainment arts. Students will refine basic skills in drawing human anatomy while learning to draw the figure in sequential movement, understand weight and balance, facial and body expression, and figure invention. This course may be taken by art majors wishing to further life drawing skills and is recommended for all animation art majors.

Hours: 36 Lecture. 72 Lab.

### **ART 290**

#### **Cooperative Work Experience/ Internship for Visual Arts Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business, industrial, studio, non-profit and professional art organizations under supervision of a college instructor, facilitated by the use of learning objectives. The student will be working in a skilled- or professional-level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of visual arts and have completed or enrolled in the appropriate coursework. Instructor approval is required to remain in the class. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 60-300 Lab.

### **ART 299A**

#### **Directed Study in Art History**

**Units:** 1-3

**Advisory:** ART 104 or ART 105 or ART 105H or ART 106 or ART 106H or ART 107 or ART 108 or ART 109 or ART 112 or ART 113 or ART 115

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or

appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

### **ART 299C**

#### **Directed Study in Ceramics**

**Units:** 1-3

**Prerequisite:** ART 141

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

### **ART 299D**

### **Directed Study in Drawing**

**Units:** 1-3

**Prerequisite:** ART 232 or ART 233

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

### **ART 299F**

#### **Directed Study in Artistic Anatomy**

**Units:** 1-3

**Prerequisite:** ART 232

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is

responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

#### **ART 299G**

##### **Directed Study in Gallery and Museum Practices**

**Units:** 1-3

**Advisory:** ART 105 or ART 105H or ART 106 or ART 106H or ART 112 or ART 190

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

#### **ART 299P**

##### **Directed Study in Painting**

**Units:** 1-3

**Prerequisite:** ART 236

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a

regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

#### **ART 299PP**

##### **Directed Study in Portfolio Preparation**

**Units:** 1-3

**Prerequisite:** ART 131 or ART 136 or ART 141 or ART 142 or ART 170 or ART 231 or GDSN 178

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

#### **ART 299S**

##### **Directed Study in Sculpture**

**Units:** 1-3

**Prerequisite:** ART 121 or ART 142 or ART 146

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or

appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

## **AMERICAN SIGN LANGUAGE**

### **Division of Communications and Languages**

#### **ASL 101**

##### **American Sign Language I**

**Units:** 4.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course will provide an introduction to American Sign Language, emphasizing receptive and expressive skills. The use of facial expressions during signing will also be addressed. Students will be exposed to deaf culture experiences in the classroom and other environments. In addition to classroom discussion, students will receive intensive individualized practice in American Sign Language via interactive websites, video programs, and CD-ROMs. This course is designed for students who want to learn how to communicate with people who are deaf and hard of hearing.

Hours: 72 Lecture. 27 Lab.

#### **ASL 102**

##### **American Sign Language II**

**Units:** 4.5

**Prerequisite:** ASL 101 or two years of high school ASL with a "C" or better, or successfully pass an interview and comprehensive exam developed by the



department demonstrating competency of the skills required in an ASL I course.

**Transfers to:** UC/CSU

This course will provide a continuation to American Sign Language I (ASL 101), emphasizing receptive and expressive skills. The use of facial expressions during signing will also be addressed. Students will be exposed to deaf culture experiences in the classroom and other environments. In addition to classroom discussion, students will receive intensive individualized practice in the language laboratory via interactive websites, video programs, and CD-ROMs. This course is designed for students who want to learn how to communicate with people who are deaf and hard of hearing.

Hours: 72 Lecture. 27 Lab.

### **ASL 120**

#### **Introduction to Deaf Studies**

**Units:** 3

**Prerequisite:** ASL 101

**Transfers to:** UC/CSU

This course introduces students to the basic information of the American Deaf experience in the United States: Deaf community/culture and American Sign Language. This course exposes students to the history, contributions and contemporary lives of Deaf people in America. This course is interdisciplinary in that it introduces a range of issues that are developed in the purview of Deaf Studies — linguistics, education, sociology, psychology and other fields. This course will be taught using a combination of ASL and spoken English and may or may not have interpreters facilitating the lectures depending on the instructor.

Hours: 54 Lecture.

### **ASL 124**

#### **Deaf Culture**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Prerequisite/Corequisite:** ASL 102

**Transfers to:** UC/CSU

This course will cover basic information and research on deaf culture, deaf children and their upbringing, deaf education, the importance of American Sign Language to the deaf community, deaf societies around the world, and advances in and usage of technology for people who are deaf or hard of hearing. The course will focus on research and progress within deaf culture. This course will be taught using a combination of American Sign Language and spoken English and, depending on the instructor, may or may not have interpreters facilitating the lectures.

Hours: 54 Lecture.

### **ASL 201**

#### **American Sign Language III**

**Units:** 4.5

**Prerequisite:** ASL 102 (formerly ASL 150)

**Transfers to:** UC/CSU

This course will focus on refining students' knowledge of the grammatical structure and lexicon of American Sign Language as these things relate to its historical, artistic, and cultural influence in mainstream society, with an emphasis on receptive/ expressive conversational and cultural skills for communication. In addition to classroom discussion, students will receive intensive individualized practice in the language laboratory via interactive websites, video programs, and CD-ROMs.

Hours: 72 Lecture. 27 Lab.

### **ASL 202**

#### **American Sign Language IV**

**Units:** 4.5

**Prerequisite:** ASL 201

**Transfers to:** CSU

This course will provide a continuation to American Sign Language III (ASL 201). The course will focus on the use of American Sign Language in practical applications through discussing relevant topics like math, current events, arts, and various other topics, with an emphasis on applying the language in real world interactions. In addition to classroom discussion, students will receive intensive individualized practice in the language laboratory via interactive websites, video programs, and CD-ROMs.

Hours: 72 Lecture. 27 Lab.

### **ASL 211**

#### **Beginning Interpreting + Ethics 1**

**Units:** 3

**Prerequisite:** ASL 102

**Transfers to:** UC/CSU

In this course, students survey basic theories, principles, and practices of interpreting/transliterating, including basic ethical considerations, a historical overview of the interpreting profession, and discuss the professional role of the interpreter. Students begin the development of interpreting/transliterating processing skills. This course will be taught using a combination of ASL and spoken English, and may or may not have interpreters facilitating the lectures depending on the instructor.

Hours: 54 Lecture.

### **ASL 212**

#### **Beginning Interpreting + Ethics 2**

**Units:** 3

**Prerequisite:** ASL 201, ASL 211

**Transfers to:** UC/CSU

In this course, students will continue to learn theories, principles, and practices of interpreting/transliterating including more complex ethical considerations, a current overview of the interpreting profession, and discuss the professional role of the interpreter in today's workforce. This course is designed to allow students to pursue a degree in ASL interpreting. This course will be taught using a combination of ASL and spoken English and may or may not

have interpreters facilitating the lectures depending on the instructor.

Hours: 54 Lecture.

### **ASL 220**

#### **Pathways to Interpreting Careers**

**Units:** 2

**Prerequisite:** ASL 201, ASL 211

**Transfers to:** CSU

In this course students will learn business practices in the profession of interpreting. They will explore various career paths available to ASL interpreters from staff positions to independent contractors. Students will learn legal considerations within the state of California and beyond as they apply to interpreting. This course will be taught using a combination of ASL and spoken English and may or may not have interpreters facilitating the lectures depending on the instructor.

Hours: 36 Lecture.

### **ASL 250**

#### **ASL Linguistics**

**Units:** 3

**Prerequisite:** ASL 102

**Advisory:** ENGL 101

**Transfers to:** UC/CSU

This course will serve as an introductory course in linguistics, with a special emphasis on American Sign Language (ASL). Students will learn basic linguistic concepts such as phonology, morphology, and syntax as they apply to all languages. Students will further their knowledge of linguistics as it relates specifically to ASL. No prior knowledge of linguistics is needed to take this course. Upon completion of this course students will be able to pursue careers related to Deaf education or ASL pedagogy. This course will be taught using a combination of ASL and spoken English and may or may not have interpreters facilitating the lectures depending on the instructor.

Hours: 54 Lecture.

### **ASL 270**

#### **ASL Literature**

**Units:** 3

**Prerequisite:** ASL 201

**Advisory:** ASL 250

**Transfers to:** UC/CSU

This course will take students on a journey through the history and current status of the literary body of American Sign Language (ASL). This is a rare opportunity to explore a body of literature in its infancy stages. Students will analyze videos and books created or written by ASL poetic performers or authors. Word choices, deeper meanings, and metaphors used will be discussed. This course will be taught using a combination of ASL and spoken English and may or may not have interpreters facilitating the lectures depending on the instructor.

Hours: 54 Lecture.

### **ASL 280**

#### **ASL Storytelling**

**Units:** 2

**Prerequisite:** ASL 124, ASL 201

**Transfers to:** UC/CSU

This course is designed to further refine the student's knowledge and mastery of American Sign Language (ASL) through the practical application of storytelling. Students will study master storytellers and analyze their techniques. Upon completion of this course, students will have created multiple original stories in ASL. These are necessary skills to achieve fluency in ASL.

Hours: 36 Lecture.

**ASL 299****Directed Study: American Sign Language**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

## ASTRONOMY

### Division of Mathematics, Sciences, and Engineering

**ASTR 110****General Astronomy**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts and have a knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit from UC for only one of the following courses: ASTR 110 or ASTR 110H

This descriptive, nonmathematical course is designed for students who want to develop an appreciation of astronomy and a broad cosmic perspective. The emphasis of the course is on the current state of knowledge about our solar system, our galaxy, and the universe. Topics on the frontier of astronomical knowledge such as black holes and the search for extraterrestrial life are explored. This course is designed for students with an interest in astronomy or anyone who desires to expand their cosmic horizons.

Hours: 54 Lecture.

**ASTR 110H****General Astronomy Honors**

**Units:** 3

**It is advised that students be able to read college-level texts and have a knowledge of elementary algebra concepts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ASTR 110 or ASTR 110H

This descriptive, nonmathematical course is designed for students who want to develop an appreciation of astronomy and a broad cosmic perspective. The emphasis of the course is on the current state of knowledge about our solar system, our galaxy, and the universe. Topics on the frontier of astronomical knowledge such as black holes and the search for extraterrestrial life are explored. This course is designed for students with an interest in astronomy or anyone who desires to expand their cosmic horizons. It is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

**ASTR 112****Observational Astronomy**

**Units:** 1

**Advisory:** It is advised that students be able to engage in written composition at a college level, read college-level texts and have a knowledge of elementary algebra concepts.

**Prerequisite/Corequisite:** ASTR 110

**Transfers to:** UC/CSU

This course is designed to acquaint students with the methods, techniques, and tools of the astronomer. Indoor labs demonstrate classical methods and techniques of science. Students learn the critical thinking processes needed to acquire and analyze scientific data; become familiar with visible objects including constellations, planets, star clusters, galaxies, meteors, and the phases of the moon; and learn to locate objects visually and use astronomical coordinate systems. The development of skills in the operation of optical telescopes is emphasized. This course is designed for students with an interest in learning about night skies and the

tools astronomers use to explore the cosmos. Observatory facilities are utilized often, weather permitting.

Hours: 54 Lab.

**ASTR 137****An Introduction to Cosmology: From the Big Bang to the Multiverse**

**Units:** 4

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an elementary algebra course. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course introduces students to the science of cosmology and the study of the origins and development of the universe. The course covers Newtonian mechanics, Einstein's theories of special relativity and the curvature of space-time, the Big Bang theory, the cosmic microwave background, cosmic inflation, dark matter and energy, and associated evidence and theories that explain these phenomena, including string theory and multiverse theory. Laboratory topics cover the conceptual underpinnings of observational cosmology through experiments in modern and classical physics. This course is intended for students who are enthusiastic cosmology amateurs and requires only a high school-level mathematics background.

Hours: 54 Lecture. 54 Lab.

**ASTR 299****Directed Study: Astronomy**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title 5 regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3)

units within a discipline, and may not accumulate more than a total of twelve (12) units college wide.  
Hours: 54-162 Lab.

## AUTOMATION

### Division of Career and Technical Education

#### ATMN 101

##### Introduction to Automation

##### Applications

Units: 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This exploratory course in automation utilizes hands-on modules in mechanical, electronics (mechatronics), and robotics technology. Students will develop the entry-level skills required for high-demand and high-paying careers.

Hours: 45 Lecture. 27 Lab.

#### ATMN 102

##### Shop Safety and Measurements

Units: 2

**It is advised that students be able to read college-level texts and have a knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course covers OSHA 10 safety training. In addition, students obtain skills to solve technical problems by doing practical applications of basic math and arithmetic in industrial (shop) applications. Topics include units of measure and conversions, reading tools of measurement, error calculation and propagation, reading graphs and plots, and using geometry to calculate perimeter/area/volume.

Hours: 27 Lecture. 27 Lab.

#### ATMN 105

##### Technical Writing and Communication

Units: 2

**It is advised that students be able to engage in college composition written at a college level and to read college-level texts.**

**Transfers to:** CSU

This course introduces the principles and practices of writing in a wide range of technical documents including emails, letters, technical reports, and presentations used in technology fields and engineering. The use of graphical information such as tables and charts are covered, as well as technical resumes, letters, and instruction and operation manuals.

Hours: 27 Lecture. 27 Lab.

#### ATMN 110

##### Engineering Graphics with SolidWorks

Units: 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course covers the fundamentals of engineering graphics including descriptive geometry and orthographic projection to help with visualization, and utilizing SolidWorks software to practice solid modeling and Three-Dimensional Computer Aided Design (CAD). Students are prepared for the Certified SolidWorks Associate exam (CSWA), an industry-valued credential.

Hours: 36 Lecture. 54 Lab.

#### ATMN 115

##### Print Reading with Geometric Dimensioning and Tolerancing

Units: 2

**Prerequisite:** ATMN 110

**Transfers to:** CSU

This course covers the principles and practices of visualizing and interpreting engineering drawings and prints by going over actual prints from various industries. The main topics are the study of drawing types, symbology, drawing management, industry standards, and ASME Y14.5 standard for Geometric Dimensioning and Tolerancing.

Hours: 27 Lecture. 27 Lab.

#### ATMN 120

##### DC and AC Fundamentals

Units: 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course in direct current (DC) and alternating current (AC) electricity is for students and for those contemplating a career in the electrical/electronics industry. Course content includes basic theories, resistance, capacitance, inductance, simple DC and AC circuits, transformers, measuring instruments, batteries, motors, and generators.

Hours: 45 Lecture. 27 Lab.

#### ATMN 125

##### Basic Programmable Logic Controllers

Units: 2

**Prerequisite:** ATMN 120

**Transfers to:** CSU

This course introduces Basic Programmable Logic Controllers (PLC), programming devices, ladder diagrams, and designing basic PLC programs for automation processes.

Hours: 18 Lecture. 54 Lab.

#### ATMN 130

##### Mechanical Systems

Units: 2

**Advisory:** ATMN 102

**Transfers to:** CSU

This course presents fundamental concepts of mechanical drives and systems, including safe operation,

installation, alignment, troubleshooting, and maintenance of a range of mechanical drives in automated manufacturing systems.

Hours: 18 Lecture. 54 Lab.

#### ATMN 135

##### Fluid Systems

Units: 2

**Advisory:** ATMN 102

**Transfers to:** CSU

This course presents the fundamentals of hydraulic and pneumatic systems, including safe operation, installation, troubleshooting, and maintenance of control systems in automated manufacturing systems.

Hours: 18 Lecture. 54 Lab.

#### ATMN 140

##### Introduction to Robotics and Programming

Units: 2

**Advisory:** ATMN 102

**Transfers to:** CSU

This introductory course in robotics emphasizes hands-on experience of building and operating a functional robotic kit, including electric motors, servos, sensors, switches, actuators, and their functions in the operation of a robot. Students also learn to program and operate an industrial robot.

Hours: 18 Lecture. 54 Lab.

## AUTOMOTIVE TECHNOLOGY

### Division of Career and Technical Education

#### AUTO 045

##### Honda/Acura Express Service

Units: 4

**Prerequisite:** AUTO 101 or AUTO 102

This course introduces maintenance, light repair and service operations for late model Honda/ Acura vehicles. Students will engage in MLRS interactive activities, lessons and/or special assignments via distance learning using Honda's Interactive Training and Support Network. Upon completion of each MLRS training module students will be assessed on the subject matter. Successful completion of all MLRS modules will then be accompanied by an Express Service performance evaluation. During Express Service students will have an opportunity to demonstrate their skills in MLRS areas in a mock dealership environment. Successful completion of all MLRS modules and the Express Service evaluation will count toward the students MRLS certification/certificate.

Hours: 72 Lecture.

#### AUTO 045-1

##### Honda/Acura Chassis Electrical Systems

Units: 4

**Prerequisite:** AUTO 101 or AUTO 102



AUTO 0451 is a course in automotive chassis electronics. The content reflects operation of digital circuits, semi-conductor devices and methods for troubleshooting complex problems. Students will engage in a variety of activities using diagnostic equipment, the five step diagnostic method, and research to discover vehicle failures. Students will also be expected to obtain research materials from Honda's interactive active Technical Library to support their diagnosis. The course intention is to build upon the student's prior knowledge of electronics using basic parallel/ series circuit design fundamentals as the foundation. Students will learn how to make circuit performance predictions from schematics; along with test data they will be able to navigate a circuit's operation via diagnostic flow charts. Successful course completion shall include the following: finish designated Honda Interactive Network Training (HINT) modules with proof of module posting on the students Dealer Personal Tracking System (DPTS), correctly diagnose vehicle failures, completion of homework assignments and perform satisfactorily on practical exams. AUTO 0451 is a requirement for the Honda PACT Certificate or AS Degree. Hours: 72 Lecture.

**AUTO 046  
Honda/Acura Automatic  
Transmission Systems**

**Units:** 4

**Prerequisite:** AUTO 101 or AUTO 102

**Corequisite:** AUTO 125

This course provides instruction relating to specific automatic transmission internal operation: drive, driven, and holding components, along with fluid pressures and sensor voltages. Students will engage in activities using special Honda diagnostic equipment to research automatic transmission topics from the Honda Interactive Training Network (HINT). Students will also participate in instructor lead demonstrations and interactive classroom assignments. Course completion shall include finishing all required HINT course training modules and proof of module posting on American Honda's Dealer Personal Tracking System (DPTS). The course is a requirement for the Honda/Acura Professional Career Training Program (PACT Program) Powertrain and Transmission Systems Certificate of Achievement and is in partial fulfillment of the Honda PACT AS degree. Hours: 72 Lecture.

**AUTO 046-1  
Honda/ Acura Occupant Safety  
Systems**

**Units:** 4

**Prerequisite:** AUTO 101 or AUTO 102

**Corequisite:** AUTO 240

This course provides instruction relating to specific supplemental restraint systems: cable reel, Occupant Detection

Systems (ODS), electrical system voltage thresholds, impact sensor inputs, air bag deployment and Supplement Restraint Systems (SRS) safety. Students will engage in activities using special Honda diagnostic equipment to research SRS repair and safety precaution topics from the Honda Interactive Training Network (HINT). Students will also participate in instructor led demonstrations and interactive classroom assignments. Course completion shall include finishing all of the HINT course training modules and proof of module posting on American Honda's Dealer Personal Tracking System (DPTS). The course is a requirement for the Honda/Acura Professional Training Program (PACT Program) Air Conditioning and Supplemental Restraint Systems Certificate of Achievement and is in partial fulfillment of the Honda PACT Program AS degree. Hours: 72 Lecture.

**AUTO 065  
Smog Technician Diagnostic and  
Repair Procedures**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed to provide the student with the ability to satisfy the Bureau of Automotive Repair (BAR) Smog Check Technician training requirement of successfully completing the Specified Diagnostic and Repair Training Course when applying for the California Smog Check Technician licensing examination. Course content includes diagnostic and repair strategies in Electrical and Electronic Systems, Engine Performance, and Advanced Engine Performance. This course is also intended for the student as a test preparation course for the Automotive Service Excellence (ASE) A6, A8, and L1 certification exams. Upon successful completion of this course, the student will receive a certificate of completion from the Rio Hondo Automotive Technology Department. Students, with permission from the Division, may re-enroll only one time for certification or licensure standards. Hours: 45 Lecture. 27 Lab.

**AUTO 101  
Introduction to Automotive Service  
and Repair: Underhood Service**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is an introductory course designed to provide the student with the fundamentals of the engine and its subsystems of the modern automobile. Students will learn basic automotive tool and equipment use and how to safely perform basic repair and maintenance operations. Students will

have the opportunity to perform minor repair work on their own vehicles to complete required tasks. This course is designed to be a companion course to AUTO 103 and AUTO 106, and is one of the three prerequisite courses for AUTO 107. Students are encouraged to complete all three courses in order to obtain a firm foundation in this subject, and it is required for the General Service Technician Certificate Program. Hours: 45 Lecture. 27 Lab.

**AUTO 102  
Introduction to Honda/Acura Service  
and Repair**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Transfers to:** CSU

This is an introductory course designed to provide the student with the fundamentals of operation of the various systems of Honda and Acura vehicles. Students will learn basic automotive tool and equipment use and how to safely perform many basic repair and maintenance operations. Students will learn using Honda and Acura vehicles, and school provided units and automotive component parts. All completed work will be reported on American Honda's Dealer Personal Tracking System (DPTS). This course is part of American Honda's Professional Automotive Career Training (PACT) program. Hours: 45 Lecture. 27 Lab.

**AUTO 103  
Introduction to Automotive Service  
and Repair: Undercar Service**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is an introductory course designed to provide the student with the fundamentals of the transmission, brakes, suspension, heating and air conditioning, engine performance, and emission control systems of the modern automobile. Students will learn basic automotive tool and equipment use and how to safely perform basic repair and maintenance operations. Students will have the opportunity to perform minor repair work on their own vehicles to complete required tasks. This course is designed to be a companion course to AUTO 101 and AUTO 106, and is one of the three prerequisite courses for AUTO 107. Students are encouraged to complete all three courses in order to obtain a firm foundation in this subject, and it is required for the General Service Technician Certificate Program. Hours: 45 Lecture. 27 Lab.

**AUTO 106  
Automotive Electrical Tools and  
Diagnostic Procedures**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is an introductory course designed to provide the student with the fundamentals of the electrical systems of the modern automobile. Emphasis will be placed on electrical fundamentals, symbols and circuit diagrams, batteries, starting, charging, ignition, and lighting systems. Students will learn the proper use of automotive electrical tools and equipment, and how to safely perform basic vehicle electrical repair and maintenance operations. Students will have the opportunity to perform minor repair work on their own vehicles to complete required tasks. This course is designed to be a companion course to AUTO 101 and AUTO 103, and is one of the three prerequisite courses for AUTO 107. Students are encouraged to complete all three courses in order to obtain a firm foundation in this subject, and it is required for the General Service Technician Certificate Program. Hours: 45 Lecture. 27 Lab.

#### **AUTO 107**

**Introduction to Automotive Light Service (C-ID: AUTO 110X)**

**Units:** 3

**Prerequisite:** AUTO 101, AUTO 103 and AUTO 106

**Transfers to:** CSU

This is an introductory course to provide students with working knowledge of light duty service. Students will learn underhood and undercar systems service, battery and basic electrical service, pre-delivery inspection procedures, and preventative maintenance operations. Emphasis will be placed on the safe operation of light-duty service tools and equipment, and general repair procedures of wheels and tires, suspension & steering components, engine and transmission components, engine & vehicle electrical components, and brake system components. This course offers further practice and more experience in the subjects taught in three other introduction courses (AUTO 101, AUTO 103, & AUTO 106). Hours: 45 Lecture. 27 Lab.

#### **AUTO 115**

**Computerized Engine Controls and Diagnostics**

**Units:** 3

**Prerequisite:** AUTO 150

**Transfers to:** CSU

This course is designed to provide students with an introduction to the Automotive Service Excellence (ASE) Advanced Engine Performance Specialist Certification Test (L1) "Composite Vehicle" by the use of simulator boards and computer-based training methods. This is an introductory study of computerized engine controls and diagnosis as it pertains to the function and control of

the engine, fuel, ignition, and emission control systems. Emphasis will be placed upon system components and their operational characteristics. Basic troubleshooting techniques of the engine, fuel, ignition, and emission control systems will be demonstrated. Hours: 54 Lecture.

#### **AUTO 125**

**Power Train System Service and Transmission Diagnostics**

**Units:** 4

**Prerequisite:** AUTO 102 or AUTO 103

**Transfers to:** CSU

This course in power train service and light repair addresses topics in Manual Transmissions, Automatic Transmissions/ Transaxles, Differentials, Clutches and Drive shafts. Emphasis will be placed on correct procedures for sustaining transmission service life, identifying service intervals for prolonging component life, procedures for proper transmission removal and reinstallation and inspection of components. Students will be informed to specific power train related faults, how problems are diagnosed, and protocol for updating transmission shift logic using updated computer software. Topics will be facilitated through class room discussions, live demonstration as well as student laboratory exercises. Students will use scan tools, flushing equipment, computers and a variety of specialty tools to assist them during their classroom and laboratory experiences. Hours: 54 Lecture. 54 Lab.

#### **AUTO 130**

**Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals**

**Units:** 3

**Advisory:** AUTO 065

**Transfers to:** CSU

This course is designed to provide the student with the ability to satisfy the Bureau of Automotive Repair (BAR) Smog Check Technician training requirement to successfully complete the Level-I Smog Technician Training Course when applying for the California Smog Check Technician licensing examination. Course content includes engine theory, design and operation, ignition systems, fuel systems, engine management systems, and emission control systems. Emphasis is placed on proper engine diagnostic procedures and on-board diagnostic systems (OBD-I and OBD-II). Lab activities focus on the use of testing equipment, scan tools, and digital scopes and meters, as well as inspection and repair procedures of vehicles that fail the smog test. Upon successful completion of this course, the student will receive a certificate of completion from the Rio Hondo Automotive Technology Department. Students with permission from the division may re-enroll only one time for certification or licensure standards. Hours: 45 Lecture. 27 Lab.

Hours: 45 Lecture. 27 Lab.

#### **AUTO 131**

**Automotive EV Electronics I**

**Units:** 3

**Prerequisite:** AUTO 106, AUTO 157

**Transfers to:** CSU

This is the first of two introductory courses designed to expand student skills related to the fundamentals of the electrical systems of the modern hybrid/electric automobile. The course covers the general electrician skills needed to understand and diagnose modern electric vehicles. Emphasis is placed on electrical fundamentals, symbols and circuit diagrams, high-voltage batteries, charging systems, heat pumps for cooling and heating, and LED lighting systems. Students learn the proper use of high voltage electrical diagnostic tools and equipment and how to safely perform vehicle electrical service and maintenance operations. Students also have the opportunity to perform minor repair work on hybrid and high voltage vehicles to complete required tasks. The course is designed to be a companion course to AUTO 132 and a prerequisite course for AUTO 147. Students are encouraged to complete both AUTO 131 and AUTO 132 in order to obtain a firm foundation in this subject. Hours: 45 Lecture. 27 Lab.

#### **AUTO 132**

**Automotive EV Electronics II**

**Units:** 3

**Prerequisite:** AUTO 131

**Transfers to:** CSU

This is the second of two introductory courses designed to expand student skills related to the fundamentals of the electrical systems of the modern hybrid/electric automobile. The course covers the general electrician skills needed to understand and diagnose modern electric vehicles. Emphasis is placed on electrical fundamentals, symbols and circuit diagrams, high-voltage energy storage and range calculations, charging systems/on and off vehicle, heat pump for cooling and heating, motor and generators, magnetism, induction, and LED lighting systems. Students learn the proper use of high voltage electrical diagnostic tools and equipment, automated driver alert systems, camera, and radar communication with vehicle safety systems, and how to safely perform vehicle electrical service and maintenance operations. Students also have the opportunity to perform minor repair work on hybrid and high voltage vehicles to complete required tasks. This course is designed to be a companion course to AUTO 131, a prerequisite course for AUTO 147 and AUTO 148. Students are encouraged to complete both AUTO 131 and AUTO 132 to obtain a firm foundation on the subject of electronics and electric vehicles. Hours: 45 Lecture. 27 Lab.

#### **AUTO 135**

**Level-II Smog Technician Training Course: Smog Check Inspection Procedures**

**Units:** 3

**Advisory:** AUTO 130

**Transfers to:** CSU

This course is designed to provide the student with the ability to satisfy the Bureau of Automotive Repair (BAR) Smog Check Technician training requirement to successfully complete the Level-II Smog Technician Training Course when applying for the California Smog Check Technician licensing examination. Course content includes customer awareness, program administration, equipment maintenance, inspection and testing procedures, and pass/fail reports. Emphasis is placed on the practical application of the loaded and non-loaded modes of emissions testing. Lab activities focus on vehicle identification, visual and functional inspections and calibration of testing equipment, as well as performing complete smog check inspections of vehicles. Upon successful completion of this course, the student will receive a certificate of completion from the Rio Hondo Automotive Technology Department. Students with permission from the division may re-enroll only one time for certification or licensure standards.

Hours: 45 Lecture. 27 Lab.

**AUTO 140**

**Body & Chassis Electrical Systems**

**Units:** 4

**Prerequisite:** AUTO 102 or AUTO 106

**Advisory:** AUTO 157

**Transfers to:** CSU

This course provides an overview of the modern automobile's electrical system as related to the body and chassis of the vehicle. The theory of operation, operational characteristics and methods of problem diagnostics and repair for the following systems are included: lighting, instruments, windshield wipers, power windows/seats/mirrors, audio systems, convertible tops, safety restraints, (SRS) Supplemental Restraint Systems, and anti-theft systems. This course prepares the student for the (ASE) Automotive Service Excellence A-6 exam and is intended for Automotive majors. Students with permission from the Division may re-enroll only one time for certification or licensure standards.

Hours: 54 Lecture. 54 Lab.

**AUTO 144**

**Alternative Fuels Technician**

**Units:** 3

**It is advised that students be able to engage in college composition written at a college and read college-level texts.**

**Transfers to:** CSU

This course covers gaseous alternative fuels as they pertain to modern vehicles. Various alternative fuels (e.g., compressed natural gas (CNG), liquefied natural gas (LNG), liquefied petroleum gas (LPG), hydrogen, and

biofuels) are examined and compared; and the operation, system components, and safe handling of these fuels is discussed. Students will develop skills in the areas of vehicle preparation, system component identification, and repair procedures related to alternative fuel vehicles. The course is designed for students and technicians working on stationary power engines, transportation, and clean fuels who seek to improve skills related to the maintenance and repair of gaseous fuels; and will provide students with information related to Automotive Service Excellence (ASE) F1 or H1 test preparation.

Hours: 45 Lecture. 27 Lab.

**AUTO 147**

**Introduction to Hybrid and Electric Vehicle Technology (C-ID: ALTF 100X)**

**Units:** 3

**Prerequisite:** AUTO 157

**Transfers to:** CSU

This course explores the use of hybrid and electric power for vehicle transportation. Topics will include safety when using high voltage, maintenance, drivability, inverter power transfer, battery technologies, hydrogen electric power, and fuel cell technology. The physics of battery storage, hybrid generation systems, and electric vehicle applications and their integrated systems from various manufacturers will be discussed. This course is suitable for students entering into the alternative fuels or power generation and energy technology fields.

Hours: 45 Lecture. 27 Lab.

**AUTO 148**

**Vehicle Safety, Comfort and Convenience Systems**

**Units:** 3

**Prerequisite:** AUTO 106

**Transfers to:** CSU

This course introduces students to the fundamentals of automotive safety, comfort, and convenience systems related to the advanced drivers assistance systems (ADAS) in modern automobiles. Students learn how to use specific tools and equipment, and how to perform basic repair and maintenance operations safely. Emphasis is placed on the lane change assist, crash avoidance, adapted cruise control, camera and ultra-sonic sensors, keyless entry, supplemental restraint system (SRS) airbag, anti-lock braking (ABS) and traction control, air-conditioning and heating, lighting, and theft deterrence systems. Service information systems, electrical circuits, symbols and circuit diagrams, and other, related topics are also discussed. This course requires students to have a solid background regarding the technical knowledge of basic automotive electrical and electronic systems.

Hours: 45 Lecture. 27 Lab.

**AUTO 150**

**Engine Electrical Systems**

**Units:** 4

**Prerequisite:** AUTO 106

**Advisory:** AUTO 102

**Transfers to:** CSU

This course provides an overview of the modern automobile's electrical system as related to the engine and engine-related systems. The theory of operation, operational characteristics, methods of problem diagnosis, and repair of the following systems are included: electronic ignition, electronic fuel injection, engine management, emission control, charging, cooling and starting. This course prepares the student for the Automotive Service Excellence (ASE) A8 Engine Performance test and is intended for automotive majors. Students with permission from the division may re-enroll only one time for certification and licensure standards.

Hours: 54 Lecture. 54 Lab.

**AUTO 157**

**Automotive Specialized Electronics Training**

**Units:** 4

**Prerequisite:** AUTO 106

**Transfers to:** CSU

This course provides an overview of the principles of automotive electronics. Topics covered include electrical theory, fundamentals of circuit construction, computers, semiconductors, microprocessors, integrated circuits (IC), types of output signals, wire repair techniques, meter usage and strategy based diagnostics. A demonstration General Motors circuit board will be used to illustrate circuit board function. This course is designed for entry level technicians or students who need an understanding of the basics of automotive electronics.

Hours: 72 Lecture.

**AUTO 158**

**Automotive High Voltage Safety**

**Units:** 2

**Prerequisite:** AUTO 157

**Transfers to:** CSU

This course continues the study of the use and service of hybrid electronic generation, plug-in battery-electric power, and fuel cell power generation for vehicles. Topics will include OSHA/NEC/NFPA high voltage safety specifically for the service technician. Dynamics of high voltage battery energy, hybrid generation systems, electric vehicle applications and their integrated systems from many manufacturers will be discussed. Battery storage systems for home charging usage as they apply to the home charging of a plug-in vehicle will also be addressed. High-voltage battery management systems including active/passive designs that control charging system safe operation, diagnosing with proper test tools and equipment, will be the primary focus of this course. This course is for students working in the hybrid/electric vehicle energy, fuel cell power engineering and technology fields.

Hours: 27 Lecture. 27 Lab.

**AUTO 160**  
**Upper End Engine Rebuilding and Machining**

**Units:** 4

**Prerequisite:** AUTO 101 or AUTO 102

**Transfers to:** CSU

This course provides occupational preparation in the skills required in the adjustment and repair of the modern automobile engine upper end and valve train assembly. Emphasis is placed on problem diagnosis, repair techniques, service procedures, and machining operations. This course prepares the student for the (ASE) Automotive Service Excellence A-1 exam and is intended for automotive majors. Students with permission from the Division may re-enroll only one time for certification or licensure standards. Hours: 54 Lecture. 54 Lab.

**AUTO 170**  
**Lower End Engine Rebuilding and Machining**

**Units:** 4

**Prerequisite:** AUTO 101

**Advisory:** AUTO 160

**Transfers to:** CSU

This course provides occupational preparation in the skills required for adjustment and repair of modern automobile engine lower end assembly. Emphasis is placed on problem diagnosis, repair techniques, service procedures, and machining operations. This course prepares students for the Automotive Service Excellence (ASE) A-1 exam and is intended for automotive majors. Hours: 54 Lecture. 54 Lab.

**AUTO 190**  
**Engine Blueprinting & Machining**

**Units:** 3

**Advisory:** AUTO 160 or AUTO 170

**Transfers to:** CSU

This is an advanced course for students interested in engine blueprinting and engine machining practices. Topics include: cylinder block machining and preparation, cylinder head machining and repair, crankshaft materials and construction, connecting rod applications and machining, piston design and applications as well as camshaft lobe applications and profile analysis. Students must be proficient with basic precision instruments or have prior experience with engine machining or assembly practices. Emphasis will be placed upon engine blueprinting methods machining operations and component applications. Hours: 45 Lecture. 27 Lab.

**AUTO 200**  
**Suspension, Steering, and Alignment Service (C-ID: AUTO 140X)**

**Units:** 4

**Prerequisite:** AUTO 103

**Transfers to:** CSU

This course discusses the principles of suspension, steering and wheel alignment for modern imported and domestic automobiles and light trucks.

Emphasis is placed on developing skills required in the diagnosis, and/or repair and adjustment to steering systems and wheel alignment angles. Complete suspension and steering system overhaul will be covered in the laboratory. Computerized wheel alignment and computerized wheel balancing equipment will be used / demonstrated. This course is designed for students wanting to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in suspension, steering and alignment. Students with permission from the Division may re-enroll only one time for certification or licensure standards. Hours: 54 Lecture. 54 Lab.

**AUTO 201**  
**Automotive Brake and Suspension Service**

**Units:** 4

**Prerequisite:** AUTO 102 or AUTO 103

**Transfers to:** CSU

This course discusses brakes and suspension theory of operation, service and repair procedures, related tool and equipment use and strategy based problem diagnosis. These procedures for imported and domestic automobiles and light trucks are developed through classroom discussions, demonstrations and laboratory experiences. This course is designed for students wanting to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in brake and suspension service. Hours: 54 Lecture. 54 Lab.

**AUTO 210**  
**Automotive Brake Systems (C-ID: AUTO 150X)**

**Units:** 4

**Prerequisite:** AUTO 103

**Transfers to:** CSU

This course examines the theory of the operation, service and repair procedures, related tool and equipment use, and strategy-based problem diagnosis of modern disc and drum brakes. The procedures for imported and domestic automobiles and light trucks are developed through classroom discussions, demonstrations, and laboratory experiences. The course is designed for students who want to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in brake service. Students with permission from the Division of Career and Technical Education (CTE) may re-enroll only one time for certification or licensure standards. Hours: 54 Lecture. 54 Lab.

**AUTO 211**  
**Anti-lock Brakes/Traction Control Systems**

**Units:** 3

**Prerequisite:** AUTO 103

**Advisory:** AUTO 210

**Transfers to:** CSU

This course is designed for students wanting to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in modern Anti-lock and/or Traction Control systems. This course will provide instruction in automotive anti-lock brake systems, traction control systems and vehicle stabling assist (VSA), including diagnosis, operation and maintenance of ABS/ TCS/VSA. The course will include the use of scanners, DVOM meters and lab-scopes in diagnosis of various ABS/TCS/VSA systems; both 2 wheel and 4 wheel systems will be covered. Hours: 54 Lecture.

**AUTO 220**  
**Manual Drive Trains and Axles**

**Units:** 4

**Prerequisite:** AUTO 103

**Advisory:** AUTO 125

**Transfers to:** CSU

This course discusses modern manual transmissions, transaxles, drivelines, differentials, and 4WD/AWD systems theory of operation, methods of repair, service, equipment operation and techniques of problem diagnosis. Procedures for import and domestic vehicles are developed through classroom discussion, demonstrations and laboratory experiences. This course prepares the student for the (ASE) Automotive Service Excellence A-3 Exam and is intended for automotive majors. Students with permission from the Division may re-enroll only one time for certification or licensure standards. Hours: 54 Lecture. 54 Lab.

**AUTO 230**  
**Automatic Transmission/Transaxle (C-ID: AUTO 120X)**

**Units:** 4

**Prerequisite:** AUTO 103

**Advisory:** AUTO 065

**Transfers to:** CSU

This course is designed to provide instruction in Automatic Transmission/ Transaxle systems. Included will be the application of friction materials, planetary gear components, hydraulic components; both hydraulically controlled and electronically controlled, fluid types and sealing materials. The student will achieve skill in diagnosis, removal, disassembly, reassembly and rebuilding transmission units to manufacturer's specifications and learn part nomenclature and function. Students with permission from the Division may re-enroll only one time for certification and licensure standards. Hours: 54 Lecture. 54 Lab.

**AUTO 240**  
**Heating and Air Conditioning (C-ID: AUTO 170X)**

**Units:** 4

**Prerequisite:** AUTO 102 or AUTO 103

**Transfers to:** CSU

This course is designed to provide instruction on the operating principles of common automotive heating and air



conditioning systems. Topics include new service equipment, contamination issues, servicing and diagnosing manual and automatic systems, and retrofitting R-12 systems to R-134a, as well as the rules of AQMD/EPA. Students will be given the opportunity to earn their certification license (EPA Rule 1411). Students with permission from the Division may re-enroll in this course only one time for certification or licensure standards.  
Hours: 54 Lecture. 54 Lab.

#### **AUTO 260**

##### **Advanced Hybrid/Electric Vehicle Units: 4**

**Prerequisite:** AUTO 147

**Advisory:** AUTO 157

**Transfers to:** CSU

This course continues the study of the use and service of hybrid electronic generation and plug-in battery electric power for vehicle transportation. The course is not for beginner technicians. Topics will include Occupational Safety and Health Administration/National Electrical Code/National Fire Protection Association (OSHA/NEC/NFPA) safety when using high voltage; vehicle maintenance; drivability conditions; inverter power transfer; battery storage technologies; regeneration of electrical power from kinetic energy; and Level 1, Level 2, Level 3 battery charging and fuel cell technology. Dynamics of battery storage, hybrid generation systems, electric vehicle applications, and their integrated systems from many manufacturers are discussed. High-voltage battery management systems including active/passive design to charging systems will be the primary focus of the course. This course is for students working in the hybrid and electric vehicle or power engineering and technology fields.  
Hours: 54 Lecture. 54 Lab.

#### **AUTO 266**

##### **Fuel Cell Technology Fundamentals Units: 3**

**Prerequisite:** AUTO 260

**Advisory:** AUTO 147 Students are highly recommended to have completed the AUTO 147 course to understand the basic electronic powertrain theory.

**Transfers to:** CSU

This course addresses the fundamentals of the different types of fuel cells and their application for the generation of mobile, vehicular, and stationary power. Topics will include: safety standards (OSHA/NEC/NFPA) when developing, servicing, and working in a high voltage/power inverter transfer; battery storage technologies, and regeneration of electrical power from kinetic energy. A descriptive overview of key fuel cell technologies, including proton exchange membrane (PEM), direct methanol fuel cell, alkaline, and solid oxide fuel cell, will be provided together with potential applications for transportation, stationary, and portable power. Hydrogen production/storage

and high voltage safety will also be covered.

Hours: 45 Lecture. 27 Lab.

#### **AUTO 290**

##### **Cooperative Work Experience/ Internship for Automotive Technology Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition and read college-level texts**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under the supervision of a college instructor, and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in their area of vocational interest, and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the automotive/transportation field and have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 60-300 Lab.

#### **AUTO 299**

##### **Directed Study in Automotive Technology**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with

an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 6-18 Lecture. 48-144 Lab.

#### **AUTO 300**

##### **Assessment of the Automotive Industry**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** PHY 120, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H

This course provides the automotive technology student with a detailed practical study of how to be successful in the automotive service, parts, and sales industry. It provides a practical study of current service, parts, and sales practices performed in dealerships and independent repair shops, while also discussing the review and preparation of the theory and skills necessary to successfully pass the National Institute for Automotive Service Excellence (ASE) exams relevant to industry standards. Topics include becoming efficient in the shop, mastering various pay systems, understanding managers and owners, building customer loyalty, demonstrating workplace and social ethics, and making Customer Satisfaction Index (CSI) values work for all employees. In addition, vehicle engines, transmissions, brakes, suspension, and air-conditioning; and engine performance systems, parts, and components, and new and emerging technologies that support the service and repair of the modern automobile will be discussed. Emphasis will be placed upon the important tasks of proper repair procedures; the safe use of tools, equipment, technical data, and scan tools; and the ins-and-outs of the business of service, parts, and sales. Current automotive industry practices and relevant case studies will be discussed and demonstrated throughout the course. The goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

#### **AUTO 310**

##### **The Global Development and Advancement of the Automobile Units: 3**

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** PHY 120, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H

This course provides automotive technology students with a detailed, practical study of the development of the automobile from its beginnings to

the present day. The course is a practical study of the invention of the first suitable power source to be adopted to self-propel a road vehicle and how it resulted in a major paradigm shift that revolutionized transportation and mobility. Topics include the development of animal-drawn transportation devices and the quest for a prime mover, the pioneering era of the automobile and how it led to being an industrial product, mass production of the automobile and how it became a consumer product, and new and emerging technologies that support the automobile and motorized traffic and transportation systems. Emphasis is placed upon the global perspective—particularly the developments that occurred in the United States, Europe, and Asia—and the numerous technological and business revolutions of the first and second half of the 20th century. Current automotive industry practices and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

**AUTO 320**  
**The Progressive Growth of Automotive Technology**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** PHY 120, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H

This course provides automotive technology students with a detailed, practical study of the development of automotive technology from its beginnings to the present day, focusing on the basics and its long-term development. The course is a practical and contextualized study of the importance of the technological automotive changes that have evolved as a result of engineering improvements and cultural changes. Topics include the development of vehicle layout and design; the needs and behaviors of drivers, producers, non-users, and other stakeholders; and the ever-changing, computerized control of its systems and other emerging technologies. Emphasis will be placed upon the systematic overview of the mechanization and electrification of the automobile, not only as machines, but as a testimony to their important role in the way we live today. Current automotive industry practices and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their

employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

**AUTO 330**  
**Hybrid/Electric Vehicles**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course explores the use of hybrid and electric power for vehicle transportation. Hybrid electric vehicles (HEV) are studied and examined, with particular attention paid to power flows, losses, and energy usage as these things relate to isolated powertrain components and HEV configurations. Topics include powertrain architecture, vehicle testing, fuel consumption, aerodynamics and rolling resistance, engines, batteries, electric machines, power electronics, idle reduction, and regenerative braking. Concepts that are explored include power flows, losses, energy usage, and drive quality over drive cycles to determine vehicle performance measures; HEV analysis to examine the operation, integration, and design of powertrain components; vehicle applications and integrated systems from various manufacturers, with emphasis placed on the design of the system parts; and the operation characteristics of components and subsystems. Current, industry-approved diagnostic and troubleshooting techniques and relevant case studies are discussed and demonstrated throughout the course.  
Hours: 54 Lecture.

**AUTO 340**  
**Analyzing Vehicle Electrical/Electronic Systems**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** PHY 120, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H

This course provides automotive technology students with a detailed, practical application of electrical and electronic systems of the modern automobile. The course is a practical study of computerized vehicle controls and diagnostic strategies as they pertain to the function, operation, and vehicle on-board diagnostic and communication systems of the engine, powertrain, brakes, suspension, safety, convenience, and emission control systems. Topics include emerging technologies (such as modern instrumentation, navigation, and telematics) and the use of vehicle network configuration systems used by late-model automotive manufacturers. Emphasis is placed on the design of system parts, components, and subsystems; and their operational characteristics, including programmed microprocessors, microcontrollers, and

computer-language protocol. Current industry-approved diagnostic, troubleshooting, and reprogramming techniques and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

**AUTO 350**  
**The Future of Automotive Sales and Service**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides students with a detailed, practical study of current and future automotive sales and service in a retail setting, and is a practical and contextualized study of the importance of automotive industry business practices that have evolved from dealer salesmen to Internet car sales. Topics include the history of sales and finance, client expectations, and future strategies. Current automotive industry practices and recent case studies are discussed and demonstrated throughout the course. Students apply and demonstrate skills and knowledge in retail sales and service that will enable them to advance their careers in the automotive industry.  
Hours: 54 Lecture.

**AUTO 360**  
**Analyzing Vehicle Fuels, Lubricants, and Combustion**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** PHY 120, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H

This course provides automotive technology students with a detailed, practical application of the fuels, lubricants, and combustion systems of the modern automobile. The course is a realistic study of the physical and chemical properties of fuels, lubricants, and combustion, including diagnostic strategies as they pertain to the function, operation, and everyday use of the systems and subsystems of the automotive internal combustion engine and related powertrain components. Topics include emerging technologies, such as modern fuel and lubricant requirements and how they affect combustion, emissions, and maintenance schedules used by late-model automotive manufacturers. Emphasis is placed on the design of system parts, components, subsystems, and their operational characteristics, including failure analysis. Current industry-approved diagnostic and troubleshooting techniques and

relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

**AUTO 370**  
**Standard Accounting Systems of the Automotive Industry**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ACCT 101 or ACCT 101H, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides automotive technology students with a detailed, practical application of accounting fundamentals and business management principles, and the adaptation of these things to factory-to-store and day-to-day operations. The course is a practical study of the theory, principles, and practice of preparing and interpreting accounting statements and business management reports. Topics include an overview of computerized accounting information systems and practices in business management techniques, such as the importance of strong financial and management control, financial statements and statement analysis. Emphasis is placed upon the concepts of using accounting fundamental principles, cash and contracts, short-term and long-term liabilities and assets, and stockholders' equity of reporting documents, which are essential to a successful automotive business operation. Current automotive industry practices and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle sales and service fixed operations management spectrum.  
Hours: 54 Lecture.

**AUTO 375**  
**The Future of Mobility**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides students with a detailed, practical study of current and future means of mobility, and is a practical and contextualized study of the importance of automotive industry business practices that have evolved from ownership to vehicle membership services. Topics include consumer perception, lifestyles, types of ownership, alternatives to ownership, future ownership

experiences, and ownership expectations and future strategies. Current automotive industry practices and recent case studies are discussed and demonstrated throughout the course. Students apply and demonstrate skills and knowledge in current vehicle ownership and future trends that will enable them to advance their careers in the automotive industry.  
Hours: 54 Lecture.

**AUTO 390**  
**Cooperative Work Experience/ Internship for Automotive Technology Bachelor of Science Degree**

**Units:** 1-3

**Enrollment requires special approval from the Automotive Technology Department.**

**Prerequisite:** ENGL 201 or ENGL 201H

**Advisory:** ENGL 325

This course supports and reinforces on-the-job training in business and industrial establishments under the supervision of an Automotive Technology Bachelor of Science Degree college instructor and is facilitated by the use of learning outcomes. The student will be working in a skilled or professional level assignment in their area of vocational interest as it relates to the Automotive Technology Bachelor's Degree. Emphasis will be placed on the student's ability to meet performance objectives related to instruction that are equal to or greater than their current job duties and conditions of regular employment. This course is intended for students who are currently enrolled in the BS Degree Program, and whose job is related to the automotive/transportation field.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours

Hours: 3 Lecture. 60-225 Lab.

**AUTO 400**  
**Analyzing Vehicle Stability, Dynamics, and NVH**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides automotive technology students with a detailed, practical application of stability, dynamics, and noise-vibration-harshness (NVH) of the modern automobile. The course is a practical study of the systems that provide vehicle operation safety, including diagnostic strategies as they pertain to the function, operation, and everyday use of automotive tires, brakes, steering, and suspension systems. Topics include emerging technologies such as modern antilock brakes,

traction control, electronic stability assist, electronic power steering, active suspension, and tire construction and pressure monitoring systems used by late-model automotive manufacturers. Emphasis is placed on the design of system parts, components, subsystems, and their operational characteristics, and their operational characteristics, including techniques in reducing NVH. Current industry-approved diagnostic and troubleshooting techniques and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

**AUTO 410**  
**Digital Marketing for the Automotive Industry**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, MKT 170, PHY 120

This course provides automotive technology students with a detailed, practical application of various internet and social media marketing strategies, including category-based guidelines impacting the operations of the automotive wholesale and retail business. The course is a practical study of the policies and practices of digital marketing, and the necessary tools, templates, and checklists needed to develop a strategic and successful marketing campaign. Topics include in-sourcing and out-sourcing, responsive and adaptive website technologies, developing content, and policies and processes. Emphasis is placed on the use of online and traditional media to increase customer satisfaction, including the preparation of business management and marketing reports. Current automotive industry practices and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle sales and service fixed operations management spectrum.  
Hours: 54 Lecture.

**AUTO 420**  
**Analyzing Dynamic Functions of Vehicle Drivetrain Systems**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides automotive technology students with a detailed, practical application of



electromechanical and hydraulic functions of transmission and drivetrain systems of the modern automobile. The course is a practical study of the systems that provide vehicle mobility, including diagnostic strategies as they pertain to the function, operation, and everyday use of automotive transmission, differential, and drive axle systems. Topics include emerging technologies such as modern dual-clutch transmissions, continuously-variable transmissions, real-time gear shifting mechanisms and controls, torque convertor and convertor clutch designs, torque-management strategies, and innovative designs of gears, bearings, seals, and friction materials used by late-model automotive manufacturers. Emphasis is placed on the design of system parts, components, and subsystems, and their operational characteristics, including techniques in reducing noise-vibration-harshness (NVH). Current industry-approved diagnostic and troubleshooting techniques and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

#### **AUTO 430**

##### **Finance and Insurance Regulations for the Automotive Industry**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** PHY 120, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H

This course provides automotive technology students with a detailed, practical application of the numerous federal, state, and local agencies and their laws and regulations pertaining to the operation of an automotive wholesale and retail business. This course is a practical study of a broad scope of regulatory agencies and regulations such as the Department of Motor Vehicles (DMV), Internal Revenue Service (IRS), Franchise Tax Board (FTB), Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA), air quality managements districts (AQMDs), National Highway Transportation Safety Administration (NHTSA), Federal Trade Commission (FTC), fair labor standards, truth in advertising, truth in lending, the Consumer Leasing Act, Equal Credit Opportunity Act, Fair Credit Reporting Act, and other related agencies and regulations. Topics include an in-depth study of automotive business finance, insurance, and new and certified used vehicle departments within an organization. Emphasis is placed on the services offered in these departments and their potential for generating

profits and improving customer satisfaction. Current automotive industry practices and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle sales and service fixed operations management spectrum.  
Hours: 54 Lecture.

#### **AUTO 435**

##### **Automotive Manufacturers**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides students with a detailed, practical study of numerous federal, state, and local agency laws and regulations that pertain to the operation of an automotive wholesale and retail business, including the function of an original equipment manufacturer (OEM). Topics include automotive products, franchise agreements, partnerships, and sustainability. Current automotive industry practices and relevant case studies are discussed and demonstrated throughout the course. Students apply and demonstrate knowledge and skills that will enable them to advance their employment in the automotive manufacturing landscape.  
Hours: 54 Lecture.

#### **AUTO 440**

##### **Analyzing Vehicle Safety, Comfort, and Security Systems**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides automotive technology students with a detailed, practical application of vehicle occupant protection, comfort, and security systems of the modern automobile. The course is a practical study of the systems that provide integrated vehicle and driving protection against hazardous and inadvertent situations, as well as occupant amenities, including diagnostic strategies as they pertain to the function, operation, and everyday use of active/passive safety, comfort, and convenience systems. Topics include emerging technologies such as modern airbag systems, accident avoidance and pre-crash/post-crash mitigation of injuries, vehicle-to-vehicle (V2V) infrastructure technology, and innovative driver assistance, infotainment, and occupant contentment and security systems used by late-model automotive manufacturers. Emphasis is placed on

the design of system parts, components, and subsystems, and their operational characteristics, including techniques in reducing vehicle crashes and improving occupant/pedestrian protection. Current industry-approved diagnostic and troubleshooting techniques and relevant case studies are discussed and demonstrated throughout the course. The overall goal of this course is to have students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle after-sales field operations management spectrum.  
Hours: 54 Lecture.

#### **AUTO 450**

##### **Variable and Fixed Operations of the Automotive Industry**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides students with a detailed, practical study of variable and fixed operations of new and used vehicle sales, as well as the operations of service and parts, at successful automotive retail centers. Topics include new and used vehicle sales operations, finance, service, parts, and financial return. Emphasis is placed on maximizing and balancing inventory turnaround, wholesale practices, trade-in appraising, vehicle reconditioning, the role that auctions play, the important relationship between the parts and service departments, technician productivity and efficiency, wholesale and retail parts sales, stock and non-stock parts inventory and ordering practices, and part phase-in/phase-out criteria. Current automotive industry practices and relevant case studies are discussed and demonstrated throughout the course. Students apply and demonstrate knowledge and skills that will enable them to advance their employment in the vehicle sales and service fixed operations management spectrum.  
Hours: 54 Lecture.

#### **AUTO 480**

##### **Special Topics in Transportation**

**Units:** 3

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120

This course provides an opportunity for students to keep well informed about the ever-changing trends, technology, and business management practices related to the transportation industry. Students may be expected to attend presentations by industry representatives and/or to conduct research about new trends, technology, and/or business management practices, and then present their findings in class. The course may be repeated for a

maximum of 6 units since the subject matter changes each offering.  
Hours: 54 Lecture.

#### **AUTO 499**

##### **Directed Study in Automotive Technology**

**Units:** 1-4

**Enrollment requires special approval from the Automotive Technology Department.**

**Advisory:** ENGL 325

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take upper division directed study courses for a maximum of 4 units within a discipline.  
Hours: 54-216 Lab.

## **BIOLOGY**

### **Division of Mathematics, Sciences, and Engineering**

#### **BIOL 101**

##### **General Biology**

**Units:** 4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU - UC credit limitation. No credit will be given for BIOL 101 if taken after BIOL 200. General Biology 101 is a general education course, open to all students, and is designed to provide an introduction to concepts and principles of modern biology. Topics covered will include cell structure and function, energy relationships, genetic control mechanisms, concepts of evolution, biological diversity, and ecosystem function. The laboratory component of the course emphasizes the application

of the scientific method as a tool to understanding living systems.  
Hours: 54 Lecture. 54 Lab.

#### **BIOL 105**

##### **Human Biology**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This lecture-only course is an introduction to the basic principles, structures, functions, and biological processes of the human body. The course emphasizes a scientific view of the workings of the human body and its interactions with the environment as well as the necessary practices needed to promote a healthy body. The course is intended for non-biology majors who are interested in furthering their own knowledge of human biology.  
Hours: 54 Lecture.

#### **BIOL 105L**

##### **Human Biology Laboratory**

**Units:** 1

**Advisory:** ENGL 035 or

**Prerequisite/Corequisite:** BIOL 105

**Transfers to:** UC/CSU

This laboratory course pairs with the BIOL 105 lecture course, and is intended for non-biology majors. The course provides students with hands-on laboratory experiences to demonstrate and enhance concepts and principles essential to an understanding of the functions of the human body.  
Hours: 54 Lab.

#### **BIOL 111**

##### **Marine Biology**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This course is designed to give the student a better understanding of the basic principles of Marine Biology and fulfills the general education lecture requirement for the life sciences. Emphasis is placed on how the scientific method is used to investigate the chemical, physical, and geological properties of the marine environment. Students will learn to distinguish among the diverse organisms and habitats that comprise the ocean's ecosystems. An introduction to the structure and function of marine ecosystems is provided and the impact of human activity on those systems will be addressed.  
Hours: 54 Lecture.

#### **BIOL 111L**

##### **Marine Biology Laboratory**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary**

**algebra concepts.**

**Prerequisite/Corequisite:** BIOL 111

**Transfers to:** UC/CSU

This laboratory course complements the Marine Biology lecture course and is designed for the student interested in furthering their understanding of the marine environment and its organisms, with emphasis on marine life of the local coasts. The scientific method will be employed to investigate the chemical and physical properties of seawater, the role of pigments in marine algae, the behavior of marine organisms, the basic classification and morphology of marine producers, invertebrates and vertebrates, and adaptations of organisms to specific habitats. Students will use basic laboratory equipment and techniques in both classroom and field-based investigations. Field trips to coastal marine habitats and public aquaria are conducted.  
Hours: 54 Lab.

#### **BIOL 112**

##### **Outdoor Biology**

**Units:** 4

**It is advised that students be able to write short essays, comprehend textbook reading at the precollegiate level, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This course is intended for the student who has an interest in the natural world and the ecological relationships of the organisms found within it. The course emphasizes the natural habitats of Southern California and the plants and animals associated with them. Also discussed is the impact human beings have had upon these natural habitats. Field work utilizes the Rio Hondo College Wildlife Sanctuary which allows students to gather original data through firsthand observation and experience. Several additional more distant trips requiring driving explore some of the variety of natural habitats in Southern California.  
Hours: 54 Lecture. 54 Lab.

#### **BIOL 120**

##### **Environmental Biology (C-ID: ENVS 100)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

In this course, students utilize basic biological concepts and an interdisciplinary approach to determine how to address environmental challenges. Topics may include ecosystem characteristics and functions, population dynamics, energy and material resource use, pollution, and alternative energy sources. Because the course takes up the social, political, and economic implications of environmental decisions, it is intended for students from many disciplines,

including non-STEM disciplines. This course fulfills the general education requirement for life sciences majors. Hours: 54 Lecture.

#### **BIOL 120L**

##### **Environmental Biology Laboratory** **Units: 1**

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary algebra concepts.**

**Prerequisite/Corequisite:** BIOL 120

**Transfers to:** UC/CSU

This laboratory course complements the Environmental Biology lecture course and is designed for students interested in furthering their understanding of the environmental sciences. The scientific method is employed to investigate ecosystems and their functions, natural selection, population interactions, environmental toxicology, radiation exposure effects, soil and groundwater systems, water pollution, alternative energy systems, and environmental resistance. This is a required course for Environmental Science majors.

Hours: 54 Lab.

#### **BIOL 125**

##### **Human Anatomy (C-ID: BIOL110B)**

**Units: 4**

**Advisory:** BIOL 101 or BIOL 105

**Transfers to:** UC/CSU

This course is primarily a systems approach to mastering the anatomical structures of the human body. The study of each body system includes structural specializations and functions at a microscopic and macroscopic level, emphasizing the interdependence of form and function. Additional topics include methods of anatomical study, human genetics, and embryonic development. This course is intended for pre-health students specifically preparing to enter careers in the health sciences.

Hours: 54 Lecture. 54 Lab.

#### **BIOL 200**

##### **Principles of Biology 1 (Molecular and Cellular Biology) (C-ID: BIOL 135S, BIOL 190)**

**Units: 5**

**Prerequisite:** CHEM 120

**Transfers to:** UC/CSU

This course is first in a sequence of courses for undergraduate preparation for biology majors. The course covers principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, molecular genetics, classical/Mendelian genetics, cell metabolism including photosynthesis and respiration, and cellular communication. Additional areas of focus include evolution and ecology. The laboratory portion of the course applies the processes of scientific inquiry and experimental design to the study of biological

concepts focusing on observations, experimentation, record keeping, data collection and analysis, and presentation of outcomes. The course sequence also provides excellent preparation for students who intend to pursue post-graduate studies in the medical sciences.

Hours: 54 Lecture. 108 Lab.

#### **BIOL 201**

##### **Principles of Biology 2 (Diversity and Ecology) (C-ID: BIOL 135S)**

**Units: 5**

**Prerequisite:** BIOL 200

**Transfers to:** UC/CSU

This course continues the sequence of undergraduate preparation for biology majors. The course is a survey of the diversity of unicellular and multicellular life on earth, focusing on the relationships between structure and function, as well as evolutionary adaptations to their environments. Topics deal with classification, development, evolutionary relationships and ecological functions of living organisms inclusive of prokaryotes, fungi, protists, plants and animals. Laboratories will emphasize life forms, experimentation and dissections. Field trips will be used to examine organisms in their natural settings.

Hours: 54 Lecture. 108 Lab.

#### **BIOL 205**

##### **Molecular Biology and Biotechnology**

**Units: 4**

**Prerequisite:** BIOL 200, CHEM 130

**Transfers to:** UC/CSU

This course is designed for Life Science majors and introduces them to the basic concepts of biochemistry, molecular biology and molecular genetics; including protein structure and function, DNA structure and replication, transcription, RNA processing, translation, and recombinant DNA technology. Students will also be introduced to the science of biotechnology by providing both the theory and hands-on experience with laboratory protocols that include the isolation, purification, and cloning of a gene; including the use of restriction enzymes, electrophoresis, library construction, blotting and hybridization and sequencing. Polymerase chain reaction (PCR) will be explained in detail, particularly how it has revolutionized research in molecular biology, medicine, forensics, systematics and evolutionary biology.

Hours: 54 Lecture. 54 Lab.

#### **BIOL 206**

##### **Principles of Genetics**

**Units: 3**

**Prerequisite:** BIOL 200

**Transfers to:** UC/CSU

This course is designed for life sciences majors as a continuation of their general biology studies. The course covers a variety of topics relevant to the study of genetics, ranging from classical to nontraditional Mendelian genetics,

and from bacterial and viral genetics to human genetics, and includes studies on molecular techniques and their applications. Other topics will include chromosome analysis, and population genetics and genomics.

Hours: 54 Lecture.

#### **BIOL 222**

##### **Microbiology**

**Units: 5**

**Prerequisite:** CHEM 110

**Advisory:** BIOL 101

**Transfers to:** UC/CSU

This course encompasses the biology of microorganisms with an emphasis on the role of bacteria and viruses on human health and disease. Other topics include resistance and immunity to disease, basic biological principles, microbial genetics and physiology, the harmful and useful aspects of microorganisms in nature, medicine, and industry. Laboratory exercises emphasize sterile culture techniques and the detection, isolation, and identification of microorganisms. This course is intended for students preparing to enter careers in the health sciences.

Hours: 54 Lecture. 108 Lab.

#### **BIOL 226**

##### **Human Physiology (C-ID: BIOL 120B)**

**Units: 4**

**Prerequisite:** BIOL 125 and CHEM 110

**Advisory:** BIOL 101, BIOL 105

**Transfers to:** UC/CSU

This course is a general introduction to the function and regulation of human body systems. Physiological integration of the systems to maintain homeostasis and the significance of biochemistry is emphasized throughout the course. Course content includes neural and hormonal homeostatic control mechanisms, as well as the musculoskeletal, circulatory, respiratory, digestive, urinary, immune, and endocrine systems. Laboratory exercises allow students to gather physiological data and draw conclusions about how physiological mechanisms are regulated. This course is intended for students preparing to enter careers in the health sciences.

Hours: 54 Lecture. 54 Lab.

#### **BIOL 299A**

##### **Directed Study in General Biology**

**Units: 1-3**

**Prerequisite:** BIOL 200

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic

arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

#### **BIOL 299B**

##### **Directed Study in Health Science**

##### **Biology**

**Units:** 1-3

**Prerequisite:** BIOL 222 or BIOL 226

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

#### **BIOL 299C**

##### **Directed Study in Health Environmental Technology**

**Units:** 1-3

**Prerequisite:** BIOL 120

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for

independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

## **BIOTECHNOLOGY**

### **Division of Mathematics, Sciences, and Engineering**

#### **BIOT 100**

##### **Introduction to Biotechnology**

**Units:** 4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

The course will introduce students to the study of the biological sciences with an emphasis on the role that biotechnology plays in basic research and product development. The laboratory component will provide the students with hands-on introductory experiences in biotechnology techniques.

Hours: 54 Lecture. 54 Lab.

#### **BIOT 110**

##### **Introduction to Biotechnology Techniques and Applications**

**Units:** 4

**Prerequisite:** BIOT 100

**Transfers to:** CSU

The course will introduce students to the biotechnological techniques and their applications. The significant laboratory component will enable students to become familiar with the techniques and concerns of the biotechnology laboratory and its business applications. Techniques studied will include macromolecule isolation, purification and identification,

solution preparation and monitoring, as well as best practices for laboratory operation and documentation.

Hours: 36 Lecture. 108 Lab.

#### **BIOT 120**

##### **Quality and Regulatory Practices in Biotechnology**

**Units:** 3

**Transfers to:** CSU

This course serves as an introduction to basic quality principles and tools, with an emphasis on their application in fermentation practices. Students explore concepts related to quality control, quality assurance, validation, documentation, and regulatory compliance within this industry. The course prepares students for examination through the American Society for Quality (ASQ) to become a Certified Quality Improvement Associate (CQIA).

Hours: 54 Lecture.

#### **BIOT 130**

##### **Fermentation Technology 1**

**Units:** 5

**Advisory:** BIOT 110, BIOL 101, CHEM 110

**Transfers to:** CSU

This introductory-level course takes up fermentation technologies, and emphasizes especially batch yeast fermentations associated with the brewing of beer. The course covers the history, development, and current status of beer brewing; the biology and genetics of yeast; and the influence of raw materials on the final outcome of the brewing process. Emphasis is placed on current technologies involved in modern, small-scale brewing. In addition, the use of yeast as a general agent of biological change is discussed. The laboratory part of the course emphasizes the design, formulation, and execution of a specific product in a hands-on environment in order to simulate current industry standards and practices. Field trips of industrial fermentation sites are included.

Hours: 54 Lecture. 108 Lab.

#### **BIOT 230**

##### **Fermentation Technology 2**

**Units:** 5

**Prerequisite:** BIOT 110, BIOT 130, CHEM 110 or CHEM 120

**Transfers to:** CSU

This course is a continuation of Fermentation Technology 1 and focuses on bacterial fermentation in a laboratory setting. The course emphasizes the biological and genetic aspects of bacteria and the role of bacteria in the production of modern biotechnologies. Technologies particular to both batch and continuous fermentation processes and product identification and recovery are explored. Students are placed in a production-styled laboratory setting to produce and purify a particular bacterial product following current industry standards and protocols. Field



trips to local industrial installations will be used to highlight and clarify real-world applications.  
Hours: 54 Lecture. 108 Lab.

### **BIOT 240 Instrumental and Sensory Analysis in Biotechnology**

**Units:** 4

**Prerequisite:** BIOT 130

**Transfers to:** CSU

This advanced course takes up the laboratory analyses associated with industrial fermentations, with an emphasis on those analyses used in brewing. In addition, the course explores the techniques used in sensory analysis of foods—especially brewed beverages.

Hours: 54 Lecture. 54 Lab.

## **BUSINESS LAW**

### **Division of Business**

#### **BUSL 110**

**Legal Environment of Business (C-ID: BUS 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the legal, regulatory, and international environment of business. Included are the topics of alternative dispute resolution, the forms of business organization, regulations affecting employment, and current environmental statutes. Case studies are used to discuss torts, crimes, contracts and sales, warranty and product liability, labor law, employment discrimination, and environmental law.  
Hours: 54 Lecture.

## **CARPENTRY**

### **Division of Career and Technical Education**

#### **CARP 020H**

**Welding**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level**

**Prerequisite:** Indentured Apprentice with the State of California

This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry. Modules cover the following topics: history of the carpentry profession along with state and federal labor law, job layout, safe working conditions, health and safety certifications, basic blueprint reading, advanced blueprint reading, use and application of levels and transits, foundations, flatwork, wall

structures, stairs and ramps, welding materials and welding applications.

Hours: 20 Lecture. 20 Lab.

#### **CARP 020I Advanced Welding**

**Units:** 1

This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry. Modules cover the following topics: history of the carpentry profession along with state and federal labor law, job layout, safe working conditions, health and safety certifications, basic blueprint reading, advanced blueprint reading, use and application of levels and transits, foundations, flatwork, wall structures, stairs and ramps, welding materials and welding applications.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 040A**

**Orientation**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices It is advised that students have a knowledge of intermediate algebra concepts and read college-level texts.**

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers fundamental trade skills, employee/employer roles and responsibilities, and safe work practices needed for entry-level positions in the construction industry. While emphasis is placed on attaining industry-standard safety credentials, the course is designed to provide students with practical experience using construction terminology, math operations, basic measuring techniques, and tool identification and proper usage. Safety topics will cover Occupational Safety and Health Administration (OSHA) training for jobsite hazard recognition, accident prevention, and safe tool and equipment operation. Upon successful completion, students receive an OSHA 10-Hour Certification Card.  
Hours: 30 Lecture. 10 Lab.

#### **CARP 040B**

**Safety & Health Certifications**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the safe and appropriate use of hazardous communication systems, fall protection, fork lifts, and emergency response procedures. Students learn how to assess danger, employ prevention measures, and take appropriate action in emergencies. This training exposes students to various health emergency scenarios, and

provides students with ample opportunities to practice cardiopulmonary resuscitation (CPR) and first aid. Upon successful completion, students are issued an American Red Cross First Aid/CPR Certification Card, and United Brotherhood of Carpenters (UBC) Fall Protection, Hazard Communication and Chemical Safety, and Forklift Qualification Cards.  
Hours: 30 Lecture. 10 Lab.

#### **CARP 040C**

**Print Reading**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the basic skills needed for reading and interpreting construction prints. Material focuses on developing students' ability to interpret two-dimensional views to convey the shape and characteristics of construction elements and to provide an overview of the scope of the project. Students learn how to recognize standard drawing methods and pictorial views, and how to read visual and verbal communication cues.  
Hours: 30 Lecture. 10 Lab.

#### **CARP 040D**

**Transit Level/Laser**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the terminology, optical principles and operating procedures for transit laser levels. The conventional methods for measuring angles and using degrees, minutes, and seconds on veneer scales are included in the transit portion of the course. Students set up levels, determine benchmarks, and take and record elevation readings.  
Hours: 30 Lecture. 10 Lab.

#### **CARP 040E**

**Foundations and Flatwork**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers required and supplemental instruction for the design and function of several types of foundations and concrete flatwork; as well as the methods, techniques and procedures for formwork layout,

elevation, and construction. Topics like jobsite safety, print interpretation, material identification, and basic use of the builders' level are included in the training.

Hours: 20 Lecture. 20 Lab.

#### **CARP 040F**

##### **Wall Forming**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers skills and procedures required to form reinforced concrete walls using single and double waler systems. Identification of the characteristics and applications of built-in-place, prefabricated, and specialty forms are covered. Practical exercises prepare students for locating wall forming information on project plans, calculating layout dimensions, and estimating material requirements. Topics like basic wall panel forming and reinforcement methods, material preparation, and hardware installation are included in this course.

Hours: 20 Lecture. 20 Lab.

#### **CARP 040G**

##### **Stair and Ramp Forming**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers methods, procedures, and practices used to form stair and ramp structures. Students review project plans to determine stair and ramp configuration and overall dimensions. Stinger riser and stair thread calculations are explained and practiced; and state and federal building codes pertaining to stairs, ramps, and handrail requirements covered.

Hours: 20 Lecture. 20 Lab.

#### **CARP 040H**

##### **Commercial Floor Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers procedures for floor joist construction and the various installation techniques used in the commercial industry. Students interpret floor plans for job planning, identify floor joist systems, and calculate material take offs. Topics like integration of wall

plating, joist layout, and floor sheathing methods are included. Students learn measuring skills, the use of math operations, specialty hardware applications, and how to identify appropriate building codes.

Hours: 20 Lecture. 20 Lab.

#### **CARP 040I**

##### **Basic Roof Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course is an introduction to basic gable roof framing, including terminology, characteristics, and construction methods. Students interpret print views and drawing elevations for job planning, and also to determine rafter systems and layout details. Basic rise, run, rafter angles, and length calculations are practiced. Framed wall construction is undertaken to facilitate the gable roof assembly techniques and installation procedures that are the focus of the course.

Hours: 20 Lecture. 20 Lab.

#### **CARP 040J**

##### **Advanced Print Reading**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers required and supplemental instruction in advanced print reading. In this course, students analyze multi-view drawings to determine construction type, locate benchmark and building elements, review codes and references, and perform calculations for construction planning. A closer look at specifications with the instructors helps students understand how they are formatted and used to clarify specific project design outcomes. Additionally, tips for troubleshooting installation, complying with codes, and managing project scope and quality of construction prepare students for jobsite leadership.

Hours: 30 Lecture. 10 Lab.

#### **CARP 040K**

##### **Rigging**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers procedures for proper lifting and rigging methods as well as

information about and the history behind industry-recognized standards, applicable regulations, specific hazards, and general safety concerns associated with construction rigging. Detailed descriptions of hoisting and rigging configurations, lifting hardware, crane types, and operating issues are presented. In-class training takes up identifying standard signaling and communication methods, and stresses the importance of load calculations, manufacturer load limits, inspection criteria, and safe operator/operating parameters applicable to the carpenter trade. Upon successful completion, students will receive a United Brotherhood of Carpenters (UBC) Rigging Qualification Card.

Hours: 30 Lecture. 10 Lab.

#### **CARP 040L**

##### **Solar Installer Level I**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course provides students with an industry overview and outlook for photovoltaic (i.e., renewable) energy production. Key terms and concepts of photovoltaic system operations include solar cell technology, photovoltaic array configuration, series and parallel circuits, testing equipment, inspection, balance of system components, mounting methods, and applicable codes. Practical training covers site analysis, system orientation based on site location, safety concerns, utilization of construction tools, and skills for rooftop and ground mount system installations. Upon successful completion students receive a United Brotherhood of Carpentry (UBC) Solar Installer Level 1 Qualification Card.

Hours: 20 Lecture. 20 Lab.

#### **CARP 040M**

##### **Water Treatment Facilities**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry. The course provides instruction in the detailing, layout and construction of concrete formwork and waterstop used in water treatment facilities. The terms, components, materials, building techniques and procedures will be presented. The class project includes keyway, panel, waterstop, head wall and wing wall construction.

Hours: 20 Lecture. 20 Lab.

#### **CARP 040N**

##### **Green Building & Weatherization**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course begins with a detailed explanation of sustainable building science, materials recycling, and whole house audits, as well as a discussion of construction components and systems that contribute to energy efficiency. The differences in structural design such as joints, framing, windows and door openings, floors, and attics are evaluated for issues related to air flow and stack effect in conditioned spaces. Instruction includes thermal principles, air exchange rates, controlling air leakage, and ratings for insulation and fenestration, as well as air sealing methods. Best practices for renovation construction are demonstrated during practical exercises focused on implementing energy audit recommendations for insulation, air leak/duct sealing, window replacement, water conservation, hazard and moisture remediation and appliance upgrades, and combustion appliance zones (CAZ). Techniques and devices used to maintain healthy air quality during construction are employed for applicable activities.

Hours: 20 Lecture. 20 Lab.

**CARP 040P**

**Basic Wall Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course presents the theory, methods, and procedures required to frame basic walls. Hands-on practice using proper tool techniques and appropriate materials enhance fundamental skills development. Beginning with an introduction to print reading, students perform basic wall layout, plating procedures, and framing assembly and bracing before aligning and completing selected wall construction projects according to industry standards.

Hours: 20 Lecture. 20 Lab.

**CARP 040R**

**Tool/Equipment Applications**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers hand/power tool and

equipment skill development for various construction applications. Students identify correct practices for handling and preparing materials. Training includes how to select, use, and operate tools and aerial lifts correctly to prevent accidents and injuries. Scaffold safety and the proper procedures to erect and dismantle welded frame scaffold also are covered. Upon successful completion, students are issued a United Brotherhood of Carpenters (UBC) Aerial Lift and Scaffold Erector-Welded Frame Qualification Card.

Hours: 20 Lecture. 20 Lab.

**CARP 040S**

**Moldings and Trims**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers how moldings and trims are utilized to finish exterior and interior construction design features. Product styles, characteristics, applications, and installation methods are covered. Students learn about and practice with tools in order to learn cutting techniques, coping, and the installation of various molding and trim types.

Hours: 20 Lecture. 20 Lab.

**CARP 040T**

**Storefront Installations**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers all aspects of the installation process, from constructing storefront openings through placing glass components into the commercial storefront metal framing. Emphasis is placed on print interpretation, window and door schedules, and symbols and material recognition. Key discussions draw attention to typical problems, causes, and solutions encountered during the glazing assembly and installation processes. In-class training takes up glazing tools and techniques, applicable building/fire codes, layout accuracy, and proper fit and alignment.

Hours: 20 Lecture. 20 Lab.

**CARP 040V**

**Basic Metal Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with

the State of California who are interested in the carpentry industry. The course provides an overview of residential metal framing theory and construction techniques. Students interpret prints for job planning and estimating materials, and learn about layout and detail wall plates for locating all wall and truss components and openings. Instruction includes measuring techniques, mathematical principles, wall and roof assembly, and installation techniques.

Hours: 20 Lecture. 20 Lab.

**CARP 050A**

**Basic Commercial Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course introduces students to the basic rake wall framing theory and commercial construction techniques and materials. Students use floor plan interpretation for job planning, design recognition, and determining materials. Students lay out and detail wall plates for locating basic rake wall components and door openings typically found in commercial construction applications. Instruction includes measuring skills, mathematical principles, wall assembly and installation procedures, and details about how structural connections are made.

Hours: 20 Lecture. 20 Lab.

**CARP 050B**

**Cabinet Installation**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course provides procedures for design layout, cabinet installation, and attaching countertops, with emphasis placed on print interpretation, job planning, scribing techniques, and proper installation sequence. Students use methods and specific procedures to install typical upper and lower cabinetry units and countertops.

Hours: 20 Lecture. 20 Lab.

**CARP 050C**

**Doors and Door Hardware**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the installation processes



for several types of security and exit door hardware. Topics include electrical and card reader systems, and emphasis is placed on print interpretation, codes, door schedules, symbols, and hardware recognition. Students use the methods and procedures they learn to install selected door and hardware systems. Hours: 20 Lecture. 20 Lab.

**CARP 050D  
Basic Stairs**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course introduces students to stair framing theory, terminology, and construction techniques. Students interpret floor plans and drawing elevations for job planning and to layout and detail stair stringers. Methods for calculating the number of stairs, landing height, stair threads, and riser dimensions are presented and practiced. Instruction includes measuring skills, mathematical principles, stair and handrail fabrication, assembly, and installation. Hours: 20 Lecture. 20 Lab.

**CARP 050E  
Bridge Construction**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers bridge design and construction methods and procedures, and takes up exterior and interior girders, edge forms, bulkheads, and hinge forms. Discussion topics include job-built and precast formwork methods. Students construct bridge and deck formwork using job-built forming methods, with a formwork project that includes panel construction, assembly, and hardware installation tasks. Related subjects including safety, math, and print reading are also covered in the training. Hours: 20 Lecture. 20 Lab.

**CARP 050F  
Tilt Up Construction**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers layout techniques and building procedures for commercial structures using the tilt-up panel

construction method, with discussion topics including various wall types, position, and sequences for raising panels. Emphasis is placed on identifying specific types of openings, as well as the location of finish floor and roof lines on prints. By the end of the course, students are able to explain the importance of layout methods in squaring panel formwork. Hours: 20 Lecture. 20 Lab.

**CARP 050G  
Beam and Deck Forming**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course is an introduction to the use of various woods and patented forming systems for construction of concrete beams and decks. Students identify formwork types and installation techniques including calculating materials and setting beam and deck forms. Metal beam forms and capitals are highlighted. Additionally, layout and builders level skills are used in this class. Hours: 20 Lecture. 20 Lab.

**CARP 050H  
Gang Forms/Columns**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course is an introduction to formwork types, applications, and construction methods for gang and column forms using built and manufactured forming systems. Discussions cover heavy timber gang forms and use of taper ties, bracing, and bulkhead tables. The course project includes gang and column formwork construction, assembly, and hardware using selected manufactured products. Related safety, math, and print reading will be covered in this course. Hours: 20 Lecture. 20 Lab.

**CARP 050I  
Abutments**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers formwork construction skills for the abutment support structure used in most bridge and heavy highway projects. Students

identify abutment anatomy and learn about footing layout, form detailing, and construction techniques used in the industry. Terminology, components, form materials, building code requirements, and sequences of construction are presented, and students work collectively to complete an abutment formwork project including keyway, panel, headwall, and wing wall construction. Hours: 20 Lecture. 20 Lab.

**CARP 050J  
Exterior Finish Details**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the terminology, design considerations, and construction techniques for various types of exterior finish detail installations. Students use plan views and drawing elevations for job planning activities, including calculating dimensions and materials, identifying wall covering types, and other exterior construction details. Students use the construction techniques they learn to complete various exterior detail installations to print specifications. Hours: 20 Lecture. 20 Lab.

**CARP 050K  
Advanced Stairs**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers basic stair construction before presenting advanced skills needed to perform circular and "u-shaped" stair framing tasks. Students interpret floor plans and drawing elevations for job planning, and to layout and construct advanced stair designs. Students will adapt stair calculations to determine the number of stairs, landing height, stair tread, and riser dimensions. In addition to measuring skills, mathematical principles, and stair and handrail fabrication and assembly, the course covers installation techniques required for circular and u-shaped stair configurations. Hours: 20 Lecture. 20 Lab.

**CARP 050L  
Advanced Commercial Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers advanced commercial wall framing theory and construction techniques with structural hardware and shear panel installation. Students interpret floor plans for job planning and to lay out and detail plates for complex wall configurations, rake walls, and openings. Instruction includes measuring skills, the use of mathematical principles, advanced rake wall construction design, plywood shear panel installation, and structural hardware attachment.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050M**

##### **Bridge Falsework**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers bridge falsework design and construction methods and procedures. The techniques for bent assemblies, base sub-assemblies, deck soffits and hardware installation are presented. Falsework tasks include rigging and alignment techniques, and relevant safety, math, and print reading are covered in the in-class training.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050N**

##### **Advanced Roof Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the advanced skills used to frame hip roof types, including terminology, roof characteristics, and construction methods. Students interpret print views and elevations for job planning to determine hip roof rafter systems and layout details. Students perform rise, run, rafter angles, and length calculations. Framed wall construction is incorporated to facilitate hip roof assemble techniques and installation procedures.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050P**

##### **Panelized Roofing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The

course covers the structural components and building techniques associated with heavy timber construction and panelized roof systems, and includes discussions about the advantages of different types of manufactured wood used in these processes, including their load carrying strength, span, and spacing. Emphasis is placed on the distinction between standard post and beam and heavy timber construction. Students interpret floor plan, section views, and drawing elevations for job planning, and to lay out and construct a heavy timber post-and-beam-supported panelized roof.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050R**

##### **Intermediate Commercial Framing**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course goes beyond basic wall framing theory, and involves the application of wall construction techniques that require greater skill levels. Topics include a review of basic wall framing and floor plans used for job planning, design recognition, and materials lists. Students lay out and detail wall plates for locating basic wall components and door openings. Instruction details how structural connections are made, and includes measuring skills, mathematical principles, wall assembly, and installation procedures.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050S**

##### **Intermediate Stairs**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course uses floor plans and print elevations at an intermediate level to enhance developing students' basic stair construction skills. Students interpret prints to complete job planning, project layouts, and material cut lists for "L-shaped" stair designs. Stair calculations are used to determine the number of stairs, landing height, stair thread, and riser dimensions for assigned projects.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050T**

##### **Drywall Applications**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers required and supplemental instruction for carpentry apprentices, and focuses on the commercial and residential skills necessary to properly handle and install drywall used in specialized applications including fire resistance, sound control, and for-life safety. Layout, cutting, attachment procedures, and productivity techniques are discussed and practiced under jobsite conditions. Wall framing and drywall finishing methods are incorporated into the hands-on activities.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050U**

##### **Interior Elevations**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers required and supplemental instruction for carpentry apprentices, including the techniques and skills used in construction of interior spaces. Print elevation views and details are utilized for job planning and design recognition, and to determine materials. Students lay out and detail interior walls, surfaces for arches, soffits, and trim installation. Instruction includes a review of transit and builder levels, measuring skills, and cutting techniques for inside/outside corners and radius cuts.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 050V**

##### **Welding Fabrication**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course is designed as an introduction to layout and basic welding and fabrication. Students are introduced to the basic skills of measuring, equipment setup and cutting, shaping, grinding, welding, filing, heating, and bending metal parts. Training includes fundamental arc welding techniques to fabricate project components.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060A**

##### **Cabinet, Millwork and Assembly**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course provides details of cabinetry fabrication from design and function through the complete production process. Emphasis is placed on print interpretation, job planning, and proper construction sequence. Countertops and hardware styles and types are discussed. Students use the methods and procedures presented to build typical base casework to industry standards.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060B**

##### **Plastic Laminates**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the materials, tools, and adhesive application techniques for fabricating plastic laminated countertops. Also covered is the installation of plastic laminates, including function and design. Students review prints to determine substrates and laminate material types, and to calculate countertop dimensions. Emphasis is placed on installation methods and techniques for drop edges and backsplashes, as well as cleaning and repair. Students design and install a countertop to specifications while using tools and other equipment correctly.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060C**

##### **Doors and Door Frames**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the installation process of doors and door frames, from constructing rough openings to hanging and adjusting doors. Emphasis is placed on print interpretation, door schedules, symbols, and hardware recognition. Students use the methods and procedures covered during the course to install select frames and doors.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060D**

##### **Stair Trim**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers how various trims are utilized to finish stair construction design features. Students use the techniques presented to complete a stair, railing, and wall project. Product styles, characteristics, applications, and installation methods are included in the discussions. The tool techniques for cutting materials, mitering corners, and installing selected trim types are presented and practiced throughout the training.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060E**

##### **Commercial Fixtures**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers print interpretation and fabrication techniques used in the preparation and installation of commercial store fixtures. Emphasis is placed on pre-job planning, proper hand and power tool use, and safety measures. Students apply the procedures covered in the course to complete valance and wall panel installations.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060F**

##### **Fitting Rooms/Partitions**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040B, CARP 040A

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers style comparison, attachment methods, and installation techniques for various fitting room and partition fixtures. Framing elements, mounting brackets, and panel products are covered. Students use procedures covered in the course during fitting room and partition application projects.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060G**

##### **Exit & Electrical Security Devices**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the classifications, types, models, codes, and uses for accident hazard exit (i.e., "panic") devices and fire exit devices. A range of

security products and door hardware used in the industry (e.g., crossbars, latches, flush bolts, and kick plates) are discussed, and the proper selection, installation, and adjustment techniques for selected devices are included.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060H**

##### **Solid and Stone Surfaces**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinet work industry. The course provides both basic and advanced assembly and installation techniques for solid surface, natural stone, and manufactured materials. Topics include various products, designs, materials, accessories, maintenance, repairs and safety considerations. Discussions about typical applications for different surface types aid in the identification of suitable materials. Students use the procedures covered in the course to fabricate countertops with backsplashes and create a design inlay.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060I**

##### **Hand/Power Tool Usage**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the proper selection, safe use, and maintenance of both hand and power tools. Students learn to distinguish conditions when the use of hand and power tools are appropriate alternatives to stationary saws and equipment. Discussions help students identify key tool features, accessories, and tasks that can be performed using a variety of methods and techniques. Practical exercises focus on various saw types, hand planes, and handheld drills.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060J**

##### **Power Tools and Stationary Equipment**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course provides instruction for the power tools and stationary equipment typically used in millwork production. Students identify appropriate procedures and machining operations

for various milling applications. Practical exercises focus on shaping materials using various types of stationary saws, planes, sharpeners and power tools.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060K**

##### **Print Reading and Stock Billing**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course focuses on working drawings used in the designing and building of a project. Instruction includes an explanation of the methods and procedures used to identify the components and materials needed to finish projects. Students study floor plans, elevations, and detail drawings to determine the design, wood types, style, and features of construction and assembly details.

Hours: 30 Lecture. 10 Lab.

#### **CARP 060L**

##### **Material and Hardware Applications**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the characteristics and construction suitability of various types of wood, woodworking materials, and hardware typically used in the cabinet making industry. Emphasis is placed on cabinet making design and wood selection. Working with a variety of wood samples, students develop the ability to recognize the natural qualities associated with a particular wood species. Practical exercises include handling selected wood species, and provide experience working with a variety of hardware.

Hours: 20 Lecture. 20 Lab.

#### **CARP 060M**

##### **Production Casework and Assembly**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinet work industry. The course provides details of cabinetry fabrication, from design and function through the complete production process. Emphasis is placed on print interpretation, job planning, and proper construction sequence. Countertops and hardware styles and types are discussed. Students use the

methods and procedures covered in the course to build typical base casework to industry standards.

Hours: 20 Lecture. 20 Lab.

#### **CARP 060N**

##### **Laminates and Overlays**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinet work industry. The course covers materials, tools, and adhesive application techniques for the fabrication and installation of plastic laminated countertops. Students review prints to determine substrates and laminate material types, and to calculate countertop dimensions. Emphasis is placed on installation methods and techniques for drop edges and backsplashes, as well as cleaning and repair. Students design and install a countertop to specifications while using tools and other equipment correctly.

Hours: 20 Lecture. 20 Lab.

#### **CARP 060P**

##### **Jigs, Fixtures and Accessories**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinet work industry. The course provides instruction for jigs, fixtures, and other accessories typically used with power and stationary tools for the production of millwork. A wide range of accessories and their applications are identified during training, and discussions enable students to explain when and how add-on equipment makes work easier and improves productivity. Students use the techniques covered in the course to select and attach accessories and to fabricate custom jigs.

Hours: 20 Lecture. 20 Lab.

#### **CARP 060R**

##### **Millwork and Specialty Applications**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinet work industry. The course covers how moldings and trims are utilized to finish wall and cabinets. Students are introduced to product styles, characteristics, and millwork; specialty applications and installation methods are also included in this training. The tool techniques for milling profiles,

measuring, cutting, coping, and installing various molding, trim, and specialty items are presented and practiced throughout the course.  
Hours: 20 Lecture. 20 Lab.

#### **CARP 060S**

##### **Computerized Project Planning and Estimating**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinetmaker industry. The course focuses on computerized project planning and estimating tasks. Training begins with a brief review of basic computer operations. Students use project prints and specifications to determine material types, sizes, and quantities; and to plan and estimate material and labor costs using Microsoft Windows, Word, and Excel worksheets.

Hours: 40 Lecture.

#### **CARP 060T**

##### **Computer Applications CAD-CAM**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinetmaker industry. The course focuses on computerized software used to create production drawings and cabinetry designs. Training includes a brief review of basic computer operations, including access to software, internet, and email programs. Students become familiar with the organization of computer aided design (CAD) software user interface (AutoCAD 2014), basic drawing commands, and file saving tools. Discussion includes an overview of computer aided manufacturing (CAM) from design to production, and students use CAD drawing tools to create a base cabinet design.

Hours: 40 Lecture.

#### **CARP 060V**

##### **Building Information Modeling Concepts**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinetmaker industry. The course focuses on computerized software used in project management planning, workflows, and troubleshooting. Training includes a brief review of basic computer operations, including access to



software, internet, and email programs. Students analyze building information modeling (BIM) project data to grasp basic concepts related to viewing three-dimensional building models, project scheduling, and construction problem-solving features.  
Hours: 40 Lecture.

**CARP 060W**  
**Building Information Modeling**  
**Computer Applications**

**Units:** 2

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the mill and cabinetmaker industry. The course focuses on computerized software used to develop three-dimensional models of construction projects. Training provides an introduction to the design process using various drawing software. Students practice importing and exporting design elements into building information modeling (BIM) organization structures for project management and workflow assessment. The course also includes a review of basic computer skills.  
Hours: 40 Lecture.

**CARP 070A**  
**Basic Frame Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the basic techniques and procedures used to erect frame scaffolds, with construction practices and safety considerations as a major focus of the course. Scaffold standards and industry-wide, enforced regulations are presented and utilized in hands-on projects. Students identify frame scaffold components and the importance of site and equipment inspections, and erect typical frame scaffold assemblies according to industry standards.  
Hours: 20 Lecture. 20 Lab.

**CARP 070B**  
**Basic System Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the basic techniques and procedures used to erect system scaffolds, with construction practices and safety considerations as a major

focus of the course. Scaffold standards and industry-wide, enforced regulations are presented and utilized in hands-on projects. Students identify system scaffold components and the importance of site and equipment inspections, and erect typical system scaffold assemblies according to industry standards.  
Hours: 20 Lecture. 20 Lab.

**CARP 070C**  
**Basic Tube and Clamp Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the basic techniques and procedures used to erect tube and clamp scaffolds, with construction practices and safety considerations as a major focus of the course. Scaffold standards and industry-wide, enforced regulations are presented and utilized in hands-on projects. Students identify tube and clamp scaffold components, access, inspection, and assembly and disassembly procedures, and install components for multi-bay and multi-tier scaffolds according to industry standards.  
Hours: 20 Lecture. 20 Lab.

**CARP 070D**  
**Basic Suspended Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the basic techniques and procedures used to install suspended scaffolds, with training focused on the terminology and use of scaffold components in cable (i.e., wire rope) suspended configurations. Topics include anchorage systems, structural supports, hoists, and suspension devices. Students form eyes in wire rope using proper clamping techniques, and safety hazards and increased fall protection measures are taken as students follow design plans to construct cable-suspended scaffolds.  
Hours: 20 Lecture. 20 Lab.

**CARP 070E**  
**Intermediate Frame Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. Students learn the skills required to

construct elevated platforms that span a large area, with emphasis placed on the importance of verifying that the first bay is plumb, level, and square at the same time practices for attaching and aligning multi-bay scaffolds in both width and length directions are explained. Students access various methods of distributing platform loads, employ proper procedures to elevate each row of bays to maintain a uniform and level platform, and use presented techniques to erect multiple connected and non-connected scaffold bays to industry standards.  
Hours: 20 Lecture. 20 Lab.

**CARP 070F**  
**Intermediate System Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. Students learn the skills required to construct elevated platforms that span a large area, and then use presented techniques to erect multiple connected and non-connected scaffold bays.  
Hours: 20 Lecture. 20 Lab.

**CARP 070G**  
**Advanced Frame Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course teaches students how to adapt scaffold configurations to follow the contour of a building's architectural features and height limitations. Students use the proper terminology to describe structural and design elements typically found in construction; utilize reach limitation guidelines to determine maximum platform height; and erect a frame scaffold to conform to angles, slopes, obstacles and obstructions of walls and /or ceilings.  
Hours: 20 Lecture. 20 Lab.

**CARP 070H**  
**Advanced System Scaffold**

**Units:** 1.5

**Enrollment restricted to State**  
**Indentured Carpenter Union**  
**Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

**Advisory:** MATH 070 or appropriate placement, READ 022 or appropriate placement

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course teaches students how to adapt scaffold configurations to follow the contour of a building's architectural

features and height limitations. Students erect a frame scaffold to conform to angles, slopes, obstacles and obstructions of a wall and/or ceiling.

Hours: 20 Lecture. 20 Lab.

#### **CARP 070I**

##### **Advanced Suspended Scaffold**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the advanced techniques and procedures required when constructing suspended scaffolds supported by structural members. Students identify the suitable structural components for this application type, and the methods used to determine load bearing capability of structural elements are presented. Hazards and precautionary techniques associated with safely building this type of suspended platform are the focus of this training.

Hours: 20 Lecture. 20 Lab.

#### **CARP 070J**

##### **Confined Space**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers safe access, entry, and monitoring methods for work-confined spaces. Terminology, hazard recognition, air quality, and the use of various types of personal protective and respiratory equipment are presented. Students complete simulated work tasks and emergency rescue procedures utilizing a mock up. Upon successful completion of the course students are issued a United Brotherhood of Carpenters (UBC) Confined Space Qualification Card.

Hours: 30 Lecture. 10 Lab.

#### **CARP 070K**

##### **Scaffold Reshoring**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the basic techniques and procedures associated with frame, system, and tube and clamp scaffold components used in industrial settings. Regulations, terminology and components used in these systems types are discussed in depth.

Construction practices and safety considerations include plant operating processes, equipment, hazardous material awareness, and emergency response. Students identify and erect equipment using basic configurations suitable for jobsites where industrial scaffolds are commonly used during maintenance cycles.

Hours: 20 Lecture. 20 Lab.

#### **CARP 070L**

##### **Specialty Scaffold Applications**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers specialty scaffold applications focusing on ramps, chutes, and mobile towers suitable for light and heavy duty use. Students identify the characteristics of commercial and industrial scaffold construction. The selected projects for the course introduce the techniques and procedures used for access/egress, debris handling, and maintenance scaffolds.

Hours: 20 Lecture. 20 Lab.

#### **CARP 070N**

##### **Scaffold Erector Qualification**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course is designed to comply with applicable regulations and to provide students with industry-recognized general scaffold building credentials. A fundamental approach and careful explanation of scaffold-built applications is presented, including safety and terminology, elevated platform intended use, span and loading criteria, access and egress, stability, structural connections, and inspections. Detailed project drawing review provides practical experience in locating dimensions and determining layout and scaffold material requirements. Emphasis on erection/dismantling sequence fosters the development of job planning, preparation skills, and applied math. The importance of a safety program that includes site specific conditions, communication, and fall protection is addressed during scaffold construction exercises.

Hours: 20 Lecture. 20 Lab.

#### **CARP 070P**

##### **Industrial Scaffolding**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union**

#### **Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the basic techniques and procedures associated with frame systems and tube and clamp scaffold components used in industrial settings. A major focus of the course is construction practices and safety considerations, including general plant operating conditions and hazards. Upon successful completion of the course students are issued a United Brotherhood of Carpenters (UBC) Scaffold Qualification Card (standard 40-hour training).

Hours: 20 Lecture. 20 Lab.

#### **CARP 080A**

##### **Basic Wood Flooring Installation**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course provides an introduction to wood flooring materials and installation techniques. Students study the characteristics of various hard and soft wood species typically chosen for grade, durability, and color. The inspection of existing subfloors is discussed, and procedures for installing new subfloors are included. The proper preparation and installation sequence of wood strips and plank flooring is the main focus of the training.

Hours: 20 Lecture. 20 Lab.

#### **CARP 080B**

##### **Borders**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the fabrication and production skills used to create borders for wood flooring installations. Students interpret floor plans to determine details for border designs and estimate materials. Instruction include designs considerations, geometric layout procedures, and techniques for maintaining border symmetry.

Hours: 20 Lecture. 20 Lab.

#### **CARP 080C**

##### **Parquet Flooring**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with

the State of California who are interested in the carpentry industry. The course covers the methods and techniques for installing parquet flooring. Students study the characteristics of various parquet flooring patterns, and evaluate the suitability of hard and soft woods for use in parquet flooring patterns. The inspection, patching, and leveling of existing subfloors are discussed and practiced. The proper preparation and installation sequence of parquet wood flooring is the main focus of the training.

Hours: 20 Lecture. 20 Lab.

#### **CARP 080D**

##### **Advanced Patterns**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union**

##### **Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the fabrication and installation skills used in the production of custom wood flooring design. Students study examples of artistic wood floor elements including geometric patterns, color variations, and the inclusion of materials other than wood. Students create a design pattern for a custom wood floor medallion, and use the techniques and skills presented to complete the medallion project.

Hours: 20 Lecture. 20 Lab.

#### **CARP 080E**

##### **Diagonal and Herringbone Patterns**

**Units:** 1.5

**Enrollment restricted to State Indentured Carpenter Union**

##### **Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the fabrication and installation skills used in the production of diagonal and herringbone flooring patterns. Students interpret floor plans to detail pattern assemblies and estimate materials. Instruction includes design considerations, geometric layout procedures, and techniques for maintaining pattern symmetry.

Hours: 20 Lecture. 20 Lab.

#### **CARP 080F**

##### **Crew Lead Training**

**Units:** 2

**Enrollment restricted to State Indentured Carpenter Union**

##### **Apprentices**

**Prerequisite:** CARP 040A, CARP 040B

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the carpentry industry. The course covers the supervisory and crew leadership skills required for

professional development in the wood flooring industry. Topics include typical work processes, communication methods, customer service considerations, motivational concepts and problem solving techniques that, when employed, result in the efficient and effective management of wood floor installation. Various project scenarios are used to conduct classroom exercises.

Hours: 40 Lecture.

#### **CARP 290**

##### **Work Experience in Carpenters**

**Units:** 1-4

**Enrollment restricted to State Indentured Carpenter Union**

**Apprentices It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course provides students the opportunity to work in the Carpenters apprenticeship program for the purpose of developing specific skills to meet the goals and objectives of the Carpenters Joint Apprenticeship and Training Committee (J.A.T.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all Work Experience course offerings. Only one Work Experience course may be taken per semester.

Hours: 3 Lecture. 72-297 Lab.

## **CHILD DEVELOPMENT**

### **Division of Behavioral and Social Sciences**

#### **CD 102**

##### **Nutrition, Health and Safety for Children (C-ID: ECE 220)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in working in group care and/or educational programs that enroll children from infancy to early adolescence. The course focuses on preventative health and safety practices in group care environments for both children and adults, and integrating these practices into daily program planning and development. The course also introduces students to the laws, regulations, standards, policies and procedures, and child development curriculum related to child nutrition, health, and safety. Topics include prevention and recognition of infectious disease, immunization, dental and mental health, child nutrition, menu planning, sanitary food handling, injury prevention, emergency preparedness and evacuation, and providing services for children with special needs; as well as child abuse prevention, identification, and reporting

responsibilities. The importance of program collaboration with families and health professionals also is addressed. This course meets the Department of Social Services (DSS) Classification Indicator DS7 and the State of California Department of Education Title 5 Child Development Permit.

Hours: 54 Lecture.

#### **CD 103**

##### **Parenting**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in learning how to understand and work effectively with parents, and to understand the parent-child relationships in their own lives. The course provides a framework for topics pertinent to current parenting concepts. Topics include understanding the parenting process from infancy to adulthood, parenting in diverse cultures, various lifestyles and family structures, alternatives to biological parenting, and understanding high-risk families.

Hours: 54 Lecture.

#### **CD 106**

##### **Child Growth and Development (C-ID: CDEV 100)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: CD 106 or PSY 112

This course provides an overview of human growth from conception to adolescence. The theories of development relevant to life through the teenage years are introduced and the social, emotional, cognitive and physical aspects of these early stages of life are addressed. This course is appropriate for students preparing for a profession working with children and their families or those interested in furthering their understanding of child and adolescent development. This course is also designed to meet the Department of Social Service Classification DS1 and applies toward the State of California Title 5 requirement for the Child Development Permit.

Hours: 54 Lecture.

#### **CD 110**

##### **Principles and Practices of Early Childhood Education (C-ID: ECE 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU



This course is designed for students who seek to work in educational programs for children from birth to age eight. The course examines the underlying theoretical principles of developmentally appropriate practices applied to programs and environments, emphasizing the key role of relationship, constructive adult-child interaction, and teaching strategies in supporting physical, social, creative, and intellectual development for all children. This course includes a review of the historical roots or early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity. This course applies towards the childcare licensing category 3 (DS3) as authorized by Title 22 within the California Department of Social Services (CDSS), as well as the California teacher credentialing requirements for the child development permit.  
Hours: 54 Lecture.

**CD 111**  
**Early Childhood Education Curriculum (C-ID: ECE 130)**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This introductory course presents current concepts in childhood curriculum development and implementation. The student will design curriculum based on observation and assessment of young children to support play and learning using developmental, inclusive and anti-bias principles in collaboration with families to support all children; demonstrate knowledge of the teachers' role in evaluating best practices and apply understanding of children's learning and development. This course is meant for students who plan to create and implement children's educational programs. This course is also designed to meet the State of California Title 22 Department of Social Service Classification Indicator DS3 and applies toward the State of California Title 5 requirements for the Child Development Permit.  
Hours: 54 Lecture.

**CD 114**  
**Observation and Assessment (C-ID: ECE 200)**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students working towards a Child Development Permit. The course focuses on the appropriate use of assessment and observation strategies applied to document development, growth, play, and learning in order to join with families and professionals in promoting

children's success and maintaining quality programs. Recording strategies, rating systems, portfolios, and multiple assessment methods are explored. Advantages and disadvantages of observation techniques, observer bias, and cultural considerations are discussed. This course meets the Department of Social Services (DSS) Classification Indicator DS3 and applies toward the State of California Title 5 requirement for the Child Development Permit.  
Hours: 54 Lecture.

**CD 115**  
**Creative Art Experiences for Children**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is a comprehensive study of creativity and its impact on child development. A developmental perspective is utilized as students explore creative art and its impact on the whole child, the artistic development process, aesthetics, the elements of art, specific art program approaches, artistic styles, facilitating and supporting creative art experiences for children, art assessment techniques, and specific art experiences. This course is appropriate for students interested in working with children in group care and educational environments. This course applies towards the childcare licensing category 3 (DS3) as authorized by Title 22 within the California Department of Social Services (CDSS), as well as the California teacher credentialing requirements for the child development permit.  
Hours: 54 Lecture.

**CD 118**  
**Development of Science and Math Experiences**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students preparing for a career in teaching children, and provides a framework from which to explore the theories, philosophies, principles, and implementation of science and math experiences for children from birth to early adolescence. Emphasis is placed upon theoretical and developmental foundations with practical application in the form of developmentally appropriate activities for use in schools and child care centers. The course meets the Department of Social Services (DSS) Classification Indicator DS3 and applies towards the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

**CD 119**

**Music and Movement for Children**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in working with children in group care and educational programs, and offers a framework for providing developmentally appropriate music and movement principles and experiences for children from birth to early adolescence. The developmental characteristics of movement and music abilities, the basics of movement, and music education are outlined. Students participate in music- and movement-related activities. The course meets the Department of Social Services (DSS) Classification Indicator DS3 and applies towards the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

**CD 120**  
**Experiences in Language Arts**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in promoting and facilitating the language development of children. The course is a study of the philosophies, principles, and implementation of language arts experiences for children from birth to early adolescence. The theoretical bases of language development and systems of teaching literacy are addressed. Literature, dramatics, flannel board stories, puppetry, and storytelling are incorporated into the course as strategies for language acquisition as well as literacy activities. The course meets the Department of Social Services (DSS) Classification Indicator DS3 and applies towards the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

**CD 208**  
**Child, Family, and Community (C-ID: CDEV 110)**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students desiring to work with children in a group setting, as well as for parents and others who wish to further their understanding of how the socio-cultural environment affects the developing child. The course examines the historical and contemporary interrelationship of family, school and community on child development. The process of socialization and identity

formation will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. This course meets the Department of Social Services Classification Indicator DS2 and the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

#### **CD 211**

##### **Infant and Toddler Development**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course studies infants and toddlers from pre-conception to age three, including physical, cognitive, language, social, and emotional growth and development. The focus of this course applies theoretical frameworks to interpret behavior and interactions between heredity and environment; it also emphasizes the role of family and relationships in development. This course meets the Department of Social Services (DSS) Classification Indicator DS4 and applies towards the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

#### **CD 213**

##### **Care and Education for Infants and Toddlers**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course applies current theory and research to the care and education of infants and toddlers in group settings. The course examines essential policies, principles, and practices that lead to quality care and developmentally appropriate curriculum for children from birth to 36 months. The course meets the Department of Social Services (DSS) Classification Indicator DS4 and applies towards the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

#### **CD 224**

##### **Diversity Issues During Early Childhood, School Age, and Adolescence (C-ID: ECE 230)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in working in children's programs and educational settings, and addresses the similarities, variety, and multiplicity found within programs and educational settings for young children, school age children, and adolescents.

Topics covered include family values, culture, race, gender, social class, sexual preference, language, and abilities. Focus also is placed on developmental appropriateness in addressing diversity, parental perspectives, and the effects of diversity on the domains of development. This course meets the Department of Social Services (DSS) Classification Indicator DS 3 and applies towards the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

#### **CD 226**

##### **Introduction to Special Education**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students who want to work in children's programs or educational environments, preparing them to facilitate the learning and development of children with special needs. The course introduces the variations in the development of children with special needs, ages birth through eight, and the resulting impact on families; it also includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. This course applies toward the State of California Teacher Credentialing requirements for the Child Development Permit.  
Hours: 54 Lecture.

#### **CD 228**

##### **Early Childhood Education Practicum (C-ID: ECE 210)**

**Units:** 3

**Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are necessary to fulfill the lab requirement of this course.**

**Prerequisite:** CD 106, CD 110, CD 111, CD 114 and CD 208

**Transfers to:** CSU

In this capstone course, the student will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of Child Development faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child-centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. This course is designed for students looking for a supervised field/laboratory

experience in an early childhood setting. The course meets The Department of Social Services Classification Indicator DS3 and applies towards the State of California Department of Education Title 5 Child Development Permits.

3.4 consecutive hours of weekly supervised field experience at the Rio Hondo College Child Development Center are required. Schedule must be established to the start of the semester. Beginning times are typically 7:30am, 8:30am, 9:30 am or 1:45 pm. Verification of freedom from tuberculosis and immunizations against influenza, pertussis, and measles are required prior to the semester's start. For more information, contact [CDcinfo@riohondo.edu](mailto:CDcinfo@riohondo.edu).  
Hours: 36 Lecture. 54 Lab.

#### **CD 229**

##### **Literacy Development for Children**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in facilitating and supporting literacy development in children enrolled in group care and educational environments. Focus is placed on effective skills and techniques utilized by teachers and caregivers to enhance the development of emergent literacy skills throughout childhood. Students develop knowledge of the sequence of literacy and language development, developmentally appropriate practices in classroom environments, and a balanced literacy approach. Effective assessment and curriculum and techniques to promote skill development are also introduced. The course meets the Department of Social Services (DSS) Classification Indicator DS3 and applies towards the State of California Department of Education Title 5 Child Development Permit.  
Hours: 54 Lecture.

#### **CD 232**

##### **Curriculum and Strategies for Children with Special Needs**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. It focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Topics include the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. The course meets the Department of Social Services (DSS) Classification Indicator

DS3 and applies towards the State of California Department of Education Title 5 Child Development Permit. < Hours: 54 Lecture.

## CHEMISTRY

### Division of Mathematics, Sciences, and Engineering

#### CHEM 110

##### Chemistry for Allied Health Majors

Units: 5

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an elementary algebra or pre-statistics course. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: CHEM 110, CHEM 120; no credit if taken after CHEM 130

This introductory course takes up the fundamental concepts of general, organic, and biological chemistry. Emphasis is placed on the relationship between chemistry and the health/medical sciences, so the course is especially appropriate for students who intend to pursue a career in nursing and other health-related professions, including kinesiology and psychology. Weekly laboratory activities require students to empirically verify concepts presented in lectures. No previous background in chemistry is required or expected of students enrolling in this course.

Hours: 72 Lecture. 54 Lab.

#### CHEM 120

##### Introduction to Chemistry (C-ID: CHEM 101)

Units: 5

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an intermediate algebra course. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limitation. Students will receive credit for only one of the following courses: CHEM 110, CHEM 120; no credit if taken after CHEM 130

This one-semester course is designed for students intending to major in science or engineering. The course primarily prepares students for CHEM130; additionally, it fulfills the General Education requirement in the physical sciences. This course introduces the fundamental principles of general chemistry, with emphasis on chemical nomenclature and quantitative problems in chemistry. The lecture presents classical and modern chemistry, including atomic theory, periodic properties, chemical bonding,

chemical reactions, stoichiometry, acids and bases, gas laws, and solutions. The laboratory introduces the techniques of experimental chemistry with examples from all areas of chemistry.

Hours: 72 Lecture. 54 Lab.

#### CHEM 130

##### General Chemistry I (C-ID: CHEM 110, CHEM 120S)

Units: 5

**Prerequisite:** CHEM 120

**Advisory:** ENGL 101, MATH 175

**Transfers to:** UC/CSU

This course is the first semester of a two-semester sequence designed for students intending to major in science and engineering. The lecture course covers classical and modern chemistry, with applications in stoichiometry and classical atomic theory of chemistry, periodic properties, gas laws, modern quantum theory of atomic and molecular structure and periodic properties, thermochemistry, liquids and solids, and solution chemistry. The laboratory introduces experimental chemistry with examples from all areas of chemistry.

Hours: 54 Lecture. 108 Lab.

#### CHEM 140

##### General Chemistry II (C-ID: CHEM 120S)

Units: 5

**Prerequisite:** CHEM 130

**Advisory:** ENGL 101, MATH 180

**Transfers to:** UC/CSU

CHEM 140 is a continuation of CHEM 130. Theory and techniques of elementary physical chemistry are stressed. Emphasis is placed on the dynamics of chemical change using thermodynamics and reaction kinetics as the major tools. A thorough treatment of equilibrium is given, with many examples of acid/base, buffer, solubility, and complex ions. Entropy and free energy, electrochemistry, coordination compounds and a brief introduction to organic chemistry and nuclear chemistry are presented.

Various analytical techniques used in modern chemistry are introduced.

Descriptive chemistry of representative metallic and nonmetallic elements is included. The laboratory introduces experimental chemistry with examples from areas of kinetics, equilibrium, acid/base and buffer preparation, differential titration, electrochemistry, and qualitative analysis. Modern instrumental methods are used in some exercises.

Hours: 54 Lecture. 108 Lab.

#### CHEM 230

##### Organic Chemistry I (C-ID: CHEM 150, CHEM 160S)

Units: 5

**Prerequisite:** CHEM 140

**Transfers to:** UC/CSU

This course, the first of a two-semester sequence, provides a rigorous introduction to the practical and theoretical aspects of organic

chemistry. Several topics will be explored in depth, including molecular structure and hybridization, applications of acid/base theory to organic compounds, stereochemistry, alkanes, alkenes, alkynes, dienes, substitution and elimination reactions, and spectroscopic methods of analysis (e.g., infrared (IR), ultraviolet/visible (UV/VIS), nuclear magnetic resonance (NMR)). Particular emphasis will be placed on thermodynamic and kinetic aspects of reactions and detailed examination of reaction mechanisms. Laboratory exercises are designed to provide students with a solid foundation in the essential techniques of organic chemistry, including the determination of melting points, thin-layer and column chromatography, extraction, distillation, and spectroscopic analysis of products. This course is appropriate for students majoring in chemistry, biological sciences, and chemical engineering, and satisfies the admissions requirements for medical, dental, veterinary, and other health-related graduate programs.

Hours: 54 Lecture. 108 Lab.

#### CHEM 231

##### Organic Chemistry II (C-ID: CHEM 160S)

Units: 5

**Prerequisite:** CHEM 230

**Transfers to:** UC/CSU

This course, the second of a two-semester sequence, provides a rigorous introduction to the practical and theoretical aspects of organic chemistry. The chemistry of aromatic and carbonyl-containing compounds is emphasized throughout the course of the semester. Bioorganic compounds are introduced. Particular emphasis is placed on thermodynamic and kinetic aspects of reactions, the detailed examination of reaction mechanisms, and the design of multi-step syntheses. Laboratory exercises require students to use techniques learned in the previous semester to carry out more complex reactions and multi-step synthesis. Additionally, students investigate the techniques of organic qualitative analysis. This course is appropriate for students majoring in chemistry, biological sciences, and chemical engineering, and satisfies the admissions requirements for medical, dental, veterinary, and other health-related graduate programs.

Hours: 54 Lecture. 108 Lab.

#### CHEM 299

##### Directed Study: Chemistry

Units: 1

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5

overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide. Hours: 54 Lab.

## CHINESE

### Division of Communications and Languages

**CHIN 101**  
**Chinese I**  
**Units: 4.5**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This introductory course focuses on Chinese language and culture. The course stresses oral and written proficiency through fundamental use of Chinese pronunciation and the Pinyin spelling system; students are also introduced to Chinese characters. Various facets of Chinese history, culture, and civilization are analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive, individualized oral-aural practice via interactive websites, audio CDs, video programs, and films in the RHC Language Laboratory, where work focuses on vocabulary, grammar, and cultural practices. This course is intended for students interested in learning to speak Chinese, as well as those seeking a degree in Chinese language. Hours: 72 Lecture. 27 Lab.

**CHIN 102**  
**Chinese II**  
**Units: 4.5**

**It is advised that students be able to engage in written composition at a college level and read college-level**

**texts.**

**Prerequisite:** CHIN 101 or completion of 2 years high school Chinese with a grade of "C" or better

**Transfers to:** UC/CSU

This course is a continuation of CHIN 101. The course stresses oral and written proficiency through fundamental use of Chinese pronunciation and the Pinyin spelling system, and students continue to further their knowledge of Chinese characters. Various facets of Chinese history, culture, and civilization are analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice via interactive websites, audio CDs, video programs, and films in the RHC Language Laboratory, where work focuses on vocabulary, grammar, and cultural practices. This course is intended for students interested in learning to speak Chinese, as well as those seeking a degree in Chinese language. Hours: 72 Lecture. 27 Lab.

## CHICANO STUDIES

### Division of Behavioral and Social Sciences

**CHST 101**

**Introduction to Chicana/o/x Studies**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This introductory course examines social, political, economic, and historical issues as they impact the Chicana/o/x experience in the U.S. Topics include identity, gender, language, race, sexuality, immigration, labor, poverty, and education. This course is designed to acquaint students with the interdisciplinary models and paradigms developed within the field of Chicana/o/x studies. Hours: 54 Lecture.

**CHST 146**

**The Mexican American in the History of the United States**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This interdisciplinary course provides a survey of Mexican/Mexican-American people in the context of U.S. history. The course begins with the U.S. declaration of war on Mexico in 1846 and goes on to examine Mexican-American struggles for integration, liberation, self-determination, and decolonization. This course provides a historical context to understand

contemporary issues that impact Chicana/o/x communities.

Hours: 54 Lecture.

**CHST 148**

**La Chicana: Mexican-American Women in Contemporary Society**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: CHST 148 or CHST 148H

This introductory course explores the intersectional identity formations of Chicana women in the United States. Course themes include an examination of the genesis of the term "Chicana"; the emergence of Chicana feminism; and the intersection of race, gender, class, ethnicity, and sexuality in relation to the formation and study of Chicana identities. This course is interdisciplinary, drawing on methodologies and paradigms from ethnic studies, gender and sexuality studies, queer studies, history, literature, sociology, and popular culture. Hours: 54 Lecture.

**CHST 148H**

**La Chicana: Mexican-American Women in Contemporary Society**  
**Honors**

**Units: 3**

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: CHST 148 or CHST 148H

This introductory course explores the intersectional identity formations of Chicana women in the United States. Course themes include an examination of the genesis of the term "Chicana"; the emergence of Chicana feminism; and the intersection of race, gender, class, ethnicity, and sexuality in relation to the formation and study of Chicana identities. This course is interdisciplinary, drawing on methodologies and paradigms from ethnic studies, gender and sexuality studies, queer studies, history, literature, sociology, and popular culture. This course is intended for students eligible for the Honors Program. Hours: 54 Lecture.

**CHST 150**

**Chicana/o/x Politics**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines U.S. history and political issues relevant to the Chicana/o/x and Latina/o/x community. The



course provides an overview of demographic changes in the U.S. and examines political activism and political leadership. Students interested in this course may include individuals with familial or personal connections to the Chicana/o/x (Mexican-American) community and/or those intending to work in environments with high concentrations of this population. Hours: 54 Lecture.

## COMPUTER INFORMATION TECHNOLOGY

### Division of Business

#### CIT 051

##### Keyboarding

Units: 1

**It is advised that students be able to read college-level texts.**

The course is designed to enable the student to master the alphanumeric keyboard on a microcomputer by touch and to gain a thorough knowledge of current keyboarding techniques. This course is recommended for all students to provide them with the skills necessary to use touch keyboarding to prepare reports and general course assignments.

Hours: 9 Lecture. 27 Lab.

#### CIT 060

##### Windows Operating System

Units: 3

**Advisory:** CIT 051

This course is a comprehensive course of the Microsoft Windows operating system and its graphical user interface. The student will learn: Graphical User Interface/Mouse, My Computer, File Management with Explorer, WordPad, Paint, and data sharing using the Clipboard. The Find program, object linking and embedding, printers and fonts will also be included. Networking capabilities of Windows will be used and disk maintenance tasks will be performed.

Hours: 45 Lecture. 27 Lab.

#### CIT 101

##### Introduction to Computer

**Information Technology (C-ID: BUS 140, ITIS 120)**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** CIT 051

**Transfers to:** UC/CSU

This course is an examination of information systems and their role in business. It will focus on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. It will apply these concepts and methods through hands-on projects developing

computer-based solutions to business problems.

Hours: 54 Lecture.

#### CIT 102

##### Introduction to Microsoft® Office

Units: 3

**It is advised that students be able to engage in written composition at a college level.**

**Advisory:** CIT 051

**Transfers to:** CSU

This course is intended as an introduction for students wanting to learn the latest version of the integrated program suite of Microsoft Office Professional. The student will be provided with the basics of each of the programs in the suite - Word, Excel, Access, PowerPoint, and Outlook as well as their Internet integration. In addition, an introduction to fundamental computer concepts will be presented including hardware and software basics, file management, computer networks and communications.

Hours: 45 Lecture. 27 Lab.

#### CIT 103

##### Microsoft® Word®

Units: 3

**Advisory:** CIT 101

**Transfers to:** CSU

This is a thorough introduction to the word processing application Microsoft® Word®. This course will provide instruction in the use of the latest version of word processing software for business applications. Students will learn the basic editing and formatting functions of the program. Document maintenance, formatting enhancements, and the creation and formatting of tables will also be presented. Additional topics include macros and styles, specialized tables, protected forms and shared documents. This course is intended for students desiring to complete the requirements for the Computer Information Technology Microcomputer Specialists Degree or professionals wanting to master Microsoft Word.

Hours: 45 Lecture. 27 Lab.

#### CIT 111

##### Introduction to Programming (C-ID: ITIS 130)

Units: 3

**Advisory:** CIT 101

**Transfers to:** UC/CSU

This course is for students who want to develop the problem-solving abilities required to work in the computer field. Programming concepts are discussed through a variety of techniques including hierarchy diagrams, flow-charting, data diagrams, and pseudocode. The course will also include information on integrated development environments (IDEs).

Hours: 54 Lecture.

#### CIT 114

##### Introduction to Cloud Computing with DevOps (C-ID: ITIS 120)

Units: 4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is an examination of information systems as it relates to developer operations (DevOps), cloud computing, and their role in business. It will focus on information systems, security, database management systems, networking, operating systems, cloud computing, project management strategies, version control, and programming methodologies. It will apply these concepts and methods through hands-on projects developing computer-based solutions to business problems.

Hours: 63 Lecture. 27 Lab.

#### CIT 117

##### Microsoft® Excel®

Units: 3

**Advisory:** CIT 101

**Transfers to:** CSU

This is a comprehensive spreadsheet application course which will provide instruction in the use of the latest version of spreadsheet software for business applications. Students will learn to create and format a workbook, work with formulas and functions, create charts, tables and PivotTables. Students will also learn advanced functions, and develop Excel applications. This course is intended for students desiring to complete the requirements for the Computer Information Technology/Office Technologies Degree or Certificate of Achievement, or professionals wanting comprehensive knowledge of Microsoft® Excel®

Hours: 45 Lecture. 27 Lab.

#### CIT 119

##### Microsoft® Access®

Units: 3

**Advisory:** CIT 101

**Transfers to:** CSU

This is a thorough microcomputer database applications course, which will provide instruction in the use of the latest version of database software for business applications. Students will learn to create and modify tables, build table relationships, add and edit records, create forms for data entry, produce simple queries and reports, advanced query functions, custom forms design for data entry, custom report writing, and sharing and integrating data with Web pages. This course is intended for students desiring to complete the requirements for the Computer Information Technology Degree or professionals wanting a thorough introduction to Microsoft® Access®.

Hours: 45 Lecture. 27 Lab.

#### CIT 125

##### Introduction to C++ Programming

Units: 4

**Advisory:** CIT 101, CIT 111

**Transfers to:** UC/CSU

This course is for students who want to complete the requirements for the Computer Information Technology degree, or professionals who want to continue developing their programming skills using Visual C++ programming language. The course covers the fundamentals of software development using the most popular language (C++). Topics covered include designing, writing the source code, compiling, linking, executing, debugging, data types, arithmetic/logical expressions, pointers, looping, branching, classes, objects, and static and dynamic memory allocation.  
Hours: 63 Lecture. 27 Lab.

**CIT 126**  
**Advanced C++ Programming**  
**Units: 4**

**Prerequisite:** CIT 125  
**Transfers to:** UC/CSU

This course is intended for students desiring to complete the requirements for the Computer Information Technology degree, or professionals who want to continue developing their programming skills using an object-oriented programming language. The course will review the fundamentals of software development and cover the advanced programming skills using the C++ language. Advanced topics include classes and data abstraction, operator overloading, inheritance, virtual function and polymorphism, stream input and output, and exception handling.  
Hours: 63 Lecture. 27 Lab.

**CIT 127**  
**Python Programming I (C-ID: COMP 122)**  
**Units: 3**

**Prerequisite:** CIT 111  
**Transfers to:** UC/CSU

This course is an introduction to the discipline of computer science, with a focus on the design and implementation of algorithms to solve simple problems using Python. Topics include fundamental programming constructs, problem-solving strategies, debugging techniques, declaration models, and an overview of procedural and object-oriented programming languages. Students will learn to design, implement, test, and debug algorithms using pseudocode and Python.  
Hours: 45 Lecture. 27 Lab.

**CIT 128**  
**Python Programming II (C-ID: COMP 132)**  
**Units: 3**

**Prerequisite:** CIT 127  
**Transfers to:** UC/CSU

This is a software engineering course focused on the application of software engineering techniques for the design and development of large programs. Topics include object oriented programming, data abstraction, data structures and their associated algorithms, and recursion. Students will

learn to design, implement, test, and debug programs using Python.  
Hours: 45 Lecture. 27 Lab.

**CIT 130**  
**Windows Configuration**  
**Units: 3**

**Advisory:** CIT 180  
**Transfers to:** CSU

This course is designed for students preparing to take the Windows client operating system certification exam. Students will learn to install, upgrade and migrate from previous to the current Windows client operating system and deploy Windows using system images and configure virtual hard disks. Students will also learn to configure hardware & applications, network connectivity, access to resources, mobile computing, backup and recovery, and monitoring and maintaining systems that run Windows.  
Hours: 45 Lecture. 27 Lab.

**CIT 131**  
**Windows Server Active Directory**  
**Units: 3**

**Advisory:** CIT 130  
**Transfers to:** CSU

This course is designed for students preparing to take the Windows Server Active Directory, Configuring certification exam. Students will learn to configure Domain Name System, Active Directory infrastructure, Active Directory Roles & Services, creating and maintaining Active Directory objects, maintaining the Active Directory environment, and configure Active Directory Certificate Services.  
Hours: 45 Lecture. 27 Lab.

**CIT 133**  
**Windows Server Applications Infrastructure**  
**Units: 3**

**Advisory:** CIT 130  
**Transfers to:** CSU

This course is designed for students preparing to take the Windows Server Applications Infrastructure certification exam. Students will learn to deploy servers, configure remote desktop services, configure web services infrastructure, and configure network application services.  
Hours: 45 Lecture. 27 Lab.

**CIT 135**  
**Introduction to Java Programming**  
**Units: 4**

**Advisory:** CIT 101, CIT 111  
**Transfers to:** UC/CSU

This course is intended for students who want to complete the requirements for the Computer Information Technology degree, or professionals who want an introduction to Java programming. The course will cover the fundamentals of software development using the most popular open source language (Java). Course topics include program design, algorithms, writing and testing source code, arithmetic/logic expressions, control structures, objects, and basic Java structures.

Hours: 63 Lecture. 27 Lab.

**CIT 136**  
**Advanced Java Programming**  
**Units: 4**

**Prerequisite:** CIT 135  
**Transfers to:** UC/CSU

This course is for students who want to complete the requirements for the Computer Information Technology degree, or professionals who want to continue developing their programming skills using Java. The course covers the basics of the software development and the advanced programming skills using the Java language. Topics include Java data syntax, data structure, applets, graphics, animation, inheritance, abstract Windows toolkit, exception handling, file input and output, and multithreading.  
Hours: 63 Lecture. 27 Lab.

**CIT 139**  
**Linux I**  
**Units: 3**

**Prerequisite:** CIT 101 or CIT 114  
**Transfers to:** CSU

This course provides a skills foundation for students pursuing a career as Linux system administrators. The course prepares students for the Red Hat System Administration I (RH124) certificate. Students must complete this course if they wish to pursue the Red Hat System Administration II (RH134) certificate.  
Hours: 45 Lecture. 27 Lab.

**CIT 140**  
**Linux II**  
**Units: 3**

**Prerequisite:** CIT 139  
**Transfers to:** CSU

This course provides skills that build on the skills learned in Linux I. It prepares students for the Red Hat System Administrator II (RH134) certificate. RH134 focuses on the key tasks needed to become a full time Linux administrator.  
Hours: 45 Lecture. 27 Lab.

**CIT 155**  
**Introduction to E-Commerce**  
**Units: 3**

**It is advised that students have a knowledge of elementary algebra concepts.**

**Advisory:** CIT 101  
**Transfers to:** CSU

This course provides a hands-on, problem-solving approach to learning both basic and more advanced aspects of doing business on the Internet. Students learn how to use electronic commerce effectively, including selling and marketing on the Internet, developing business-to-business online strategies, using online auctions, identifying the hardware and software required to support security for e-commerce, selecting electronic payment systems, and planning for e-commerce. Additionally, students learn how and why e-commerce is an

important part of our economy and society.

Hours: 54 Lecture.

### **CIT 160**

#### **Introduction to Operating Systems**

**Units:** 3

**Prerequisite:** CIT 101

**Transfers to:** CSU

This course provides an introduction to the operating systems used in modern business infrastructure, including Windows (desktop and server), Unix, Linux, and Mac OS X. Students will learn how these systems are used in the industry, desktop virtualization, networking basics, and information related to how to create mixed environments.

Hours: 45 Lecture. 27 Lab.

### **CIT 170**

#### **Server + (C-ID: ITIS 155)**

**Units:** 3

**Prerequisite:** CIT 101

**Transfers to:** CSU

This course will provide a student with the knowledge and skills required to build, maintain, troubleshoot and support server hardware and software technologies. The student will be able to identify environmental issues; understand and comply with disaster recovery and physical / software security procedures; become familiar with industry terminology and concepts; understand server roles / specializations and interaction within the overall computing environment. This course also prepares students for the current version of CompTIA's Server+ certification exam. Hours: 45 Lecture. 27 Lab.

### **CIT 171**

#### **Network + (C-ID: ITIS 150)**

**Units:** 3

**Prerequisite:** CIT 101 or CIT 114

**Transfers to:** CSU

This course provides an overview of the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of Internet protocol (IP) addressing and the fundamentals of ethernet, media, and operations concepts are introduced to provide a foundation for further study of computer networks. The Open Systems Interconnection (OSI) and Transmission Control Protocol (TCP) layered models are used to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. This course prepares students for the CompTIA Network+ certification exam. Hours: 45 Lecture. 27 Lab.

### **CIT 172**

#### **Database Essentials in Amazon Web Services (C-ID: ITIS 180)**

**Units:** 3

**Prerequisite:** CIT 101 or CIT 114

**Transfers to:** CSU

This course provides the students with an introduction to the core concepts in

data and information management in traditional and cloud systems. It is centered around the core skills of identifying organizational information requirements, modeling them using conceptual data modeling techniques, converting the conceptual data models into relational data models and verifying its structural characteristics with normalization techniques, and implementing and utilizing a relational database using an industrial-strength database management system in Amazon Web Services. The course will also include coverage of basic database administration tasks and key concepts of data quality and data security. In addition to developing database applications, the course helps the students understand how large-scale packaged systems are highly dependent on the use of Database Management Systems (DBMSs). Building on the transactional database understanding, the course provides an introduction to data and information management technologies that provide decision support capabilities under the broad business intelligence umbrella. Hours: 45 Lecture. 27 Lab.

### **CIT 173**

#### **Compute Engines in Amazon Web Services**

**Units:** 1.5

**Prerequisite:** CIT 114

**Transfers to:** CSU

This course addresses how cloud computing systems are built using a common set of core technologies, algorithms, and design principles centered around distributed systems. Students will use the Amazon Web Services (AWS) Management Console to provision, load-balance and scale their applications using the Elastic Compute Cloud (EC2) and the AWS Elastic Beanstalk. The course discusses, from a developer perspective, the most important reasons for using AWS and examines the underlying design principles of scalable cloud applications. Hours: 22.5 Lecture. 13.5 Lab.

### **CIT 174**

#### **Security in Amazon Web Services**

**Units:** 1.5

**Prerequisite:** CIT 114

**Transfers to:** CSU

This course focuses on protecting the confidentiality, integrity and availability of computing systems and data. Students learn how Amazon Web Service (AWS) uses redundant and layered controls, continuous validation and testing, and a substantial amount of automation to ensure the underlying infrastructure is continuously monitored and protected. Students examine the AWS Shared Responsibility Model and access the AWS Management Console to learn more

about security tools and features provided by the AWS platform. Hours: 22.5 Lecture. 13.5 Lab.

### **CIT 175**

#### **DevOps Engineering in Amazon Web Services**

**Units:** 3

**Prerequisite:** CIT 173 and CIT 174

**Advisory:** CIT 127

**Transfers to:** CSU

In this course, students explore how development processes can be automated and integrated with operations so changes to software can be deployed to cloud computing environments according to DevOps (developer and operations) best practices. Students will use Amazon Web Services (AWS) products to provision infrastructure then deploy code using a managed pipeline. Operations topics include initializing infrastructure as code, applying security, monitoring service health, and troubleshooting. Development topics include secure deployment practices with continuous integration and continuous delivery as it relates to the software development life cycle. Students will build their skills by participating in in-class interactive lectures, hands-on lab activities, and working on comprehensive assignments. Hours: 45 Lecture. 27 Lab.

### **CIT 180**

#### **PC Maintenance - A+ Certification (C-ID: ITIS 110)**

**Units:** 4

**Prerequisite:** CIT 101

**Transfers to:** CSU

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level information and communication technology (ICT) professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Preparation for the CompTIA A+ certification exams. Hours: 54 Lecture. 54 Lab.

### **CIT 192**

#### **Security + (C-ID: ITIS 160)**

**Units:** 3

**Prerequisite:** CIT 171 or CIT 210

**Advisory:** CIT 180

**Transfers to:** CSU

This course is an introduction to information technology security and risk management at the organizational level. The course addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational cybersecurity and risk management. This course prepares students for the CompTIA Security+ certification exam, and is intended to help students meet educational requirements to qualify for entry-level



information technology jobs with cybersecurity skills.  
Hours: 45 Lecture. 27 Lab.

### **CIT 200**

#### **Systems Analysis and Design (C-ID: ITIS 140)**

**Units:** 3

**Prerequisite:** CIT 101 or CIT 114

**Transfers to:** CSU

The course presents a systematic methodology for analyzing a business problem or opportunity, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial-off-the-shelf packages.  
Hours: 54 Lecture.

### **CIT 210**

#### **Cisco® Networking I (C-ID: ITIS 150)**

**Units:** 3

**Prerequisite:** CIT 101

**Advisory:** CIT 180

**Transfers to:** CSU

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. This course is also the first of two courses designed to prepare students for the ICND 1 examination to achieve CCENT (Cisco® Certified Entry Networking Technician) Certification and helps in preparation for the CompTIA Network+ certification exam.  
Hours: 45 Lecture. 27 Lab.

### **CIT 214**

#### **Cisco Networking II (C-ID: ITIS 151)**

**Units:** 3

**Prerequisite:** CIT 210

**Advisory:** CIT 180

**Transfers to:** CSU

This second course in the Cisco Certified Network Associate (CCNA) curriculum series focuses on switching technologies and router operations that support small-to-medium business networks, and includes wireless local area networks (WLAN) and security concepts. In addition to learning key switching and routing concepts, students perform basic network configuration and troubleshooting, identify and mitigate LAN security

threats, and configure and secure a basic WLAN.

Hours: 45 Lecture. 27 Lab.

### **CIT 215**

#### **Cisco Networking III**

**Units:** 3

**Prerequisite:** CIT 214

**Transfers to:** CSU

This third course in the Cisco Certified Network Associate (CCNA) curriculum series focuses on the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. The course covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access; as well as the introduction of software-defined networking, virtualization, and automation concepts that support the digitalization of networks. Students acquire the skills needed to configure and troubleshoot enterprise networks, and learn to identify and protect against cybersecurity threats while being introduced to network management tools and key concepts of software-defined networking (e.g., controller-based architectures and how application programming interfaces (APIs) enable network automation). By the end of the CCNA course series, students gain practical, hands-on experience preparing them for the CCNA certification exam and career-ready skills for associate-level roles in the information and communication technologies (ICT) industry.  
Hours: 45 Lecture. 27 Lab.

### **CIT 221**

#### **Ethical Hacking (C-ID: ITIS 164)**

**Units:** 3

**Prerequisite:** CIT 171 or CIT 210 and CIT 192

**Transfers to:** CSU

This course introduces the network security specialist to the various methodologies for attacking a network. Students will be introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network within the context of properly securing a network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students will receive course content information through a variety of methods: lecture and demonstration of hacking tools will be used in addition to a virtual environment. Students will experience a hands-on practical approach to penetration testing measures and ethical hacking.  
Hours: 45 Lecture. 27 Lab.

### **CIT 290**

#### **Cooperative Work Experience / Internship for Computer Information Technology related fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under supervision of a college instructor and is facilitated by the use of learning objectives. Students in a skilled or professional-level assignment in their area of vocational interest and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of computer information technology and who have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 60-300 Lab.

## **CIVIL DESIGN**

### **Division of Career and Technical Education**

#### **CIV 101**

##### **Introduction to Technical Drawing & Graphics**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This basic course in technical drawing and graphics is for students with no previous drafting skills or training. The course is designed for students who want to pursue training in fields and careers related to architecture, civil design, and engineering design drafting. Practical application with the tools, techniques, standards, and practices used in the industries that need technical drawings and graphics is a feature of the course.  
Hours: 36 Lecture. 54 Lab.

#### **CIV 140**

##### **Civil Engineering & Construction Fundamentals**

**Units:** 4

**Advisory:** ENGT 101 or two years of High School Drafting. It is also advised that students have a knowledge of elementary algebra and geometry concepts.

**Transfers to:** CSU

This course provides an overview of various civil engineering subdisciplines, including common tasks required of civil engineers and their support staff for the design and construction of projects. Students complete basic level

engineering calculations and use hand drafting techniques or computer aided design and drafting (CADD) software to complete projects relating to subdivision development, roadway planning and layout, structural design and detailing, site grading, project scheduling, wastewater management, and similar engineering tasks. Students are also introduced to future trends in construction technology, and explore building information modeling (BIM) and virtual design and construction (VDC) technologies and their impact. Hours: 54 Lecture. 54 Lab.

**CIV 142**  
**Introduction to Land Surveying and GPS**

**Units:** 4

**Advisory:** CIT 102 - It is also advised that students have a knowledge of elementary algebra and geometry concepts

**Transfers to:** CSU

This course is for students interested in the career fields of civil design drafting, surveying/mapping, and civil engineering. It covers the principles and practices of land surveying, including measuring distance, direction, elevation and position; topographic mapping; and the use and care of surveying equipment. The fundamentals of global positioning systems (GPS) and their applications in land surveying will also be introduced. This course will also be beneficial for practitioners in the construction industry who need to acquire property data.

Hours: 54 Lecture. 54 Lab.

**CIV 143**  
**Applications to Surveying and GPS**

**Units:** 4

**Prerequisite:** CIV 142

**Transfers to:** CSU

This course is for students who have a basic understanding of surveying and are interested in pursuing a career in the field of land surveying. The course presents advanced applications that will cover the theory and practice of plane surveying, including principles of position, horizontal and vertical curves, construction staking, alignments, field procedures, the U.S. Public Land Survey System, boundary surveying, and the use and care of surveying equipment.

Hours: 54 Lecture. 54 Lab.

**CIV 210**  
**Concrete Technology and Testing**

**Units:** 2

**Advisory:** CIV 140 or industry experience

**Transfers to:** CSU

This course is an introduction to the use of concrete as a common construction material. The course is intended for students who intend to pursue careers in construction and/or wish to progress into construction management as a sub-discipline of civil engineering. Topics include the components, physical properties, mix design, quality control, and placing and testing of

concrete. The course includes classroom lectures and assignments as well as lab projects with direct experience in working with and testing concrete.

Hours: 18 Lecture. 54 Lab.

**CIV 241**  
**Civil Engineering Drafting and Design**

**Units:** 3

**Prerequisite:** CIV 140, ENGT 150 or ENGT 170

**Transfers to:** CSU

This intermediate-level course is for students interested in the career field of civil design drafting and civil engineering. In the course the practice and preparation of drawings pertaining to the civil engineering field will be expanded to include the development of maps and drawings used for site development, grading and drainage, and road alignment. Preparing construction documents for buildings and related constructs will also be covered. Other topics include project notes, specifications, and details for civil engineering drawings. Students will use both hand drafting and computer-aided design and drafting (CADD) to complete projects related to these topics.

Hours: 36 Lecture. 54 Lab.

**CIV 245**  
**Civil Engineering Design and Modeling**

**Units:** 3

**Prerequisite:** CIV 140, ENGT 150 or ENGT 170

**Prerequisite/Corequisite:** CIV 241

**Transfers to:** CSU

This advanced-level course is for students interested in the career fields of civil engineering design drafting and civil engineering, and takes up the design, analysis, and preparation of drawings used in the civil engineering field. Students will use civil engineering software such as Bentley's OpenRoads or Autodesk's Civil 3D to complete projects relating to transportation and site development, including grading, drainage, and road alignment plans and details. Specific areas of focus include the use of software for terrain modeling and editing, surfaces, profiles, cross-sections, earthwork computations, and site planning design.

Hours: 36 Lecture. 54 Lab.

**CIV 290**  
**Cooperative Work Experience / Internship for Civil Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or

professional-level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is in civil design- or drafting-related fields and who have completed or enrolled in the appropriate courses. Instructor approval is needed to enroll in the course. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 57-297 Lab.

**CIV 299**  
**Directed Study in Civil Design Technology**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 6-18 Lecture. 48-144 Lab.

## CORRECTIONS

### Division of Public Safety

**CORR 060**  
**Corrections Basic Academy**  
**Units:** 23

**Enrollment is restricted to sworn cadets employed by California Department of Corrections and Rehabilitation**

This course is designed for the California Department of Corrections and Rehabilitation (CDCR) cadet who has successfully passed and completed the employment requirements established for a position as a state correctional officer. This course covers relevant topics required by the Commission of Correctional Peace Officer Standards and Training (CPOST) per California Penal Code Sections 13600 through 13603.  
Hours: 364 Lecture. 156 Lab.

**CORR 101**

**Introduction to Corrections (C-ID: AJ 200)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides students with an overview of the history and trends of adult and juvenile corrections. It focuses on probation, parole, legal issues, specific laws and the general operation of correctional institutions. The relationship between corrections and other components of the justice system is also examined. This course has been identified by the Correctional Peace Officer Standards and Training (CPOST) Board of the Peace Officers Association as fulfilling the educational requirements of the CPOST Certificate for newly-hired officers after July 1, 1995 by the California Department of Corrections and Rehabilitation (CDCR) and California Youth Authority (CYA).  
Hours: 54 Lecture.

**CORR 104**

**Control and Supervision in Corrections**

**Units:** 3

**Advisory:** CORR 101

**Transfers to:** CSU

This course provides students with an overview of supervision of inmates in local, state, and federal correctional institutions. The issues of control in a continuum form of institutional daily living through crisis situations are introduced and discussed. The course emphasizes the role played by the offender and the correctional worker. Topics include inmate subculture, violence and the effects of crowding on inmates and staff, and coping techniques for correctional officers in a hostile prison environment. The causes and effects of abusive tactics are also discussed. This course has been identified by the Correctional Peace Officer Standards and Training (CPOST) Board of the California Department of Corrections and Rehabilitation (CDCR), California Youth Authority (CYA), and California Correctional Peace Officers Association as fulfilling the educational requirements of the CPOST Certificate

for newly-hired officers after July 1, 1995 by CDCR and CYA.

Hours: 54 Lecture.

**CORR 106**

**Legal Aspects of Corrections**

**Units:** 3

**Advisory:** CORR 101

**Transfers to:** CSU

This course provides students with an awareness of the historical framework, concepts, and precedents that guide correctional practice. Course material broadens students' perspectives of the corrections environment, civil rights of prisoners, and responsibilities and liabilities of corrections officials. The course has been identified by the Correctional Peace Officer Standards and Training (CPOST) Board of the California Department of Corrections and Rehabilitation (CDCR), California Youth Authority (CYA), and California Correctional Peace Officers Association as fulfilling the educational requirements of the CPOST Certificate for newly hired officers after July 1, 1995 by CDC and CYA.  
Hours: 54 Lecture.

**CORR 134**

**Introduction to Interviewing and Counseling Skills for Correctional Officers**

**Units:** 3

**Advisory:** CORR 101

**Transfers to:** CSU

This course provides students with an introduction to and overview of the interviewing techniques and counseling skills employed by correctional officers. An overview of the interviewing and counseling techniques used by entry-level practitioners in a correctional setting is provided. Emphasis is placed on the development of positive relationships between the inmate client and support personnel.  
Hours: 54 Lecture.

**CORR 190**

**Public Safety Communications (formerly CORR 290)**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course is designed to provide California peace officers or other interested students with an in-depth understanding of public safety communication in the correctional field. Topics include techniques of effectively communicating information in a clear and logical manner for public safety reports. Students gain practical experience in interviewing, note taking, report writing, and testifying.  
Hours: 54 Lecture.

**CORR 208**

**Leadership in Corrections**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides students with an overview of the skills needed to be an effective leader in a correctional setting. Topics addressed include the unique challenges faced by executives managing in prison settings, approaches to ensuring the creation and maintenance of a safe prison environment, and techniques for personnel development.  
Hours: 54 Lecture.

**CORR 209**

**Case Load Management**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course introduces students to effective caseload management in a correctional setting. Topics include the laws, policies, and bargaining units that govern caseload management. Specialized supervision issues, such as offenders with psychological problems and second strike offenders, are also addressed.  
Hours: 54 Lecture.

**CORR 210**

**Supervision in Public Safety**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides students with an overview of the characteristics of an effective supervisor in a correctional setting. Topics include basic supervisory responsibilities, the importance of effective interpersonal communications, and managing personnel complaints in a prison setting.  
Hours: 54 Lecture.

**CORR 235**

**Conflict Resolution for the Correctional Officer**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides students with an understanding of the types of conflict situations that may be encountered while working in a correctional facility. The following topics may be discussed as they pertain to the correctional experience: anxiety, fear, frustration, hostility, aggression, motivation and manipulation roles, racial and cultural segregation, crowd and mob interaction, alcohol, drugs, sexual problems, character, neurotic and psychotic disorders, youthful offenders, stress of incarceration, and brain disorders.  
Hours: 54 Lecture.

**CORR 264**

**Inmate Discipline in Corrections**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course provides students with an overview of the correctional process of inmate discipline. Topics covered include due process, disciplinary process, disciplinary reports, findings, and disposition. The curriculum covered is recommended by the California Commission on Peace Officer Standards and Training (POST).  
Hours: 54 Lecture.

#### **CORR 265**

##### **Supervision of Sex Offenders**

**Units:** 3

**Advisory:** AJ 101

**Transfers to:** CSU

This course is designed to teach California peace officers or other interested students about the correctional process of supervising inmates who have been convicted of sex offenses. Topics include human sexuality and dysfunctions, theories of sexual offense, offender typologies, and supervision techniques. The curriculum follows recommendations from the California Commission on Peace Officer Standards and Training (POST) and the California Commission on Correctional Peace Officer Standards and Training (CPOST).  
Hours: 54 Lecture.

## **COUNSELING**

### **Division of Counseling and Student Development**

#### **COUN 100**

##### **Introduction to College Survival**

**Units:** 1.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is intended for special populations (e.g., student athletes) and special programs (e.g., the Summer Scholars Transfer Institute). The course helps students develop knowledge and skills to move successfully through the community college system and transition and acculturate into a four-year institution. Students learn and apply information about education terminology, community college transfer requirements, and the skills necessary for completing a bachelor's degree or higher. Students also learn about academic, social, and cultural integration for retention in higher education through knowledge of college requirements, policies and procedures, campus support services, and self-management.  
Hours: 27 Lecture.

#### **COUN 101**

##### **College and Life Success**

**Units:** 3

**It is advised that students be able to engage in written composition at a**

**college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit.

The UC will grant a maximum of 3 units credit for all COUN/EDEV courses.

This course provides an exploration of cognitive, psychological, social, and physical factors influencing success in college and in life. Topics include personal responsibility, critical thinking, motivation, self-efficacy, personal awareness, lifelong learning, self-management, health and wellness, interpersonal communication in a diverse world, and introductory career and educational planning. Students learn about the purpose, demands, and requirements of higher education, as well as student support services, at both Rio Hondo College and four-year institutions.  
Hours: 54 Lecture.

#### **COUN 102**

##### **Introduction to the Transfer Process**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 3 units for all COUN/EDEV courses.

This course is designed to develop and enhance decision-making strategies for students interested in transferring. Students will develop critical thinking skills by identifying, comparing, and analyzing the differences in university entrance and major requirements as related to their educational and career goals. Students will examine the requirements of the universities and complete a comprehensive educational plan. On-site research/field study at universities required.  
Hours: 36 Lecture.

#### **COUN 103**

##### **Introduction to Student Leadership Development**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 3 units credit for all COUN/EDEV courses.

This course focuses on building students' leadership potential. It examines foundational leadership theories and their application in student government and organizations. Students develop their own personal leadership philosophy that includes an understanding of self, other, and community. Topics covered include leadership theories, characteristics and competencies, ethics, diversity in leadership, decision making, program development, parliamentary procedure, and team building.  
Hours: 54 Lecture.

#### **COUN 104**

#### **Stress and Anxiety Management for Emotional Well-Being**

**Units:** 3

**It is advised that students be able to engage in written composition at the college level.**

**Transfers to:** CSU

This course is designed to increase students' awareness of the effects of stress and anxiety on academic performance and daily life. Topics include the impact of stress on behavioral, cognitive, physical, and social-emotional well-being. Emphasis is placed on understanding effective and ineffective responses to stress and anxiety, planning a personal stress and anxiety management program, and having students explore and develop a variety of practical coping skills and management techniques.  
Hours: 54 Lecture.

#### **COUN 105**

##### **Orientation and Education Planning**

**Units:** 0.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for first-time college students as well as students who have not yet developed an individual education plan. Students will be oriented to Rio Hondo College policies and procedures, learn about certificate/degree options within the higher education system, and the graduation/transfer requirements within these systems. The course will culminate in the development of an individual education plan based on each student's specific academic goal. This course is offered on a pass/no pass basis.  
Hours: 9 Lecture.

#### **COUN 151**

##### **Career Exploration and Life Planning (Same as EDEV 151)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 3 units credit for all COUN/EDEV courses.

This course will examine student, career, and self-development theories to empower students to make effective decisions throughout their lifespan by engaging in the process of career and life planning from a psychological, sociological, and physiological perspective. Students will compare and contrast human development and career theories, decision-making processes, and factors that contribute to college success, life skills, adult workplace competencies, values, interests, abilities, and personality. Labor market trends in a global economy and successful job search and workplace behaviors will also be examined.



Hours: 54 Lecture.

**COUN 290**  
**Cooperative Work Experience/  
Internship for Student Services  
Related Fields**

**Units:** 1-4

**Advisory:** It is advised that students are able to engage in written composition at the college level and read college-level texts.

**Transfers to:** CSU

This course supports and reinforces on-the-job training in the student services field under the supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in the area of student services and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of student services and have completed or enrolled in the appropriate coursework. Contact the Cooperative Work Experience Education (CWEE) Office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 60-300 Lab.

**COUN 299**

**Directed Study in Counseling**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take Directed Study courses for a maximum of three (3) units within a discipline, and may not

accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## COMPUTER SCIENCE

### Division of Business

**CS 142**

**Computer Architecture and  
Organization (C-ID: COMP 142)**

**Units:** 3

**Prerequisite:** CIT 127

**Transfers to:** UC/CSU

The organization and behavior of real computer systems is studied, as well as the internal representation of simple data types and structures. Numerical computation is examined, noting the various data representation errors and potential procedural errors.

Hours: 54 Lecture.

**CS 152**

**Discrete Structures (C-ID: COMP 152)**

**Units:** 3

**Prerequisite:** CIT 127

**Transfers to:** UC/CSU

This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: Functions, Relations and Sets; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability.

Hours: 54 Lecture.

## COOPERATIVE WORK EXPERIENCE-GENERAL

### Division of Career and Technical Education

**CWEG 290**

**Cooperative Work Experience  
Education - General**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in an actual work environment under the supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a professional environment and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment.

Student Paid Internship: 1 unit/75 hours; 2 units/150 hours; 3 units/225 hours

Hours: 3 Lecture. 75-225 Lab.

## DANCE

### Division of Kinesiology, Dance, and Athletics

**Dance activity courses may be used in place of Kinesiology (formerly P.E.) activity courses to fulfill degree requirements.**

**DANC 114**

**Conditioning & Alignment for the  
Dancer**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed to provide the physical training and preparation for students interested in dance, yoga, Pilates, and athletics, and is suitable for individuals seeking to move with greater efficiency and less pain in everyday activities. Students learn how to move safely and effectively while developing strength, flexibility, proper alignment, agility, balance, and coordination. Coursework is designed for those who want to work at a more deliberate pace and in a non-competitive atmosphere, or who are recovering from prior injury.

Hours: 54 Lab.

**DANC 142**

**Dance Improvisation I**

**Units:** 2

**Advisory:** DANC 151

**Transfers to:** CSU

This dance studio course explores the theory and practice of dance improvisation in solo and group form. Utilizing techniques of improvisation across cultural traditions in dance, students experiment with sensory stimuli, modes of self-expression, composing in the moment, music visualization, and contact improvisation for performance. The course explores the practical use of improvisation in expressing imagery, developing choreographic concepts, and enhancing performance. Although the course supports dance majors and those seeking careers in dance and choreography, students of all abilities and backgrounds are welcome. No formal dance experience is required.

Hours: 18 Lecture. 54 Lab.

**DANC 150**

**Introduction to World Dance**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units for PE activity courses.

This course offers dance and non-dance students alike an opportunity to study cultural diversity through the activity of dance. Students learn how to analyze and perform basic movement patterns as they compare and contrast the social conventions, religious traditions, and historic contexts represented in the dance practices from different parts of the world performed in the United States today.

Hours: 54 Lab.

**DANC 151**  
**Modern Dance I**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This studio course offers beginning modern dancers an introduction to the fundamental principles of modern dance. The course emphasizes an awareness of breath and gravity, skeletal alignment, and core strength; and investigates kinesthetic and spatial awareness. Modern dance technique, improvisational exercises, and choreographic phrases provide physical, mental, and creative exploration for beginner students, students preparing for transfer, and students seeking careers in dance. This course is a requirement for the Associate of Arts Degree in Dance and the Certificate of Achievement in Dance. The course may be taken once and repeated three times for credit.

Hours: 54 Lab.

**DANC 152**  
**Dance Rehearsal and Performance**  
**Units: 3**

**Corequisite:** DANC 180

**Advisory:** DANC 151

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This introductory course provides experience and laboratory exploration in all aspects of dance rehearsal performance for beginner level students. Students have the opportunity to perform in an evening-length dance concert, work with faculty choreographers and guest artists, and participate as a member of a touring dance ensemble. Students contribute as dancers and rehearsal assistants under the supervision and guidance of faculty choreographers. Productions will be presented for public performance on and off campus.

Hours: 18 Lecture. 108 Lab.

**DANC 153**  
**Ballet I**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This introductory course is designed for students who seek technical skill in classical ballet. The course will focus on functional body alignment and placement, traditional steps and combinations, musicality, ballet terminology, and the development of strength and flexibility. Students also gain knowledge of classical and contemporary ballet history. This course may be taken once and repeated three times for credit.

Hours: 54 Lab.

**DANC 154**  
**Jazz Dance I**  
**Units: 1**

**Advisory:** ENGL 035 or

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units for PE activity courses.

This course is designed to introduce beginning students to the fundamental physical skills, polyrhythms, terminology, and historical context that form the basis of jazz dance technique. Highly visible on stage and screen, jazz dance is an eclectic and versatile contemporary art form with deep roots in African-American music and dance. A variety of jazz dance styles are introduced, and may include tap, musical theater, contemporary lyrical, pop, funk, hip-hop, Lindy Hop, and other African-American, Latin, Cuban, and Afro-Caribbean social dances that form the basis of this dance genre in the United States.

Hours: 54 Lab.

**DANC 157**  
**Hip-Hop Dance**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

In this course, students learn various forms of beginning hip-hop dance, including hip-hop funk, with an emphasis on body isolations, syncopations, and rhythms. The course explores the use of space, energy, rhythm, movement dynamics, and improvisation while emphasizing body control, alignment, balance, and use of weight changes. A basic history of hip-hop culture and music is discussed. The course fulfills an elective for the Associate of Art Degree in Dance, and is appropriate for students seeking careers in dance, looking to expand their dance skills, or wanting a dance-based aerobic workout.

Hours: 54 Lab.

**DANC 159**  
**Choreography I**  
**Units: 3**

**Advisory:** DANC 151

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units for PE activity courses.

This introductory course focuses on the art and craft of dance composition. Through lecture and activity, students learn how to incorporate the elements of dance in order to create meaningful dance works. Basic elements of choreography—including form, design, motivation, phrasing, gesture, rhythm, dynamics, musical accompaniment, and production basics—are explored through improvisational exercises and experimentation. Additionally, students learn to analyze dance critically through Laban movement analysis (LMA). The class culminates in the presentation of student choreography.

Hours: 36 Lecture. 54 Lab.

**DANC 162**  
**Dance Production**  
**Units: 3**

**Corequisite:** DANC 180

**Advisory:** DANC 151, DANC 159, DANC 251

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This introductory course focuses on the technical aspects of dance production and is designed for beginner-level dance students. Topics of exploration include basic staging, costume design, set design, make-up, lighting, sound production, and publicity. Productions are presented for public performance on and/or off campus.

Hours: 18 Lecture. 108 Lab.

**DANC 167**  
**Latin Dance for Fitness**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

Latin Dance for Fitness combines dance, Latin and Funk rhythms, and aerobic elements to provide a fun, upbeat, cardiovascular workout. Students will constantly move to various genres of Latin music, utilizing various tempos. Salsa, Cha-Cha, Tango, Mambo, Latin Jazz, and Hip-Hop rhythms will be incorporated. Students will build stamina, while increasing cardiovascular fitness. This course is designed to help students develop aerobic capacity, coordination, balance, rhythmic awareness, and flexibility. This class will also include exercises to build abdominal strength, lower body strength, and upper body strength. Classes may incorporate sections with small handheld weights, exercise bands, and/or other fitness props to further develop strength and endurance. Students will build a foundation for a personalized exercise and fitness

program that can be continued after the course has ended.  
Hours: 54 Lab.

**DANC 172**  
**Dance Repertory**

**Units:** 3

**Corequisite:** DANC 180

**Advisory:** DANC 151

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units for PE activity courses.

This course provides dance students the opportunity to rehearse and perform choreographic works based on existing dance repertoire created by well-known and established choreographers, faculty, and/or guest artists. Students will learn how to analyze movement using basic elements of Laban Movement Analysis in preparation for stage. They will also experience different methods of reconstructing existing repertoire and gain knowledge about the historical significance of the repertoire explored. Productions will be presented for public performance either on and/or off campus.

Hours: 18 Lecture. 108 Lab.

**DANC 179**  
**Dance History**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: DANC 179 or DANC 179H

This survey course investigates the forces which and figures who have shaped dance through history. Through readings, films, research, and class discussions, students study dance forms from ancient to contemporary times, paying particular attention to Western concert dance. Comparisons of various dance techniques, theories, and personalities are conducted through dance movement analysis. This course is designed for students seeking to broaden their understanding of dance while fulfilling their general education arts requirement, and for dance majors pursuing an Associate of Arts Degree in Dance or Certificate of Achievement in Dance.

Hours: 54 Lecture.

**DANC 179H**  
**Dance History Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: DANC 179 or DANC 179H

This survey course investigates the forces which and figures who have shaped dance through history. Through readings, films, research, and class discussions, students study dance forms

from ancient to contemporary times, paying particular attention to Western concert dance. Comparisons of various dance techniques, theories, and personalities are conducted through dance movement analysis. This course is designed for students seeking to broaden their understanding of dance while fulfilling their general education arts requirement, and for dance majors pursuing an Associate of Arts Degree in Dance or Certificate of Achievement in Dance. The course is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

**DANC 180**  
**Performance**

**Units:** 1

**Corequisite:** DANC 152 or DANC 162 or DANC 172 or DANC 182

**Advisory:** DANC 151, DANC 159, DANC 251

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit PE activity courses.

This course provides dance students the opportunity to participate in dance productions. Productions will be presented for public performance either on or off campus. Students will learn how to adjust a performance for presentation on a stage. Pre-performance and post-performance responsibilities will be outlined. In addition, students will be exposed to basic stage direction and techniques for overcoming stage fright. This course may be repeated for a maximum of 4 units in different semesters.

Hours: 54 Lab.

**DANC 182**  
**Dance Ensemble**

**Units:** 3

**Corequisite:** DANC 180

**Advisory:** DANC 151, DANC 159

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course provides an opportunity for dance students to develop and practice dance ensemble skills necessary to rehearse for and produce a professional dance performance. Modes of collaboration, basic ensemble skills used in the field of dance, rehearsal techniques, and the process of rehearsing and producing collaboratively are covered. Productions are presented for public performance on and/or off campus.

Hours: 18 Lecture. 108 Lab.

**DANC 199**  
**Dance Appreciation**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: DANC 199 or DANC 199H

This survey course is a multicultural exploration of one of the world's oldest and most universal art forms. Dance is analyzed in terms of body, effort, space, and shape; and examined to determine cultural, social, and political influences. In addition, the history of dance techniques and dance genres are investigated through lecture, film, and performance. This course is designed for students seeking to broaden their understanding of dance while fulfilling their general education arts requirement, and for dance majors pursuing an Associate of Arts Degree in Dance or Certificate of Achievement in Dance.

Hours: 54 Lecture.

**DANC 199H**  
**Dance Appreciation Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: DANC 199 or DANC 199H

This survey course is a multicultural exploration of one of the world's oldest and most universal art forms. Dance is analyzed in terms of body, effort, space, and shape; and examined to determine cultural, social, and political influences. In addition, the history of dance techniques and dance genres are investigated through lecture, film, and performance. This course is designed for students seeking to broaden their understanding of dance while fulfilling their general education arts requirement, and for dance majors pursuing an Associate of Arts Degree in Dance or Certificate of Achievement in Dance. The course is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

**DANC 251**  
**Modern Dance II**

**Units:** 1

**Prerequisite:** DANC 151

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This studio course offers intermediate modern dancers an opportunity to deepen and strengthen fundamental skills acquired in Modern Dance I. While continuing to develop proper alignment and modern dance technique, the intermediate student learns to perform combinations while shifting spatial orientation and integrating improvisation as required in auditions. Learning to create movement phrases, students develop a sense of artistry and dynamic phrasing necessary for performing. Furthering their understanding of and ability to identify the underlying movement principles of modern dance, students hone their technical skills in preparation for transfer or careers in dance. This course is a requirement for



the Associate of Arts Degree in Dance and Certificate of Achievement in Dance. This course may be taken once and repeated three times for credit. Hours: 54 Lab.

### **DANC 253**

#### **Ballet II**

**Units:** 1

**Prerequisite:** DANC 153

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses. This intermediate-level course is designed for students who want to further develop technical and performance skills acquired in Ballet I. The class includes more advanced technique work at the barre, across the floor, and in-center floor combinations. Complex adagio and allegro dance sequences are also introduced. Students have the opportunity to perform in an informal showing or concert setting. This course may be taken once and repeated three times for credit.

Hours: 54 Lab.

### **DANC 254**

#### **Jazz Dance II**

**Units:** 1

**Prerequisite:** DANC 154

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses. This intermediate-level course is designed for students who wish to further develop the technical and performance skills acquired in Jazz Dance I. The social histories and cultural contexts of jazz dance are emphasized through lectures, readings, and observations of professional dance concerts, musical theater, and contemporary dance in the film, television, and music video industries. Students also have the opportunity to perform in an informal showing or concert setting.

Hours: 54 Lab.

### **DANC 257**

#### **Hip-Hop Dance II**

**Units:** 1

**Prerequisite:** DANC 157

**Transfers to:** CSU

In this course, students learn various forms of intermediate hip-hop dance, including pop and lock, hip-hop funk, syncopations, and rhythms. The class explores the use of space, energy, rhythm, and improvisation while emphasizing body control, alignment, balance, and use of weight changes. The history of hip-hop culture is discussed. The course is appropriate for students seeking careers in dance, looking to expand their dance skills, and/or wanting a dance-based aerobic workout. This course may be taken once and repeated 3 times for credit. Hours: 54 Lab.

## **ECONOMICS**

### **Division of Behavioral and Social Sciences**

#### **ECON 101**

**Principles of Macroeconomics (C-ID: ECON 202)**

**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an elementary algebra course. It is also advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ECON 101 or ECON 101H

This introductory course has students learn to analyze and describe the performance and policies of national economic systems, with particular emphasis on the U.S. economy. The course is intended for economics or business majors and also satisfies General Education (GE) requirements. Topics include production possibilities and tradeoffs; comparative economic systems; the functions of government; national income and employment; business cycles; money and banking; monetary and fiscal policy; comparative advantage and trade policy; economic growth and stability; and income distribution and poverty.

Hours: 54 Lecture.

#### **ECON 101H**

**Principles of Macroeconomics Honors (C-ID: ECON 202)**

**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an intermediate algebra course. It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ECON 101 or ECON 101H

This introductory course has students learn to analyze and describe the performance and policies of national economic systems, with particular emphasis on the U.S. economy. The course is intended for economics or business majors and also satisfies General Education (GE) requirements. Topics include production possibilities and tradeoffs; comparative economic systems; the functions of government; national income and employment; business cycles; money and banking; monetary and fiscal policy; comparative advantage and trade policy; economic growth and stability; and income distribution and poverty. This course is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

#### **ECON 102**

**Principles of Microeconomics (C-ID: ECON 201)**

**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an elementary algebra course. It is also advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ECON 102 or ECON 102H

This introductory course in economic analysis of markets has students learn how markets work to coordinate consumers and producers, the various causes of the failure of free markets, and policies used to correct or regulate market behavior. The course is intended for economics and business majors as well as to satisfy General Education (GE) requirements, and may be taken prior to ECON 101.

Hours: 54 Lecture.

#### **ECON 102H**

**Principles of Microeconomics Honors (C-ID: ECON 201)**

**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an intermediate algebra course. It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ECON 102 or ECON 102H

This introductory course in economic analysis of markets has students learn how markets work to coordinate consumers and producers, the various causes of the failure of free markets, and policies used to correct or regulate market behavior. Students complete a research project on an actual economic policy or a theoretical view. The course is intended for economics and business majors as well as to satisfy General Education (GE) requirements, and may be taken prior to ECON 101 by any student who has completed ENGL 101 with a "C" or better. This course is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

#### **ECON 135**

**International Political Economy**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This is an introductory course designed for students interested in economics and political science, as well as anyone

interested in the global interconnectedness of the world economy. The course focuses on the relations between the political and economic systems within the global economy. The course covers the impact of political decisions on world economies and international organizations. Further emphasis is placed on a comparison-contrast of various national economies. Geographic areas of concern include Africa, Europe, the Pacific Rim, the Middle East, Latin America, Russia, China, and the United States. The course is cross-listed as Economics 135 and Political Science 135. Credit is given in either area, not both.

Hours: 54 Lecture.

## EDUCATION

### Division of Behavioral and Social Sciences

#### ED 090

##### Tutorial Skills

Units: 1

**It is advised that students be able to engage in written composition at a college level.**

This course provides preparation for successful peer tutoring at the community college level. Instruction will focus upon tutoring principles, techniques and materials, study skills strategies, communication skills, and learning differences. This course is intended for tutors in the Learning Assistance Center and other peer tutoring programs at Rio Hondo College.

Hours: 18 Lecture.

#### ED 105

##### Tutoring Reading Skills to Adult Students

Units: 0.5

**Enrollment requires the ability to read college-level texts.**

**Advisory:** ENGL 101

**Prerequisite/Corequisite:** ED 090

**Transfers to:** CSU

This course prepares students to tutor reading skills to adult learners at the community college. Tutors will review a range of vocabulary and comprehension skills needed for success. This course is intended for all tutors, especially those who plan to tutor reading, English, or English as a New Language (ENLA).

Hours: 9 Lecture.

#### ED 110

##### Introduction to Teaching (C-ID: EDUC 200)

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed to introduce students to the profession of teaching

through lecture and observation of K–12 classrooms and public schools. The major aspects of the teaching profession and the diversity of the public school system are examined and discussed, and students gain experience in all three levels of the K–12 system. This course is intended for students considering a career in teaching; 45 hours of structured fieldwork is required.

Hours: 54 Lecture.

## EDUCATIONAL DEVELOPMENT

### Division of Disabled Students Programs and Services

#### EDEV 020

##### Literacy Skills I

Units: 3

This is a beginning course for students with learning differences who have limited reading skills. Students practice learning strategies and techniques needed to encode, decode, and successfully integrate phonics and sight words to become better readers. This is a non-degree credit course and is offered on a pass/no pass basis.

Hours: 54 Lecture.

#### EDEV 021

##### Literacy Skills II

Units: 3

**Corequisite:** EDEV 021L

**Advisory:** READ 012 or VOCB 025 or appropriate skill level demonstrated through multiple measures or appropriate placement

This course is designed primarily for students with disabilities who need to improve basic reading skills such as dictionary usage, vocabulary development, and reading comprehension. Students practice specific learning strategies needed to compensate for diverse learning styles or deficits. This is a non-degree-applicable course and is offered on a pass/no pass basis. All students are required to be enrolled in the one-unit reading lab, EDEV 021L, at the same time they take this course.

Hours: 54 Lecture.

#### EDEV 021L

##### Literacy Skills II Lab

Units: 0.5

**Corequisite:** EDEV 021

This skills course is designed for students with learning disabilities who need to improve reading comprehension and vocabulary through individually prescribed lab work. Students complete reading tasks designed to complement the activities of their reading course. All students are required to be enrolled in EDEV 021, Literacy Skills II, at the same time they take this course. This is a non-degree-

applicable course and is offered on a pass/no pass basis.

Hours: 27 Lab.

#### EDEV 022

##### Basic Arithmetic

Units: 3

This course is a review of the basic principles and skills of arithmetic. The general areas of review are operations of whole numbers and fractions, operations with decimals and proportional thinking, percent problems and applications to percents. This course is designed for students with special needs to master basic computational skills, develop problem solving and arithmetic skills, and acquire learning strategies to allow them to function successfully upon matriculating into upper level mathematics courses. This is a non-degree applicable course.

Hours: 54 Lecture.

#### EDEV 024

##### Assessment for Learning Disabilities

Units: 0.5

**Enrollment requires appropriate placement through the Learning Disabilities Assessment Process**

This course provides intensive diagnostic learning assessment for students with learning disabilities. A profile will be developed through cognitive and achievement assessment which will emphasize specific academic and learning modality strengths and weaknesses. Students will develop a Student Education Contract to help them improve in reading, writing, spelling, computation, and learning skills as well as plan for future educational support. Recommended for all students who suspect they may have a learning disability. This is a non-degree credit course.

Hours: 27 Lab.

#### EDEV 025A

##### Adaptive Computer Technology A

Units: 1

**Advisory:** EDEV 021, EDEV 030 or ENLA 034

This course introduces disabled students to essential skills required to use a computer, including composing and sending email, using and navigating the campus-wide learning management system (LMS) (i.e., Canvas), and the basic features of assistive technology programs (e.g., Read&Write and Kurzweil 3000). The course also includes training in notetaking and word processing software (e.g., Glean and Microsoft Word).

Hours: 18 Lecture.

#### EDEV 025B

##### Adaptive Computer Technology B

Units: 1

**Advisory:** EDEV 021, EDEV 030 or ENLA 034

This course introduces disabled students to intermediate skills required to use a computer, including advanced

features of assistive technology programs (e.g., Read&Write and Kurzweil 3000) as well as presentation, personal information manager, and spreadsheet software (e.g., Microsoft PowerPoint, Outlook, and Excel). Hours: 18 Lecture.

#### **EDEV 026**

##### **Consumer Math**

**Units:** 3

**Advisory:** EDEV 021, EDEV 025, NBIZ 001

This course is designed specifically for developmentally delayed learners (DDL) and students with special learning needs who want to apply their math abilities to the workplace and everyday life. Home and money management; banking/obtaining credit; math skills in the workplace; use of calculators; timecards/taxes and benefits; and basic reading, writing and math across the curriculum are emphasized in the course. Guest speakers are invited, and student projects reflect students' conceptualization and ability to put into practice what is learned. This is a non-degree credit course. Hours: 54 Lecture.

#### **EDEV 027**

##### **Strategies for Career Success**

**Units:** 3

**Students must meet measured appropriate adaptive behaviors that meet California Community Colleges Title 5 regulations for DSP&S**

**Corequisite:** EDEV 027L

**Advisory:** EDEV 020

This course is designed specifically for the Developmentally Delayed Learner (DDL) and students with special learning needs to prepare them for employment. Emphasis is on developing skills in the areas of goal setting, career assessment inventory, career awareness, career exploration, choosing a career, career preparation, socialization, utilizing community resources and appropriate grooming and hygiene. This is a non-degree credit course and is offered on a pass/no pass basis. Hours: 54 Lecture.

#### **EDEV 027L**

##### **Strategies for Career Success Lab**

**Units:** 1

**Advisory:** EDEV 020

**Prerequisite/Corequisite:** EDEV 027

This course is designed specifically for the Developmentally Delayed Learner (DDL) population and students with special learning needs. The laboratory is a work experience program with minimum supervision. Students are placed in on- and off-campus work sites for 4 hours per week. They will receive on-the-job training with close supervision at the various locations - 4 weeks at each job site. This is a non-degree credit course and is offered on a pass/no pass basis. Hours: 54 Lab.

#### **EDEV 029**

##### **Independent Living Skills**

**Units:** 3

**Advisory:** EDEV 021 or EDEV 025 or VOCB 025 or appropriate placement.

This course is specifically designed for developmentally delayed learners (DDL) and students with special learning needs. Essential independent living skills are emphasized; topics focus on how to live and work issues—from maintaining a healthy body and a safe home—to finding and keeping a job—with the goal of students developing the necessary skills to gain greater independence outside the family structure. Hours: 54 Lecture.

#### **EDEV 030**

##### **English Skills**

**Units:** 3

**Corequisite:** EDEV 030W

This course is designed for students with learning disabilities who need to improve basic writing skills. A process approach to writing is integrated with reading assignments to provide a variety of writing experiences. Students practice strategies to develop thinking, language, and writing skills. This course is the beginning level of composition; it prepares students for success in ENGL 035 or ENGL 101. This is a non-degree credit course and is offered on a pass/no pass basis. Students are required to concurrently enroll in EDEV 030W. Hours: 54 Lecture.

#### **EDEV 030W**

##### **English Skills Workshop**

**Units:** 1

**Corequisite:** EDEV 030

This course is a skills class to assist students with learning disabilities in improving writing and language skills through instruction with the Learning Disabilities Specialist. Students will perform writing tasks designed to complement the activities of their composition class. This is a non-degree applicable course and is offered on a pass/no pass basis. Students are required to concurrently enroll in EDEV 030, English Skills. Hours: 54 Lab.

#### **EDEV 033A**

##### **Mathematical Foundations**

**Units:** 2.5

**It is advised that students be able to read pre-collegiate texts and have completed EDEV 030 or ENLA 034**

This course combines topics from basic math and prealgebra, including operations with whole numbers, integers, fractions, and decimals. It serves as a foundational course for all students. Completion of the course enables students to register for EDEV 033B (students must complete EDEV 033A and EDEV 033B within a maximum period of 24 months). This course is designed to help students with special needs master and develop problem solving and arithmetic skills, and to acquire learning strategies to allow

them to be successful upon matriculating into upper-level mathematics courses. This is a non-degree-applicable course. Hours: 45 Lecture.

#### **EDEV 033B**

##### **Mathematical Foundations**

**Units:** 2.5

**Prerequisite:** EDEV 033A or appropriate placement

This course combines topics from basic math and prealgebra, including rates, ratios, and proportional thinking; percent problems and applications to percent; and an introduction to algebraic thinking using fundamental principles of expressions and methods to solve linear equations. It serves as a foundational course for all students, who must complete EDEV 033B and its prerequisite, EDEV 033A, within a maximum period of 24 months. This course is designed to help students with special needs master and develop problem solving and arithmetic skills, and to acquire learning strategies to allow them to be successful upon matriculating into upper-level mathematics courses. This is a non-degree-applicable course. Hours: 45 Lecture.

#### **EDEV 101**

##### **College and Life Success (Same as COUN 101)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 3 units credit for all COUN/EDEV courses. This course explores the cognitive, psychological, social, and physical factors that influence success in college and in life. Topics include personal responsibility, critical thinking, motivation, self-efficacy, personal awareness, lifelong learning, self-management, health and wellness, interpersonal communication in a diverse world, and introductory career and educational planning. Students learn about the purpose, demands, and requirements of higher education, as well as student support services, at Rio Hondo College and four-year institutions. Hours: 54 Lecture.

#### **EDEV 134**

##### **Study Techniques**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is a course in college study skills which also addresses the needs of students identified with special learning needs. Students are taught specific techniques, principles, and strategies which enable them to effectively acquire, integrate, store, and retrieve

information and thus become more successful students. Topics in this course include in-depth instruction in critical reading and thinking, time management, memory techniques, note-taking, test-taking, creativity, and communication. Students are encouraged to utilize appropriate college resources.  
Hours: 54 Lecture.

#### **EDEV 151**

##### **Career Exploration and Life Planning (Same as COUN 151)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 3 units credit for all COUN/EDEV courses. This course will examine student, career, and self-development theories to empower students to make effective decisions throughout their lifespan by engaging in the process of career and life planning from a psychological, sociological, and physiological perspective. Students will compare and contrast human development and career theories, decision-making processes, and factors that contribute to college success, life skills, adult workplace competencies, values, interests, abilities, and personality. Labor market trends in a global economy and successful job search and workplace behaviors will also be examined.  
Hours: 54 Lecture.

## **ETHNIC, GENDER, AND SEXUALITY STUDIES**

### **Division of Behavioral and Social Sciences**

#### **EGSS 110**

##### **Introduction to Ethnic Studies (C-ID: SJS 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an introduction to the interdisciplinary study of race and ethnicity in the United States. Focusing on the socioeconomic and political experiences of Black Americans, Native Americans, Asian Americans, and Chicanx/Latinx Americans, the course surveys topics such as colonization, decolonization, racialization, indigeneity, immigration, intersectionality, social justice movements, cultural expression and resistance, and major theories of race and ethnicity.  
Hours: 54 Lecture.

#### **EGSS 120**

#### **Introduction to Women's Studies (C-ID: SJS 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an introduction to the origins, purpose, subject matter, and methods of women's studies and to feminist perspectives on a range of social issues affecting women of diverse backgrounds. The course focuses on an examination of gender and its intersections with race, class, sexuality, dis/ability, age, religion, and other systems of difference.  
Hours: 54 Lecture.

#### **EGSS 130**

##### **Introduction to LGBTQ+ Studies (C-ID: SJS 130)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Plus (LGBTQ+) Studies, and examines LGBTQ+ Studies as an interdisciplinary field. In particular, the course takes up the influences of history, politics, media, and health care as they relate to the LGBTQ+ community. Throughout this course, students work toward a deeper understanding of the intersectional dynamics of privilege and oppression as significant LGBTQ+ issues.  
Hours: 54 Lecture.

## **ELECTRONICS**

### **Division of Career and Technical Education**

#### **ELEC 050**

##### **Introduction to the Electrical Industry**

**Units:** 2

**It is advised that students be able to engage in written composition at an early college level, read college-level texts, and have knowledge of elementary algebra concepts.**

This introductory course is for a general audience and for those contemplating a career in the powerline (electrical) industry. Students will become acquainted with the basic concepts of terminology and will receive hands-on experience with components and measuring equipment.  
Hours: 27 Lecture. 27 Lab.

#### **ELEC 051**

##### **Electrical Power Distribution Systems**

**Units:** 3

**Prerequisite:** ELEC 050

This is an introductory course for linemen and those interested in a career in the power utility industry. This

is the second class of a five class program designed to provide the student with knowledge and skills with electrical power distribution systems. This course explains how electricity is generated and delivered to customers. Course content includes safety, basic electrical theory of generation, transmission, transformers, regulators, fuses, meters, and applied mathematics to illustrate basic electricity relationships of components in an electrical power distribution system.  
Hours: 45 Lecture. 27 Lab.

#### **ELEC 052**

##### **Distribution of Electrical Power**

**Units:** 3

**Prerequisite:** ELEC 051

This is an introductory course for linemen and those interested in a career in the power utility industry. This is the third class of a five class program designed to provide the student with knowledge and skills with electrical power distribution systems. This course further explains the distribution of electrical energy, starting with the various methods of generation, through a more extensive look into various transmission systems, into the rural and urban substations, and ending at the customer's service entrance. Course content includes safety, electrical theory of generation, transmission, distribution, substations, transformers, and applied mathematics related to the components of an electrical power distribution system.  
Hours: 45 Lecture. 27 Lab.

#### **ELEC 061**

##### **Fundamentals of Wire and Cabling**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course will present the principles and practices of copper cable wiring technology and includes instruction in the design, installation, and maintenance of copper wiring systems for intelligent control systems, lighting and appliance control devices, communication, and networking. Also includes instruction in household and institutional power wiring. This course is designed for students wanting to work in the Home Technology Service industry.  
Hours: 27 Lecture. 27 Lab.

#### **ELEC 062**

##### **Fundamentals of Fiber Optics**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course presents the principles and practices of fiber optics and optoelectronic technology and includes instruction in the design, installation, and maintenance of fiber optic cabling control systems and optoelectronic control systems for computer



communication and networking systems. This course is designed for students wanting to work in the Home Technology Service industry.  
Hours: 27 Lecture. 27 Lab.

**ELEC 063**  
**Fundamentals of Wireless Communication**  
**Units: 2**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course presents the principles and practices of wireless communication technology and includes instruction in the design, installation, and maintenance of wireless communication technology network systems. Emphasis is placed on system reliability, security, and cost containment concerns. This course is designed for students wanting to work in the Home Technology Service industry.  
Hours: 27 Lecture. 27 Lab.

**ELEC 064**  
**Home Technology Integration**  
**Units: 4**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course presents the principles and practices of installing and maintaining home technology. Students are exposed to home lighting controls, computer networking, home security, home entertainment systems including video, data, and voice, heating ventilation and air conditioning control systems, and home systems integration. This course prepares the student for Home Technology Industry certification and is designed for students wanting to work in the Home Technology Service industry.  
Hours: 54 Lecture. 54 Lab.

**ELEC 070**  
**Applied Telecommunications Technology**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary algebra concepts.**

This is an introductory course that will examine the theory behind present day wireless (cellular) telecommunications systems which will include an in-depth analysis of the design and installation of these systems. The course is intended for students interested in a career in the wireless telecommunications industry. Topics will include: mobile devices networks, antenna orientation, base station system, and the operation and support system associated with the wireless systems. Also presented are topics on environmental effects, governmental impact and history of wireless telecommunications.

Hours: 45 Lecture. 27 Lab.

**ELEC 071**  
**Mobile and Wireless Communications**  
**Units: 3**

**Prerequisite:** ELEC 070

This is the second class of a five class program that will further examine the theory behind present day wireless (cellular) telecommunications systems. This course is designed to provide students with information and skills associated with the wireless (cellular) telecommunications industry. The course is intended for students that are interested in a new career or are currently working in the wireless telecommunications industry. Topics will include: Wireless standards and protocols and the critical issues of compatibility, internetworking, and voice/data convergence, design and integration of WCDMA/UMTS, CDMA2000, and SCDMA into existing cellular/PCS networks. Also presented are topics on RF propagation, 3G and 4G networks, and the future of wireless telecommunications.  
Hours: 45 Lecture. 27 Lab.

**ELEC 100**  
**DC and AC Fundamentals**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This introductory course in direct current (DC) and alternating current (AC) electricity is for students and for those contemplating a career in the electrical/electronics industry. Course content includes basic theories, resistance, capacitance, inductance, simple DC and AC circuits, transformers, measuring instruments, batteries, motors, and generators.  
Hours: 45 Lecture. 27 Lab.

**ELEC 101**  
**DC Electronic Circuits and Devices**  
**Units: 4**

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is an introduction to the field of Direct Current (DC) electricity/electronics. Emphasis is on the theory of operation, physical properties and characteristics of DC electrical/electronic circuits and devices. Students will analyze circuits and solve problems utilizing basic network analysis methods. The course will instruct students on the arrangement of circuit diagrams, proper identification of circuit/device symbols, and use of wiring schematics. Laboratory work provides experience with the design and test of basic electrical circuits, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment. This course is for students

that are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A.S. Degree or a Certificate in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

**ELEC 102**  
**AC Electronic Circuits and Devices**  
**Units: 4**

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have a knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is an introduction to the field of Alternating Current (AC) electricity/electronics. Emphasis is on the theory of operation, physical properties and characteristics of AC electrical/electronic circuits and devices. Students will analyze circuits and solve problems utilizing basic network analysis methods. The course will instruct students on the arrangement of circuit diagrams, proper identification of circuit/device symbols, and use of wiring schematics. Laboratory work provides experience with the design and test of basic electrical circuits, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment. This course is for students that are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A.S. Degree or a Certificate in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

**ELEC 105**  
**Computer Simulation and Fabrication of Electronic Circuits**  
**Units: 2**

**Prerequisite:** ELEC 101

**Transfers to:** CSU

This course provides an introduction to the use of computer software in the simulation and fabrication of electronic circuits and printed circuit boards. It is intended for students in electronics technology as well as those currently working in the electronics industry. Using a popular educational version of circuit simulation software, the Electronics Workbench TM program suite, students will be introduced first to concepts of analog and digital circuit simulation. The modeled circuits are then processed. Fabricated and ultimately tested as prototype circuit boards. Students will learn to use a miniature computer controlled circuit board mill to produce the prototypes.  
Hours: 18 Lecture. 54 Lab.

**ELEC 108**  
**Introduction to Solid State Devices and Circuits**  
**Units: 4**

**Prerequisite:** ELEC 101 and ELEC 102  
**Transfers to:** CSU

This course is an introduction to solid state devices used in the field of electronics. Emphasis is on the theory of operation, methods of fabrication,

physical properties, and characteristics of semiconductor devices and circuits. Devices considered include diodes, bipolar junction transistors (BJTs) and field effect transistors (FETs), special diodes, thyristors (i.e., silicon-controlled rectifiers, or SCRs), digital and analog integrated circuits (ICs), and typical applications of each device in amplifier, regulator, oscillator, timer, and digital circuits. Students analyze circuits and solve problems utilizing basic network analysis methods. Laboratory work provides experience with the design and testing of basic solid state device circuits, including signal tracing and troubleshooting, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment. This course is for students who are contemplating a career in the electrical/electronics industry, and is part of the preparation leading to an A.S. degree or a Certificate in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

#### **ELEC 109**

##### **Linear Analog Circuits and Devices**

**Units:** 4

**Prerequisite:** ELEC 101 and ELEC 102  
**Transfers to:** CSU

This course focuses on linear analog circuits and devices used in the field of electronics. Emphasis is on the theory of operation, methods of fabrication, physical properties, and characteristics of operational amplifiers, other discrete circuits, and external circuitry. The course builds on the foundations students have learned in previous electronics courses, continuing the study of solid state devices and circuits with an emphasis on integrated circuits (ICs) and applications. Students analyze circuits and solve problems utilizing basic network analysis methods, exploring IC device characteristics and considering the topics of input/output impedance, drift, offset, bias current, gain, frequency response, and simple modeling. Device data sheets and application notes are introduced to provide training in the selection of devices for specific purposes. Laboratory work provides experience with the design and testing of basic solid state device circuits, including signal tracing and troubleshooting, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment. This course is for students who are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A.S. degree in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

#### **ELEC 111**

##### **Introduction to Digital Electronics**

**Units:** 4

**Prerequisite:** ELEC 101 and ELEC 102  
**Transfers to:** CSU

This course is an introduction to digital electronic principles common to all areas of electronics. The course emphasizes the study of number

systems and representations such as binary codes, hexadecimal codes, and Boolean algebra; and covers topics including analysis and design of combinational and sequential logic circuits, gates, adders, transistor-transistor logic (TTL), small- and medium-scale integrated devices, programmable logic, simulation of digital circuits and complementary metal-oxide-semiconductors (CMOSs), and emitter-coupled logic (ECL) families. Laboratory work also provides experience with the design and testing of basic digital circuits, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment. This course is for students who are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A.S. degree or a Certificate in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

#### **ELEC 208**

##### **Advanced Solid State Devices and Circuits**

**Units:** 4

**Prerequisite:** ELEC 108

**Transfers to:** CSU

This course is a continuation of the study of solid state devices used in the field of electronics presented in the introductory course ELEC 108. Emphasis is on the theory of operation, physical properties and characteristics of advanced semiconductor devices and circuits. Devices considered are advanced design transistors, silicon controlled rectifiers (SCRs) and other digital and analog integrated circuits (ICs), typical applications of each device in inverters, converters, and switching power supplies. Students analyze circuits and solve problems utilizing basic network analysis methods with an emphasis on advanced biasing, cascading, coupling, and phase shifting. Laboratory work provides experience with the design and testing of advanced solid state device circuits including signal tracing and troubleshooting, schematic diagrams, and common laboratory equipment. This course is for students who are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A.S. degree or a Certificate in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

#### **ELEC 211**

##### **Advanced Digital Electronics**

**Units:** 4

**Prerequisite:** ELEC 111

**Transfers to:** CSU

This course is a continuation of introduction to electronic digital principles common to all areas of electronics. Building on the foundations covered in ELEC 111, emphasis will be placed on the study of various types of Counters, A/D and D/A Converters, I-O Devices, Memories and an introduction to Micro Computers. Through

laboratory work, students learn applications by constructing various circuits and devices. Advanced analysis and design of combinational and sequential Logic Circuits, Gates, Adders, TTL: small and medium scale integrated devices, programmable logic and simulation of digital circuits and ECL families will be covered. Laboratory work will also provide experience with the design and test of basic digital circuits, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment. This course is for students who are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A.S. degree or a Certificate in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

#### **ELEC 240**

##### **Microprocessors and Microcomputing**

**Units:** 4

**Prerequisite:** ELEC 211

**Transfers to:** CSU

This course provides a fundamental knowledge of the general architecture of microcomputers. Emphasis is on the study of organization and structuring of the major hardware and software components of computers, including the central processing unit (CPU) and some of the input/output (I/O) devices used to interface the CPU to various peripheral devices. The course considers the physical aspects of information transfer and control within a digital computer, and emphasizes network architecture, communication protocol, microprogramming instruction sets, and assembly language programming. Laboratory exercises focus on construction and deconstruction of a basic computer and testing and troubleshooting critical functions. This course is for students who are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A.S. degree or a Certificate in Electronics Technology.  
Hours: 54 Lecture. 54 Lab.

#### **ELEC 299**

##### **Directed Study in Electronics Technology**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies

may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.  
Hours: 54-162 Lab.

## EMERGENCY MEDICAL TECHNICIAN

### Division of Public Safety

#### EMT 093

##### Emergency Medical Technician

Units: 9

**Prerequisite:** EMT 100 with a grade of "B" or better

This course is designed to certify students as a National Registry and State of California emergency medical technician (EMT), and gain employment as an ambulance EMT, hospital emergency department EMT, or event staff EMT. After successful completion of this course, students will be approved to take the National Registry EMT cognitive examination and then request certification as an EMT through the Los Angeles County Emergency Medical Services (EMS) Agency or other local EMS accrediting agencies in California. Topics discussed include pre-hospital care terminology, cardiovascular emergencies, emergency childbirth, communicable disease transmission, extrication tools and equipment, tactical casualty care, automatic external defibrillation, and the EMS system. In order to participate in this course students must pass a background check, EMT medical physical that includes vaccination verification, and a 10-panel drug screen.

Hours: 126 Lecture. 108 Lab.

#### EMT 093-1

##### Emergency Vehicle Operations

Units: 4

**Enrollment requires possession of a class "C" license and the ability to read college-level texts. It is advised that students be able to engage in written composition at a college level and have a knowledge of prealgebra concepts.**

This course is designed for EMT students and other interested students to gain certification to obtain an Ambulance Driver Certificate in California. An Ambulance Driver Certificate can be obtained prior to completion of this course. Pre-Trip inspection, driving skills and a driving test is part of this course. Students will complete their certification through the California DMV. A physical may be required to meet California DMV requirements in regards to licensing.  
Hours: 54 Lecture. 54 Lab.

#### EMT 100

##### Emergency Medical Responder

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is intended for students who seek a better understanding of the role and responsibilities of a first responder. The course also meets the State of California Title 22 requirements pertinent to cardiopulmonary resuscitation (CPR), first aid, and automatic external defibrillation (AED) training as related to being an emergency medical technician (EMT). This course also certifies students in CPR for the healthcare professional.  
Hours: 36 Lecture. 54 Lab.

#### EMT 290

##### Cooperative Work Experience / Internship for Emergency Medical Technician Related Fields

Units: 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in the Emergency Medical Technician field under supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in the area of Emergency Medical Technician and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of fire technology or EMS (emergency medical services) and have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.  
Hours: 3 Lecture. 60-300 Lab.

## ENGLISH

### Division of Communications and Languages

#### ENGL 010S

##### English Composition Support

Units: 1

**It is advised that students be able to engage in written composition at a college level.**

**Corequisite:** ENGL 101

This co-requisite course for English 101 assists students who may benefit from additional support so that they can succeed in a college-level English composition course. Students are afforded additional practice in all phases of composition, grammar, and mechanics.

Hours: 18 Lecture.

#### ENGL 010SP

##### English Composition Support Plus

Units: 2

**It is advised that students be able to read college-level texts.**

**Corequisite:** ENGL 101

This co-requisite course for English 101 assists students who may benefit from additional support so that they can succeed in a college-level English composition course. Students are afforded additional practice in all phases of composition, grammar, and mechanics.

Hours: 36 Lecture.

#### ENGL 101

##### College Composition and Research (C-ID: ENGL 100)

Units: 3.5

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition.**

**Transfers to:** UC/CSU

This composition course enables students to generate logical, coherent essays that incorporate sources necessary for academic and professional success. Students become proficient in researching, evaluating, and incorporating sources, and in learning critical reading and thinking skills through expository and persuasive reading selections before applying these skills to creating original documented essays. The writing workshop component of the course is designed to assist students with improving and refining their writing and language skills: Students complete writing workshop activities that enhance their ability to compose logical, well-supported arguments that exhibit grammatical fluency and correct citation styles. Students meet with composition instructors through individual or small group conferences that address students' specific writing concerns. This course is designed for students who wish to fulfill the General



Education requirement for Written Communication.

Hours: 54 Lecture. 27 Lab.

**ENGL 104**  
**Tutorial Skills in Composition**

**Units:** 0.5

**Prerequisite:** ENGL 101 with a grade of A or ENGL 201 with a grade of A or B

**Prerequisite/Corequisite:** ED 090

**Transfers to:** CSU

This course prepares students to tutor in composition/writing. Prospective tutors will be trained to assist students in all stages of the writing process: invention/prewriting, composing/drafting, revising, and editing. Emphasis will be placed on the dialogic nature of the tutoring process in writing. This course is intended for all prospective tutors and coaches who will be helping students in writing.

Hours: 9 Lecture.

**ENGL 125**  
**Grammar and Usage**

**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition. It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU

This course explores parts of speech, varieties of sentence structures, common grammar and usage problems, and how to apply these issues to real-world communications. It is designed for students who wish to expand their knowledge of standard American English and thereby increase their skill in the written and spoken language. It is especially helpful for students planning to go into teaching.

Hours: 54 Lecture.

**ENGL 126**  
**Languages of the World**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This is a linguistics course which covers the major languages families of the world and representative languages from those families. It presents the phonology, morphology, syntax, and pragmatics of these languages. It is specifically targeted at those who will be working with non-native speakers of English in order to equip them to recognize the cross-linguistic influences of other languages on English, thus preparing them to communicate more effectively with their clients and/or students and to assess the linguistic and sociolinguistic factors which affect communication. This course is useful for majors in foreign language, anthropology, communications, health science, and English, and especially for those planning to enter elementary and secondary teaching in California, with its diversity of languages and cultures.

Hours: 54 Lecture.

**ENGL 127**  
**Language Structure and Language Use: Introduction to Linguistics**

**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition. It is advised that students be able to engage in written composition at a college level.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ENGL 127 or ENGL 127H

This course explores the nature and structure of world languages. Students will study whole language development through discourse and semantics. The structure of words, which includes phonology, morphology, and how words are used together in sentences, syntax, will also be explored. The tool to decode worldwide sounds, the International Phonetic Alphabet, will be a key element in the course. Students will also discuss the difference between learning a language and acquiring a language. This course is beneficial for future teachers and for those majoring in any foreign language, English, communications, and anthropology.

Hours: 54 Lecture.

**ENGL 127H**  
**Language Structure and Language Use: Introduction to Linguistics Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ENGL 127 or ENGL 127H

This course explores the nature and structure of world languages and students will study language development through discourse and semantics as well as language use. The structure of words, which includes phonology, morphology, and how words are used together in sentences, syntax, will also be explored. A tool to decode worldwide sounds, the International Phonetic Alphabet, will be a key element in the course. Students will also discuss the difference between learning a language and acquiring language. This course is beneficial for future teachers and for those majoring in any foreign language, English, communications, and anthropology. This course is designed for students eligible for the Honors Program.

Hours: 54 Lecture.

**ENGL 131**  
**Creative Writing (C-ID: ENGL 200)**

**Units:** 3

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU

This course is for students interested in various types of writing as forms of expression. It offers students a workshop setting in which to develop their writing skills in various genres such as fiction, poetry, and playwriting. Students will learn to "read as writers" by analyzing published writings in various genres with a focus on authorial techniques and effectiveness. Students also will be required to write regularly, present their own work in class for discussion, and develop critical standards for evaluating the merit of their own work and the work of their peers.

Hours: 54 Lecture.

**ENGL 201**  
**Advanced Composition and Critical Thinking (C-ID: ENGL 105)**

**Units:** 3.5

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: ENGL 201 or ENGL 201H

This advanced composition course is open to all students who have successfully completed ENGL 101 and is designed for those who expect to transfer to four-year colleges or universities. Students will read and write extensively, while applying critical thinking skills and research techniques. Students will demonstrate these abilities in advanced composition as they research and write a series of argumentative essays, which demonstrate the ability to analyze issues, evaluate positions, and argue persuasively through clear, concise prose. The lab component of this course is designed to assist students in advancing and refining their writing and language skills and will augment their ability to exercise critical thought. Students will complete lab activities that further enhance their ability to compose logical, well-supported arguments that exhibit grammatical fluency and correct documentation form. Students will meet with composition instructors through individual conferences that address students' specific writing concerns.

Hours: 54 Lecture. 27 Lab.

**ENGL 201H**  
**Advanced Composition and Critical Thinking Honors (C-ID: ENGL 105)**

**Units:** 3.5

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Student will receive credit for only one of the following courses: ENGL 201 or ENGL 201H

This advanced composition course is open to all students who have successfully completed ENGL 101, and is designed for those who expect to transfer to four-year colleges or universities. In the course, students read

and write extensively while applying critical thinking skills and research techniques, demonstrating advanced composition acumen by researching and writing a series of argumentative essays that demonstrate the ability to analyze issues, evaluate positions, and argue persuasively through clear and concise prose. The lab component of the course is designed to assist students in advancing and refining writing and language skills, and augments students' ability to exercise critical thought. Students complete lab activities that further enhance their ability to compose logical, well-supported arguments that exhibit grammatical fluency and correct citation styles. Students meet with composition instructors through individual conferences that address their specific writing concerns. The course is intended for students who meet Honors Program requirements. Hours: 54 Lecture. 27 Lab.

**ENGL 231**  
**Advanced Creative Writing**  
**Units:** 3

**Prerequisite:** ENGL 131  
**Transfers to:** UC/CSU  
This course is for students interested in continuing their studies in various forms of writing. It offers students a workshop beyond ENGL 131 in which to develop more advanced writing skills in various genres such as fiction and poetry. Students will continue to learn to "read as writers" by analyzing published writings in various genres, with a focus on authorial techniques and effectiveness. Students also will be required to write regularly, present their own work in class for discussion, and develop critical standards for evaluating the merit of their own work and the work of their peers. Hours: 54 Lecture.

**ENGL 299**  
**Directed Study: English**  
**Units:** 1-3

**Transfers to:** CSU  
Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for

other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of four (4) units within a discipline, and may not accumulate more than a total of twelve (12) units college wide. Hours: 54-162 Lab.

**ENGL 325**  
**Technical and Professional Writing**  
**Units:** 3

**Prerequisite:** ENGL 201 or ENGL 201H  
This upper division, General Education course is designed for students pursuing a Bachelors of Science degree in Automotive Technology. Students develop expository writing skills on technical subjects relevant to automotive and transportation-related industries, business, science, government, and similar fields. Written assignments comprise short forms including technical description, proposals, manuals, and journal articles, as well as longer formal papers, feasibility studies, and technical reports. This course helps students develop principles of clear writing appropriate to automotive industry standards. Hours: 54 Lecture.

## ENGINEERING

### Division of Mathematics, Sciences, and Engineering

**ENGR 100**  
**Introduction to Engineering (same as ENGT 100) (C-ID: ENGR 110)**  
**Units:** 2

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU  
This introductory course considers different branches of engineering, the engineering industries, and the functions of engineers and related roles. Topics include the methods and tools of engineering problem solving and design, the place of engineering in society, and engineering ethics. Students learn about the educational requirements for careers in engineering fields and effective strategies to be academically successful in engineering programs, practice developing communication skills pertinent to engineering professions, and explore a variety of engineering career pathways to plan and shape career goals. Hours: 27 Lecture. 27 Lab.

**ENGR 141**  
**Materials Science and Engineering (C-ID: ENGR 140)**

**Units:** 3  
**Prerequisite:** PHY 211 and CHEM 130  
**Transfers to:** CSU  
This course takes up the internal structures and behaviors of materials used in engineering applications, including the material properties of metals, ceramics, polymers, composites, and semiconductors. Students learn how to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. Hours: 54 Lecture.

**ENGR 141L**  
**Materials Science and Engineering Lab (C-ID: ENGR 140L)**

**Units:** 1  
**Prerequisite:** CHEM 130, PHY 211  
**Prerequisite/Corequisite:** ENGR 141  
**Transfers to:** CSU  
This course takes up the internal structures and behaviors of materials used in engineering applications, including the material properties of metals, ceramics, polymers, composites, and semiconductors. Students directly observe and analyze the characteristics of engineering materials discussed in the lecture (ENGR 141) through the operation of experimental equipment and activities related to report writing. Hours: 54 Lab.

**ENGR 212**  
**Computational Methods in MATLAB/Octave (C-ID: ENGR 220)**  
**Units:** 4

**Prerequisite:** MATH 190 or MATH 190H, PHY 211  
**Transfers to:** UC/CSU  
This course teaches scientific computation using MATLAB/Octave software packages. Topics include an introduction to matrix and vector methods, numerical methods including integration and differentiation, Monte Carlo methods, statistical analysis of large data sets, and the creation of scientific graphics. Topics are applied to solve typical problems in physics and engineering. Hours: 54 Lecture. 54 Lab.

**ENGR 217**  
**Electric Circuit Analysis (C-ID: ENGR 260)**

**Units:** 3  
**Prerequisite:** MATH 260, MATH 270, PHY 213  
**Transfers to:** UC/CSU  
This course is for students who intend to pursue a major in engineering. The course covers topics in electrical engineering, including Ohm's law, dependent and independent sources, Kirchhoff's laws, mesh-current and nodal-voltage methods, Thévenin and Norton equivalent circuits, linear superposition, DC/AC transient and steady-state responses of linear RLC circuits, phasors, AC power calculations, and three-phase circuits. Theoretical

analysis of modern, semiconducting devices such as diodes, operational amplifiers (op-amps), metal-oxide-semiconductor field-effect transistors (MOSFETs), and bipolar junction transistors (BJTs) will also be explored in the context of non-linear circuits, digital circuits capable of Boolean logic, and the integration of semiconducting circuit elements into linear, RLC circuits with applications.  
Hours: 54 Lecture.

**ENGR 217L  
Electric Circuit Analysis Lab (C-ID:  
ENGR 260L)**

**Units:** 1

**Prerequisite:** MATH 260, MATH 270, PHY 213

**Prerequisite/Corequisite:** ENGR 217  
**Transfers to:** UC/CSU

This course is an introduction to the design, construction, and measurement of analog and digital electrical circuits, including operational amplifiers and modern semiconducting devices. The use of multimeters, oscilloscopes, power supplies, and function generators is emphasized, as is the simulation of circuits with software. Direct current (DC), transient, and alternating current (AC) steady state conditions are investigated.  
Hours: 54 Lab.

**ENGR 235  
Engineering Mechanics: Statics**

**Units:** 3

**Prerequisite:** PHY 211

**Transfers to:** UC/CSU

This course is for students who intend to pursue a major in engineering, and provides an overview of the effect of two- and three-dimensional force systems on particles and rigid bodies under equilibrium conditions. Topics covered include distributed forces and determination of centroids, analysis of trusses, frames and machines, internal forces and moments, systems involving friction, and methods of virtual work and equilibrium.  
Hours: 54 Lecture.

**ENGR 240  
Strength of Materials**

**Units:** 3

**Prerequisite:** ENGR 235, MATH 191

**Transfers to:** UC/CSU

This course is an introduction to the basics of strength of materials. Students examine how forces affect machine members and structural elements, calculate stress and strain, analyze connections, and evaluate beams and columns. Topics include loading; statically indeterminate structures; temperature and prestrain effects; shear force and bending moment; axial, shear, bearing and bending stresses; deflection of beams; and buckling of columns. Students use calculations applied to the above topics to determine if a certain design will succeed or fail.  
Hours: 54 Lecture.

**ENGR 245**

**Engineering Mechanics: Dynamics (C-ID: ENGR 230)**

**Units:** 3

**Prerequisite:** ENGR 235

**Transfers to:** UC/CSU

This course is for students who intend to major in engineering, and provides an overview of the effect of two- and three-dimensional force systems on particles and rigid bodies in motion. Topics include kinematics of particles and rigid bodies; applications of Newton's Second Law; energy and momentum methods in the study of motions; translational, rotational, and general planar motion; and mechanical vibrations.  
Hours: 54 Lecture.

## ENGINEERING TECHNOLOGY

### Division of Career and Technical Education

**ENGT 100**

**Introduction to Engineering (Same as ENGR 100) (C-ID: ENGR 110)**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This introductory course considers different branches of engineering, the engineering industries, and the functions of engineers and related roles. Topics include the methods and tools of engineering problem-solving and design, the place of engineering in society, and engineering ethics. Students learn about the educational requirements for careers in engineering fields and effective strategies to be academically successful in engineering programs, practice developing communication skills pertinent to engineering professions, and explore a variety of engineering career pathways to plan and shape career goals.  
Hours: 27 Lecture. 27 Lab.

**ENGT 101**

**Introduction to Technical Drawing & Graphics**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This basic course in technical drawing and graphics is for students with no previous drafting skills or training. The course is designed for students who want to pursue training in fields and careers related to architecture, civil design, and engineering design drafting. Practical application with the tools, techniques, standards, and practices used in the industries that

need technical drawings and graphics is a feature of the course.

Hours: 36 Lecture. 54 Lab.

**ENGT 105**

**Introduction to Visualization, Sketching, & Rendering**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to develop skills in drawing as used by design professionals in architectural and technical applications. Using visualization and deploying basic principles of proportion, composition, and freehand techniques, students prepare technical isometric, oblique, perspective, and orthographic sketches to industry standards. Design considerations for various projects involving preliminary design sketches are also introduced. This course is open to all students who want to develop drawing skills. It is required for all students working towards a degree or certificate in the Architecture and Engineering Design Drafting program.  
Hours: 27 Lecture. 27 Lab.

**ENGT 122**

**Intermediate Engineering Design: Geometric Dimensioning & Tolerancing**

**Units:** 3

**Advisory:** ENGT 101 or two years of high school drafting, ENGT 105, ENGT 150 or ENGT 170

**Transfers to:** UC/CSU

In this course, emphasis is placed on technical drawing using International Organization for Standardization (ISO) and American National Standards Institute (ANSI) standards, including geometric dimensioning and tolerancing (GD&T), for the purposes of completing a conceptual design project and the preparation of working drawings. This course is required for all students working towards a degree or certificate in the Architecture and Engineering Design Drafting program. The course is also recommended for students interested in transferring to schools of engineering.  
Hours: 36 Lecture. 54 Lab.

**ENGT 123**

**Intermediate Engineering Design: Descriptive Geometry**

**Units:** 2

**Advisory:** ENGT 101, ENGT 105, ENGT 150

**Transfers to:** UC/CSU

This course is an introduction to graphics as used in engineering design utilizing descriptive geometry to solve three-dimensional engineering problems involving space, points, planes, and lines. The course explores the concepts of true length and size used within the industry to design and manufacture projects with high accuracy; utilizing auxiliary views; and

revolution methods in regard to creating edges, surfaces, and developments.

Hours: 27 Lecture. 27 Lab.

### **ENGT 131**

#### **Advanced Engineering Design: Manufacturing Applications of Technical Drawing**

**Units:** 4

**Prerequisite:** ENGT 122, ENGT 123, ENGT 150 or ENGT 170 or appropriate CADD experience

**Advisory:** ENGT 200, ENGT 250

**Transfers to:** UC/CSU

This intermediate course takes up technical drawing as used in manufacturing applications of design and engineering technology, and is intended for all students in areas of study related to engineering, technical drafting, design, and computer graphics. The course incorporates orthographic projection, introduction to tool design, and applications of descriptive geometry through layouts and developments. The course also covers the American National Standards Institute (ANSI) Y14.5 standard, precision dimensioning, geometric tolerancing, and manufacturing terminology and processes. Lab exercises and drawings are used to reinforce lecture and demonstration concepts.

Hours: 54 Lecture. 54 Lab.

### **ENGT 150**

#### **AutoCAD for Basic CADD Applications**

**Units:** 4

**Advisory:** ENGT 101 or two years of high school drafting

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units of credit for the following courses: ENGT 150, ENGT 250, and ENGT 270.

This course is for students preparing for high-technology careers who need the skills necessary to function as an entry-level computer-aided design and drafting (CADD) operator, or to apply CADD to the specific disciplines of mechanical and architectural design, manufacturing, illustration, and engineering-related documents. An overview of computer graphics and CADD utilizing the latest release of AutoCAD software is provided. Students produce 2D orthographic, isometric, and basic 3D model solutions of mechanical and architectural applications.

Hours: 54 Lecture. 54 Lab.

### **ENGT 170**

#### **MicroStation for Basic CADD Applications**

**Units:** 4

**Advisory:** ENGT 101 or two years of high school drafting

**Transfers to:** CSU

This course is for students preparing for high technology careers who need the skills necessary to function as an entry level CADD operator or to apply CADD to specific disciplines of mechanical and

architectural design, manufacturing, illustration and engineering related documents. An overview of computer graphics and CADD (Computer Assisted Design and Drawing) utilizing the latest release of MicroStation software will be provided. Students will produce 2D orthographic and basic 3D model solutions of mechanical and architectural applications.

Hours: 54 Lecture. 54 Lab.

### **ENGT 200**

#### **Intermediate CAD Modeling for Design & Production**

**Units:** 4

**Prerequisite:** ENGT 105, ENGT 150

**Advisory:** ENGT 101 or two years of high school drafting.

**Transfers to:** CSU

This course is for students pursuing degrees or certificates in Architecture, Civil, or the Engineering Design Drafting Program, and for those who wish to enhance their computer aided design (CAD) skills for workplace productivity. The course is an intermediate application study in CAD, drafting, and graphics using the latest revisions of CAD software. Combined with previously learned technical drafting conventions and basic CAD operational skills, students will use CAD software to produce detailed drawings that involve models, 2D and 3D objects, data attributes, and scales. Emphasis is placed on working with multiple drawing files using external files to create mechanical, architectural, and civil projects.

Hours: 54 Lecture. 54 Lab.

### **ENGT 231**

#### **Product Design and Presentation**

**Units:** 4

**Prerequisite:** ENGT 250

**Advisory:** ENGT 122, ENGT 150 or ENGT 170 or appropriate CADD experience, ENGT 200

**Transfers to:** CSU

This advanced course focuses on research, product proposal and design, illustration for presentation, and manufacturing processes. Using computer aided design (CAD), students apply previously learned skills to develop a product design, graphic illustrations of mechanical applications for use in manufacturing, and engineering support presentation documents.

Hours: 54 Lecture. 54 Lab.

### **ENGT 250**

#### **Introduction to Parametric Modeling 3D Applications for Mechanical Design**

**Units:** 4

**Advisory:** ENGT 101, ENGT 105, ENGT 122

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units of credit for the following courses: ENGT 150, ENGT 250, and ENGT 270.

This course presents introductory applications of 2D and 3D computer aided design drafting (CADD)

and an introduction to parametric modeling and rapid prototyping utilizing the latest releases of Autodesk Inventor series, SolidWorks, and other parametric modeling software to produce solutions for mechanical applications. This course benefits all students in areas of study related to engineering, drafting, design and computer graphics and emphasizes CADD-generated 3D graphics using wire frame, surface modeling, and parametric solids.

Hours: 54 Lecture. 54 Lab.

### **ENGT 270**

#### **Advanced 3D Parametric Modeling and Prototype Applications**

**Units:** 4

**Prerequisite:** ENGT 122, ENGT 150 or ENGT 170, ENGT 200, ENGT 250

**Transfers to:** UC/CSU - UC credit limit.

The UC will grant a maximum of 8 units of credit for the following courses: ENGT 150, ENGT 250, and ENGT 270.

This course is an intensive study of 3D computer graphics and computer assisted design and drafting (CADD) utilizing the latest release of 3D software. This course benefits all students in areas of study related to engineering, drafting, design, and computer graphics. Students produce 3D, parametric, computer-generated virtual models incorporating mechanical design refinements. The course emphasizes the technological skills necessary to function as a design professional in order to apply 3D design graphics technology to the specific disciplines of mechanical engineering, machine drafting and design, manufacturing, animation, modeling, and illustration. Students are introduced to a variety of ways to produce prototype models directly from CADD-generated solid geometry. Students also take the Certified SolidWorks Associate (CSWA) industry standard test to check their proficiency, and receive certification upon passing.

Hours: 54 Lecture. 54 Lab.

### **ENGT 280**

#### **Advanced MicroStation for CADD & BIM Applications (Same as ARCH 280)**

**Units:** 4

**Prerequisite:** ENGT 170 or appropriate CADD work experience

**Advisory:** ENGT 101 or two years of high school drafting

**Transfers to:** CSU

This course is for students pursuing advanced study in MicroStation 3D parametric CADD (Computer Assisted Design and Drafting) and the BIM (Building Information Modeling) approach to building design using Bentley Architecture digital modeling applications. Students apply previously learned drafting conventions to produce 2D and 3D CADD- and BIM-generated mechanical and architectural drawings and virtual design models. This course benefits all students studying architecture, civil engineering



of all types, drafting, design and computer graphics. Emphasis is placed on the high technology skills necessary to function as a designer or CADD drafter.

Hours: 54 Lecture. 54 Lab.

#### **ENGT 290**

##### **Cooperative Work Experience / Internship for Drafting Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in their area of vocational interest and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is in drafting-related fields and who have completed or enrolled in the appropriate coursework. Instructor approval is needed to enroll in the course. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 60-300 Lab.

#### **ENGT 299**

##### **Directed Study in Engineering Design Drafting**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with

one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take Directed Study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 6-18 Lecture. 48-144 Lab.

## **ENGLISH AS A NEW LANGUAGE**

### **Division of Communications and Languages**

#### **ENLA 034**

##### **Intermediate-Advanced Composition**

**Units:** 3.5

**Prerequisite:** ENLA 024 or appropriate placement

A continuation of ENLA 024, this course is for ENLA students and emphasizes longer writings with more complicated sentence patterns leading up to a basic essay. Students focus on both thematic and rhetorical modes of composition while they practice topic sentences, thesis statements, subordination, and transitional expressions. This course is offered on a pass/no pass basis and is not applicable to the degree.

Hours: 54 Lecture. 27 Lab.

#### **ENLA 100**

##### **Advanced Composition**

**Units:** 3.5

**Prerequisite:** ENLA 034

**Transfers to:** UC/CSU

ENLA 100 is the highest-level course of the ENLA writing sequence and an ENLA student's gateway in to English 101. As a result of taking this course, students will be able to utilize various stages of the writing process, MLA conventions of academic writing in several rhetorical modes (including a research paper), and advanced levels of grammatical and mechanical accuracy in their writing.

Hours: 54 Lecture. 27 Lab.

## **ENVIRONMENTAL TECHNOLOGY**

### **Division of Mathematics, Sciences, and Engineering**

#### **ET 110**

##### **Hazardous Waste Generation/Reduction/Treatment**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to educate students working in or seeking employment in the hazardous waste management field, with an overview of industrial processes and their generation of waste streams. Selected industries include electroplating, metal finishing, printed circuit board production, oil refining, chemical production, steel production, general manufacturing, printing and graphic reproduction, agriculture, and consumer services.

Hours: 54 Lecture.

#### **ET 120**

##### **Introduction to Alternative Energy Technology (Same as AET 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This introductory-level course provides students with a working knowledge of present-day energy systems, including an in-depth analysis of the design and installation of alternative energy systems. Topics will include solar electrical systems, wind electrical systems, solar water heating systems, wind mechanical systems, small hydro-electrical systems, geothermal energy, fuel cells, biomass, energy storage, and microgrids. Students will develop skills to construct an alternative energy system. The course is intended for students who are contemplating a career in the alternative energy industry.

Hours: 45 Lecture. 27 Lab.

#### **ET 121**

##### **Photovoltaic Systems Design and Installation (Same as AET 121)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

In this introductory course students examine and implement the design and installation of solar photovoltaic power systems, including the installation of a working solar photovoltaic power system. Students learn how to perform solar site evaluations, electrical load calculations, solar system size calculations, and installation techniques for grid-tie and off-the-grid photovoltaic systems. The course is designed to prepare students for the North American Board of Certified Energy Practitioners (NABCEP) entry-level exam, and is intended for students who are contemplating a career in the solar photovoltaic energy industry.

Hours: 45 Lecture. 27 Lab.

#### **ET 122**

##### **Advanced Photovoltaic Systems Design and Installation (Same as AET 122)**

**Units:** 3

**Advisory:** AET 121 or ET 121

**Transfers to:** CSU

This is the second course in the photovoltaic series in which students further examine and implement the design and installation of solar photovoltaic power systems. Students learn how to interpret the National Electrical Code (NEC) specifications concerning photovoltaic installations. Topics include code-compliant wiring of modules, inverters, charge controllers, batteries, grounding techniques, and related topics. Additional topics include the design and installation of large commercial photovoltaic systems. This course is intended for students who are contemplating a career in the solar photovoltaic energy industry.  
Hours: 45 Lecture. 27 Lab.

**ET 123****Wind Energy Systems Design and Installation (Same as AET 123)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

In this introductory course students examine and implement the design and installation of wind power systems, including the installation of a working wind generation power system. Students learn how to perform wind site evaluations, electrical load calculations, wind system size calculations, hydraulics fundamentals, basic aerodynamics, and installation techniques for wind power generation systems; in designing and installing wind power generation systems, students obtain skills for employment. This course is intended for students who are contemplating a career in the wind turbine power generation industry.  
Hours: 45 Lecture. 27 Lab.

**ET 124****Advanced Wind Energy Systems Design and Installation (Same as AET 124)****Units:** 3**Advisory:** AET 123 or ET 123**Transfers to:** CSU

This is the second course in the wind energy series in which students further examine and implement the design and installation of wind power systems. Students learn how to interpret the National Electrical Code (NEC) specifications concerning wind power installations. Topics include code-compliant wiring of modules, inverters, charge controllers, grounding techniques, and related topics. Additional topics include wind site evaluations, electrical load calculations, wind system size calculations, hydraulic fundamentals, basic aerodynamics, and installation techniques for large wind power generation systems. This course is intended for students who are contemplating a career in the wind turbine power generation industry.  
Hours: 45 Lecture. 27 Lab.

**ET 130****Health Effects of Environmental Hazardous Materials****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to educate students working in or seeking employment in areas that include health and safety responsibilities. The course provides an overview of how to identify and evaluate the hazards of chemical, physical, and biological agents that can be encountered in industrial operations, as well as waste disposal and remediation sites.  
Hours: 54 Lecture.

**ET 150****Hazardous Waste Management Applications****Units:** 4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide students working in or seeking employment in the environmental field with an overview of hazardous waste management and regulations. The course explains the hazardous waste regulatory framework and helps students develop research skills in the hazardous waste area. Emphasis is placed on the following topics: universal waste, generator compliance, site investigation and remediation, permitting, enforcement, liability, and storm water discharge. The course also provides opportunities for the hands-on application of regulations. These applications include preparing a hazardous waste manifest, labeling and storing containers, sampling and analysis, and preparing a Phase I environmental site assessment (ESA).  
Hours: 54 Lecture. 54 Lab.

**ET 181****Home Energy Management and Auditing (Same as AET 181)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students working in or seeking employment in the green energy field, with an overview of industrial energy management and auditing. Specifically, this course assists students in preparing a comprehensive energy audit and energy management program. Emphasis is placed on the following topics: types of energy audits, energy management and cost, benchmarking, energy performance, energy use

requirements, maximizing system efficiencies, optimizing energy input requirements, fuel and energy substitution, and energy audit instruments.

Hours: 54 Lecture.

**ET 182****Industrial Energy Management and Auditing (Same as AET 182)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students working in or seeking employment in the green energy field, with an overview of industrial energy management and auditing. Specifically, this course assists students in preparing a comprehensive energy audit and energy management program. Emphasis is placed on the following topics: types of energy audits, energy management and cost, benchmarking, energy performance, energy use requirements, maximizing system efficiencies, optimizing energy input requirements, fuel and energy substitution, and energy audit instruments.  
Hours: 54 Lecture.

**ET 200****Hazardous Materials Management Applications****Units:** 4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide students working or seeking employment in the hazardous materials management field with a general overview of the requirements and applications of federal, state, and local laws and regulations relating to hazardous materials. The course will emphasize compliance with Department of Transportation (DOT), Occupational Safety and Health Administration (OSHA) Hazard Communication, Superfund Amendments and Reauthorization Act (SARA) Title III Community Right-to-Know, underground tank, asbestos, Proposition 65, and air toxics regulations.  
Hours: 54 Lecture. 54 Lab.

**ET 230****Safety and Emergency Response****Units:** 4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide students working or seeking employment in the environmental

technology field with hands-on instruction in safety and emergency response to chemical and physical exposures at hazardous waste sites. Topics include hazard identification, emergency response planning, proper use and selection of personal protective equipment (PPE), site control and evaluation, handling drums and containers, field sampling and air monitoring, proper use of instruments, confined spaces, and emergency response including field exercises in the use of air-purifying respirators (APR) and self-contained breathing apparatuses (SCBA). This course satisfies the requirements for 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training under Occupational Safety and Health Administration (OSHA) Standard 1910.120 and confined space entry training under OSHA Standard 1910.146.  
Hours: 54 Lecture. 54 Lab.

**ET 240**  
**Solid Waste Management Applications**

**Units:** 4  
**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU  
This course is designed to provide students working or seeking employment in the solid waste management field with an overview of the solid waste industry and its components. Emphasis is placed on the various aspects of integrated waste management including: waste prevention, recycling, composting, incineration, landfilling, environmental sampling and monitoring, facility siting and permitting, and compliance with environmental, health and safety regulations.  
Hours: 54 Lecture. 54 Lab.

**ET 250**  
**Fundamentals of Safety and Health I**

**Units:** 3  
**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU  
This course is designed to introduce students to the field of occupational safety and health management and program development. Topics include instruction on federal, state and local agency legislation, and the application of labor and occupational safety and health regulations. The course content also includes familiarization with workers compensation/general liability insurance, accident investigation techniques, industrial hygiene, ergonomics, fire prevention, site and facility auditing, systems Safety, and program development. This course is for working supervisors, professionals,

or business owners responsible for worker safety or placement of workers compensation/general liability insurance, and is a requirement for an Associate of Science Degree in Environmental Technology and/or a Certificate of Achievement in Environmental Technology Health and Safety.  
Hours: 54 Lecture.

**ET 251**  
**Fundamentals of Safety and Health II**

**Units:** 3  
**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU  
This course is designed to introduce students to the supervisory and management functions of occupational safety and health and risk management. Topics include a review of federal, state, and local agency legislation; labor and occupational safety and health regulations; and workers' compensation insurance. The course content focuses on the elements of developing a safety and health program, behavior-based safety, workplace violence, terrorism preparedness, hazardous materials and waste management, the application of occupational safety and health design/compliance and regulations, and the development of a safety and health and loss prevention program (i.e., a quality assurance/quality control (QA/QC) policy). This course is for students pursuing a degree in Environmental Technology and/or a Certificate of Achievement in Health and Safety, and working professionals or business owners responsible for worker safety or risk management.  
Hours: 54 Lecture.

**ET 260**  
**Environmental Sampling and Analysis**

**Units:** 4  
**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU  
This course provides an overview of the techniques of sampling protocols for obtaining soil, air, surface water, and groundwater samples based on sampling protocols approved by the United States Environmental Protection Agency (EPA). In the lecture, emphasis is placed on aspects of the procurement of samples through the EPA-approved standard operating procedures and practices. In the laboratory, students gain practical knowledge and skills for the appropriate collection and handling of environmental samples.  
Hours: 54 Lecture. 54 Lab.

**ET 270**

**Wastewater Treatment Plant Operations I**

**Units:** 3  
**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU  
This is the initial course in a series of wastewater treatment courses designed to train students in the practical aspects of operating and maintaining wastewater treatment plants, emphasizing the use of safe practices and procedures. It is intended for students working or who seek employment in the wastewater treatment field. Topics include the role and responsibilities of a treatment plant operator, an explanation of why wastes must be treated, and detailed descriptions of the equipment and processes used in a wastewater treatment plant. Students learn to operate and maintain racks, screens, comminutors, sedimentation tanks, trickling filters, rotating biological contactors, package-activated sludge plants, oxidation ditches, ponds, and chlorination facilities. Students also learn how to analyze and solve operational problems and perform mathematical calculations related to wastewater treatment process control.  
Hours: 54 Lecture.

**ET 271**  
**Wastewater Treatment Plant Operations II**

**Units:** 3  
**Prerequisite:** ET 270  
**Transfers to:** CSU  
This is the second course in a series of wastewater treatment courses designed to train students in the practical aspects of operating and maintaining wastewater treatment plants, emphasizing the use of safe practices and procedures. It is intended for students working or who seek employment in the wastewater treatment field. Topics include conventional activated sludge processes, sludge digestion and solids handling, effluent disposal, plant safety and good housekeeping, plant and equipment maintenance, analysis and presentation of data, and records and report writing. Students also learn how to analyze and solve operational problems and to perform mathematical calculations related to wastewater treatment process control.  
Hours: 54 Lecture.

**ET 272**  
**Advanced Wastewater Treatment**

**Units:** 3  
**Prerequisite:** ET 271  
**Transfers to:** CSU  
This is the third course in a series of wastewater treatment courses designed to train students in the practical aspects of operating and maintaining wastewater treatment plants, emphasizing the use of safe practices



and procedures. It is intended for students working or who seek employment in the wastewater treatment field. Topics include detailed descriptions of the equipment and advanced treatment processes used for odor control, pure oxygen-activated sludge treatment, solids removal from secondary effluents, residual solids management, enhanced biological control (including nitrogen and phosphorus removal), and wastewater reclamation. This course focuses on actual operating procedures: Students learn to operate and maintain treatment plant instrumentation equipment and systems. Additionally, students learn how to analyze and solve operational problems and perform mathematical calculations relating to wastewater treatment process control. Hours: 54 Lecture.

#### **ET 273**

##### **Stormwater Management, Treatment & Controls**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide students working or seeking employment in the industrial stormwater management field with the skills necessary to manage stormwater activities at industrial sites. Such management activities include the ability to write stormwater plans, implement structural and non-structural best management practices, evaluate and design stormwater treatment systems, conduct laboratory testing, understand how to collect stormwater samples, evaluate low impact development methods, and understand the regulatory and political framework of stormwater management. Emphasis is placed on stormwater chemistry, water treatment, student-designed industrial treatment systems, auditing for compliance, monitoring of industrial effluent, interpretation of laboratory results, and how to apply data to achieve real reductions in effluent contaminated by industrial pollutants. Hours: 54 Lecture.

#### **ET 274**

##### **Industrial Waste Water Treatment**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide individuals, who are working in or seeking employment in the water management field, with the practical aspects of operating and maintaining industrial waste water treatment plants. Emphasis is placed on the following topics: role of the industrial waste water

treatment operator, types of industrial waste streams, industrial waste water regulations, sources of wastes and methods for preventing and minimizing wastes at the source, and industrial waste monitoring. The plant operations and maintenance topics that will be highlighted include the following: operating and maintaining flow measure equipment, preliminary treatment processes, physical-chemical treatment processes, pressure and gravity filters, physical treatment processes, treatment of metal waste streams, and safety procedures. Hours: 54 Lecture.

#### **ET 275**

##### **Water Treatment**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide students working or seeking employment in the water management field with the practical aspects of operating and maintaining water treatment plants. Topics include responsibilities of the water treatment plant operator, sources of water, reservoir management and intake structures, coagulation and flocculation, sedimentation and filtration, disinfection and corrosion control, and taste and odor control. Day-to-day operating procedures are highlighted in this course, with topics including regulation of flows, chemical use and handling, records and reports, plant maintenance, safety and security, emergency procedures, handling complaints, and energy conservation. Hours: 54 Lecture.

#### **ET 276**

##### **Water Distribution**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to provide students working or seeking employment in the water management field with the practical aspects of operating and maintaining water distribution systems. Topics include the role and duties of water distribution system operators, procedures for operating and maintaining clear wells and storage tanks, characteristics of distribution system facilities, operating and maintaining distribution systems, maintaining water quality, disinfecting water systems, and techniques for recognizing hazards and developing safe procedures and programs. Students also learn to analyze and solve problems associated with operating a distribution system. Hours: 54 Lecture.

#### **ET 277**

##### **Water Treatment II**

**Units:** 3

**Prerequisite:** ET 275

**Transfers to:** CSU

This advanced course in operating and maintaining a water treatment plant emphasizes safe and efficient work practices. Potable water reuse technologies are addressed. The objectives for this course are to prepare the student for the Grades III and IV Water Treatment Operator Certification exams administered by the California State Water Resources Control Board; thus, students learn more advanced calculations. In addition, material is presented on topics including but not limited to advanced water treatment processes, iron and manganese control, fluoridation, softening, trihalomethanes, demineralization, drinking water regulations (e.g., regulations established by the Safe Drinking Water Act, including amendments), handling and disposal of process wastes, and laboratory procedures. Finally, this course enhances students' understanding and imparts the skills needed to address California's future sustainable resource needs. Hours: 54 Lecture.

#### **ET 280**

##### **Green Building Design Principles (Same as AET 280)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students working in or seeking employment in the green building field, with an overview of the green building industry and its components. Specifically, this course assists students in preparing for the Leadership in Energy and Environmental Design Accredited Professional (LEED AP) examination, which is the most recognized professional accreditation for green building in the nation. Emphasis is placed on the six categories of design that green buildings must address for LEED certification: sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, and innovation and design process. Each of these categories are studied, with a focus on the significance of each particular credit. Hours: 54 Lecture.

#### **ET 290**

##### **Cooperative Work Experience/ Internship for Environmental Technology related fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under the supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in their area of vocational interest, and will meet performance objectives related to instruction above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of environmental technology, and who have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.  
Hours: 3 Lecture. 60-300 Lab.

**ET 299****Directed Study: Environmental Technology**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

# ELECTRICAL TECHNOLOGY

## Division of Career and Technical Education

**ETEC 101****Electrician Fundamentals**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course covers the practices, applications, terms, and components for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. The course covers general electrician training, laboratory and job site safety, the proper use of testing instruments, hand tools, power tools, knots, electrical drawing reading, trade practices, and an introduction to the National Electrical Code (NEC). Extensive, hands-on lab exercises are provided to reinforce these concepts.  
Hours: 45 Lecture. 27 Lab.

**ETEC 102****Applied Mathematics for Electricians**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course in mathematics for electricians is for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. The course is designed to help students become more effective, efficient users of the fundamental skills utilized in technical trades. Topics include units of measure and measurement tools; converting fractions, decimals, and percentages; graphs and charts; perimeter, area, and volume; and personal finance. Emphasis is placed on the practical application of these topics, and hands-on classroom activities reinforce these concepts.  
Hours: 54 Lecture.

**ETEC 103****Fundamentals of DC Electricity**

**Units:** 4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course in the fundamentals of direct current (DC) electricity is for students already

working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. The course covers DC electrical theory, including electrical safety, the basic principles of atomic structure, electrical quantities, static electricity, magnetism, induction, resistors, series circuits, parallel circuits, combination circuits, and DC motors and generators, formulas used in electrical theory, information regarding proper use and selection of hand tools, materials, and wiring as practiced in the electrical maintenance and construction industries. Resistive circuits are analyzed using Ohm's Law, the power equation and Kirchhoff's Voltage and Current Laws. Hands-on lab exercises reinforce these concepts.  
Hours: 54 Lecture. 54 Lab.

**ETEC 104****OSHA Workplace Safety**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed for students working as or seeking employment as an electrician by providing the required number of contact hours for certification in both the California and Federal Occupational Safety and Health Administration (OSHA) safety regulations, standard first aid, and CPR for the general industry and construction workplace. Upon completion of this course and passing the certification exam, students will receive a 30-hour OSHA training certificate of completion. The course fulfills the requirements for the American Red Cross certification in standard first aid, cardiopulmonary resuscitation (CPR), and automatic defibrillation (AED).  
Hours: 45 Lecture. 27 Lab.

**ETEC 105****Introduction to the National Electric Code**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course in the National Electrical Code (NEC) is for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. The course covers the NEC requirements for commercial, office, and light industrial wiring. Topics include the electrical layout and design of commercial buildings, feeder circuit calculations, branch circuit calculations, and circuit over current protection.  
Hours: 54 Lecture.

**ETEC 106****Electrical Drawings****Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course in electrical drawings is for students who are already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. This course is designed to help students comprehend and correctly interpret electrical drawings used in electrical and related construction trades.

Hours: 45 Lecture. 27 Lab.

**ETEC 107****Fundamentals of AC Electricity****Units:** 4**Prerequisite:** ETEC 102, ETEC 103**Transfers to:** CSU

This introductory course in the fundamentals of alternating current (AC) electricity, is for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. Emphasis is placed on the theory of the operation, physical properties, and characteristics of AC electrical/electronic circuits and devices. Students analyze circuits and solve problems using basic network analysis methods, and learn about the arrangement of circuit diagrams, proper identification of circuit/device symbols, and use of wiring schematics. Laboratory work provides experience with the design and test of basic electrical circuits, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment; hands-on lab exercises reinforce these concepts. The course requires previous coursework in direct current (DC) electricity and math, including right angle trigonometry.

Hours: 54 Lecture. 54 Lab.

**ETEC 108****Conductors, Grounding Systems, & Testing****Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course covers conductors, grounding systems, and testing, and is designed for students who are already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. Topics include the proper use of hand tools, wiring methods, conductor identification, splicing, termination, trade practices, and an introduction to the National

Electrical Code (NEC). Students study and interpret the NEC, paying particular attention to NEC requirements for grounding, grounding system components, principles of operation, design and fault current calculations, as well as local ordinances and regulations related to wiring installations and principal circuit requirements.

Hours: 45 Lecture. 27 Lab.

**ETEC 109****Fundamentals of Transformers****Units:** 3**Prerequisite:** ETEC 105, ETEC 107**Transfers to:** CSU

This introductory course in the fundamentals of transformers is for students who are already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. The course covers the complete electrical design of a commercial/industrial facility inclusive of general electrical, transformer, and electrical load calculations. All design work is completed to the applicable National Electrical Code (NEC). Students study and interpret the NEC, paying particular attention to NEC requirements for grounding, as well as local ordinances and regulations that cover wiring installations and principal circuit and grounding requirements. Extensive, hands-on lab exercises reinforce these concepts.

Hours: 45 Lecture. 27 Lab.

**ETEC 110****Conduit, Raceways, Panelboards, Switchboards, & Overcurrent Devices****Units:** 4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This introductory course covers conduit, raceways, panelboards, switchboards, and overcurrent devices, and is designed for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. Topics include how to properly calculate, layout and bend electrical metallic tubing (EMT) and rigid metal conduit (RMC); hand bending and the use of mechanical and machine benders per industry standards; and the function, operation, and characteristics of overcurrent protection. All design work is completed to the applicable National Electrical Code (NEC). Students study and interpret the NEC, as well as local ordinances and regulations that cover wiring installations and principal circuit requirements.

Hours: 54 Lecture. 54 Lab.

**ETEC 111****Motors, Motor Controllers and Process Controllers, Generators and Power Supplies****Units:** 4**Prerequisite:** ETEC 102, ETEC 103, ETEC 107**Transfers to:** CSU

This introductory course in the fundamentals of motors, motor and process controllers, generators, and power is for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their university education, or increase their skill levels. The course covers the operational theory and practices associated with motors and generators and power supplies. Students study and interpret the NEC, paying particular attention to NEC requirements for grounding, grounding system components, principles of operation, design and fault current calculations, as well as local ordinances and regulations related to wiring installations and principal circuit requirements covering wiring installations and principal circuit requirements. In addition, extensive hands-on lab exercises are provided to reinforce these concepts.

Hours: 54 Lecture. 54 Lab.

**ETEC 112****Specialty & Lighting Systems****Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of intermediate algebra concepts.**

**Transfers to:** CSU

This introductory course to specialty and lighting systems power is for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their university education, or increase their skill levels. The course covers National Electrical Code (NEC) requirements for grounding and bonding, and the complete electrical design of a commercial/industrial facility, including general electrical drawings; fire and security alarms; voice, data, television, signaling, and fiber optic systems; lighting protection and systems; and heating, air conditioning, and refrigeration. Students verify specialty system design work according to applicable National Electrical Code (NEC) requirements. In addition, extensive demonstrations are provided to reinforce these concepts.

Hours: 54 Lecture.

**ETEC 113****Electrical Cost Estimating****Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of intermediate algebra concepts.**

**Transfers to:** CSU

This introductory course in electrical cost estimating is for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their

university education, or increase their skill levels. The course provides an overview of electrical cost estimating, including billing of materials and listing procedures, and is most specifically intended for students preparing to enter electrical estimating occupations or electrical contracting work.  
Hours: 45 Lecture. 27 Lab.

**EETEC 114**  
**Personal Development & Jobsite Management**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of intermediate algebra concepts.**

**Transfers to:** CSU

This introductory course in personal development and jobsite management is for students already working as or seeking employment as an electrician, and who want to meet occupational goals, continue their university education, or increase their skill levels. Topics include personal development, working with others, effective communication, personal finance, personal employment benefits, personal growth, and workplace development, and as a result students acquire an understanding of attitudes and behaviors beneficial to success in vocational settings as well as everyday life.

Hours: 54 Lecture.

**EETEC 115**  
**Electronics & Digital Logic Circuits**

**Units:** 4

**Prerequisite:** ETEC 102, ETEC 103, ETEC 107

**Transfers to:** CSU

This introductory course in electronics and digital logic circuits is for students who are working as or seeking employment as an electrician, and who want to meet occupational goals, continue their education, or increase their skill levels. Topics include solid state devices and digital electronic principles used in the field of electronics, with emphases on the theory of operation, methods of fabrication, physical properties, and characteristics of semiconductor devices and circuits. Students analyze circuits and solve problems utilizing basic network analysis methods; laboratory work provides experience with the design and test of basic solid state device circuits and digital logic circuits, including signal tracing and troubleshooting, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment.  
Hours: 54 Lecture. 54 Lab.

## FIRE ACADEMY

### Division of Public Safety

**FAC 043**

**Advanced Fire Course**

**Units:** 0.148-2.962

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This is a variable format (2-40 Hours of Lecture; 2-40 Hours of Lab) course designed to keep fire service personnel informed of new laws and fire codes, current prevention procedures, recent developments in hazardous materials, stress on the firefighter, technology, community relations, physical fitness & wellness and other refresher training as may be necessary.

Hours: 2-40 Lecture. 2-40 Lab.

**FAC 050**

**Fire Instructor I**

**Units:** 2.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course provides the skills and knowledge needed for entry-level professional instructors to perform their duties safely, effectively, and competently. The curriculum is based on the 2012 edition of the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications. At the end of this course, candidates for Instructor I certification will be able to teach and deliver instruction from a prepared lesson plan utilizing instructional aids and evaluation instruments, adapt a lesson plan, and complete reporting requirements to the local jurisdiction.  
Hours: 45 Lecture.

**FAC 051**

**Fire Instructor II**

**Units:** 2.5

**Prerequisite:** FAC 050

This course provides the skills and knowledge needed for intermediate-level professional instructors to perform their duties safely, effectively, and competently. The curriculum is based on the 2012 edition of the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications, and the 2012 edition of NFPA 1403 Standard on Live Fire Training Evolutions. At the end of this course, candidates for Instructor II certification will be able to develop lesson plans and evaluation instruments, teach and deliver instruction, evaluate and coach other instructors, analyze resources, and formulate a program budget.  
Hours: 45 Lecture.

**FAC 054**

**Fire Investigation 1A: Basic Fire Investigation**

**Units:** 2.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course provides information on securing the fire scene and determining the origin and cause of the fire. Topics

include responsibilities of a fire investigator, securing the fire ground, conducting an exterior and interior survey, analyzing fire patterns, interpreting individual fire patterns, discriminating the effects of explosions, examining and removing fire debris, reconstructing the area of origin, and inspecting the performance of building systems. The 2014 edition of the National Fire Protection Association (NFPA) 1033 Standard Professional Qualifications for Fire Investigators is the basis for this course.  
Hours: 45 Lecture.

**FAC 055**

**Fire Investigation 1B: Evidence and Documentation**

**Units:** 2

**Prerequisite:** FAC 054

This course provides information on scene documentation and evidence collection/preservation. Topics include photographing the scene, diagramming the scene, constructing investigative notes, processing evidence and establishing chain of custody, processing victims and fatalities, selecting evidence for analysis, maintaining a chain of custody, preparing a fire investigation report, and disposing of evidence. The 2014 edition of the National Fire Protection Association (NFPA) 1033 Standard for Fire Investigator Professional Qualifications is the basis for this course.  
Hours: 36 Lecture.

**FAC 118**

**Firefighter I, Basic Fire Academy**

**Units:** 18

**It is advised that students have knowledge of elementary algebra.**

**Prerequisite:** FTEC 044, FTEC 101, FTEC 102, FTEC 103, FTEC 104, FTEC 105, FTEC 106

**Transfers to:** CSU

This course is designed for recently employed firefighters and other interested students. Topics covered include organization of the public and private fire service, characteristics and behavior of fire, fire hazards and firefighter safety, extinguishing agents and related extinguishing equipment, fire protection systems and water supply, incident command system, confined-space rescue awareness, building construction and assemblies, basic fire fighting tactics and strategy, fire prevention, hazardous materials, emergency care, wildland firefighting, rapid intervention, rescue systems, and physical fitness. This course meets the State Board of Fire Services (SBFS) requirements for designation as a "California Firefighter I Accredited Academy" (Accredited Regional Academy (ARA) by the California State Fire Marshal). Students who complete this course also receive California certification in Vehicle Extrication, Fire Control I, Fire Congrol II, Hazardous Materials First Responder Operational, Confined Space Rescue Awareness,



Rescue Systems I, S-110, S-130, S-190, Rapid Intervention Crew Tactics, and ICS-200. This course requires completion of a medical physical examination and includes arduous physical activity.  
Hours: 126 Lecture. 594 Lab.

#### **FAC 4305**

##### **Hazardous Material Identification**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is for fire department personnel and other interested students that want to learn about the current laws and regulations pertaining to the labeling of hazardous materials and the UN Hazardous Classifications. The National Fire Protection Association (NFPA) guidelines and the Department of Transportation (DOT) rules and regulations will be presented in this class.

Hours: 2-40 Lecture. 2-40 Lab.

#### **FAC 4310**

##### **Management Orientation**

**Units:** 0.5-3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

This course is designed for fire department personnel and other interested students who seek information related to fire service management and supervision. The organizational structure of a fire department, fire officer responsibilities, and establishing command at the scene of an emergency will be discussed.  
Hours: 9-40 Lecture. 0-54 Lab.

#### **FAC 4326**

##### **Paramedic Support Operations**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for fire department personnel and other interested students who may assist paramedic units at the scene of emergencies. Patient preparation, stabilization and paramedic coordination will be reviewed. Common terminology will be included. This course meets the Los Angeles County Emergency Medical Technician requirements for recertification as an Emergency Medical Technician in the State of California.

Hours: 2-20 Lecture. 2-20 Lab.

#### **FAC 4327**

##### **Fire Fighting Operations, Structures**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for fire department personnel and other

emergency responders who seek additional coursework in fighting structure fires. A review of basic firefighting tactics and strategy for occupancies such as dwellings, commercial occupancies, industrial occupancies, and special occupancies will be included. Emphasis will be placed on safety to personnel and crew cohesiveness.

Hours: 2-20 Lecture. 2-20 Lab.

#### **FAC 4328**

##### **Fire Fighting Operations, Mobile**

##### **Units**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for fire department personnel and other emergency responders who seek additional coursework in fighting fires where mobile units are burning. A review of basic firefighting tactics and strategy specifically for cars, trucks, buses, ships, planes and trains will be discussed. This course will also present information related to terrorist acts while utilizing mobile equipment. Emphasis will be placed on safety to personnel.

Hours: 2-40 Lecture. 2-40 Lab.

#### **FAC 4329**

##### **Fire Fighting Operations, Hazardous Materials**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for fire department personnel and other interested students who seek information related to response to fires where hazardous materials are present. A basic review of hazard classifications, response concerns when hazardous materials are present, and responder safety is discussed. This course will also present basic response issues related to terrorist acts involving hazardous materials.

Hours: 2-40 Lecture. 2-40 Lab.

#### **FAC 4330**

##### **Driving Techniques and Certification**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed to train firefighters and other interested students to drive emergency response vehicles that include fire engines, fire trucks and ambulances under emergency and non-emergency conditions. This course will include classroom discussion, driving demonstrations, and driving practice. This course may require students to provide the necessary driving permits needed through the DMV prior to class participation.

Hours: 2-20 Lecture. 2-20 Lab.

#### **FAC 4331**

##### **Pumping Techniques and Certification**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level, read college-level texts and have knowledge of elementary algebra concepts.**

This course is designed to train students to operate fire apparatus under emergency and non-emergency conditions. It integrates the physical properties of modern fire apparatus suppression systems, pump theory and operation, hydraulic calculations, water supply considerations, relay pumping principles, water shuttle operations, foam systems operation and apparatus maintenance and testing. This course will include classroom discussion, pumping demonstrations, and pumping practice.

Hours: 2-20 Lecture. 2-20 Lab.

#### **FAC 4335**

##### **Special Equipment Familiarization**

**Units:** 0.074-1.482

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is intended for fire department personnel and other interested students who want to learn more about specialized equipment used in today's fire service. Such equipment as the jaws of life, compressor units, lighting units, life-saving equipment and command equipment will be included.  
Hours: 2-20 Lecture. 2-20 Lab.

#### **FAC 4346**

##### **Fire Prevention 1A**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is the first of a two-course series designed to prepare Fire Service or other interested students to become a California Certified Fire Prevention Officer. This is one of the State Board of Fire Services accredited courses and applies to California Fire Service Training and Educational System certifications. Topics covered provide broad, technical overview of fire prevention codes, ordinances, inspection practices and key hazards including responsibilities and authority, occupancy classification & types of construction, Egress requirements, fire resistive assemblies, general fire safety provisions, principles and procedures for fire inspections.  
Hours: 40 Lecture.

#### **FAC 4347**

##### **Fire Prevention 1B**

**Units:** 2

**Prerequisite:** FAC 4346

This course is a second in the series of courses required for Fire Officer Certification as it relates to Fire Prevention. It is also designed for Fire Service personnel or other interested students to become a California Certified Fire Prevention Officer. This course focuses on the special hazards associated with flammable and combustible liquids and gases. Some topics of discussion include bulk storage and handling, transportation of flammable gases and liquids and more. Hours: 40 Lecture.

#### **FAC 4349**

##### **Fire Command 1A**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed to prepare Fire Service or other interested students to become a California Certified Fire Officer. This is one of the State Board of Fire Services accredited courses and applies to California Fire Service Training and Educational System certifications. This course provides instruction and simulation time pertaining to the initial decision and action processes at a working fire. Topics include the fire officer, fire behavior, fireground resources, operations and management. Hours: 40 Lecture.

#### **FAC 4350**

##### **Fire Command 1B**

**Units:** 2

**Prerequisite:** FAC 4349

This course is a continuation of Fire Command 1A and is designed to prepare Fire Service or other interested students to become a California Certified Fire Officer. This is one of the State Board of Fire Services accredited courses and applies to California Fire Service Training and Educational System certifications. This course provides the student with information on tactics, strategies and scene management for multi-casualty incidents, hazardous materials incidents and wildland fires. Each student also has the opportunity to increase his or her knowledge and skills by handling initial operations at these types of incidents through simulation and class activities. Hours: 40 Lecture.

#### **FAC 4361**

##### **Fire Command 1C I-Zone Fire Fighting for Company Officers**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This is a State Board of Fire Services accredited course in I-Zone fire fighting and elements of the Incident Command System (ICS) for Company Fire Officers. This addresses the three elements of wild land fire behavior including fuel, weather and topography and

fundamental elements of size-up as they relate to I-Zone firefighting. The duties and responsibilities of a Strike Team Company Officer and procedures for structure triage and protection are also addressed. This course is designed for firefighting personnel and other interested students who seek certification as a California State Certified "Fire Officer". Hours: 36 Lecture.

## **FINANCE**

### **Division of Business**

#### **FIN 101**

##### **Introduction to Financial Planning**

**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an elementary algebra course. It is also advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU

This course provides an overview of the fundamentals of financial planning, and is designed to provide students with tools needed to achieve their personal financial goals. Students will learn to make informed decisions related to spending, saving, borrowing, and investing by applying quantitative reasoning concepts. Course topics include the financial planning process, budgeting, cash flow, debt consolidation, investing, and retirement planning. Hours: 54 Lecture.

#### **FIN 102**

##### **Fundamentals of Financial Management and Investing**

**Units:** 3

**Prerequisite:** FIN 101

**Transfers to:** UC/CSU

This course will provide an introduction to financial management and investment decision making involving stocks, bonds, mutual funds, government securities, options, and real estate. Topics include asset allocation principles, modern portfolio theory, investment tools and strategies, diversification, and tax implications of investments. This course is designed for students interested in pursuing a finance certificate or entry-level position in financial planning. Hours: 54 Lecture.

## **FRENCH**

### **Division of Communications and Languages**

#### **FR 101**

##### **French I**

**Units:** 4.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an introduction to the essentials of French language: reading, listening, speaking, and writing skills. Various facets of French-speaking culture (history, philosophy, and politics) will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for those interested in learning to speak French as well as those seeking a degree in the French language. Hours: 72 Lecture. 27 Lab.

#### **FR 102**

##### **French II**

**Units:** 4.5

**Prerequisite:** FR 101 or completion of 2 years of high school French with a grade of "C" or better

**Transfers to:** UC/CSU

This course is a continuation to the essentials of the French Language: reading, listening, speaking, and writing skills. Various facets of French-speaking culture (history, philosophy, and politics) will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for those interested in continuing to learn to speak French as well as for those seeking a degree in the French language. Hours: 72 Lecture. 27 Lab.

#### **FR 201**

##### **French III**

**Units:** 4.5

**Prerequisite:** FR 102 or completion of three years high school French with a grade of "C" or better.

**Transfers to:** UC/CSU

This course stresses advanced conversational, reading, writing and translation skills. Emphasis is placed on understanding spoken French as well as on proficiency and accuracy in speaking French. The course will include an introduction to French literature as well as the reading of one novel in French to be determined by the instructor. Various facets of French culture, philosophy, politics and history will also be explored. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive

websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for students who wish to broaden their knowledge in French as well as for those seeking a degree in the French language.  
Hours: 72 Lecture. 27 Lab.

#### **FR 202 French IV**

**Units:** 4.5

**Prerequisite:** FR 201 or completion of four years of high school French with a grade of "C" or better.

**Transfers to:** UC/CSU

This course is a continuation of FR 201. The course stresses advanced conversational, reading, writing and translation skills. Emphasis is placed on understanding spoken French as well as on proficiency and accuracy in speaking French. The course will include an introduction to French literature as well as the reading of one novel in French to be determined by the instructor. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. Various facets of French culture, philosophy, politics and history will also be explored. This course is intended for those interested in continuing to learn to speak French as well as for those seeking a degree in the French language.  
Hours: 72 Lecture. 27 Lab.

#### **FR 299**

**Directed Study: French**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The

instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## **FIRE TECHNOLOGY**

### **Division of Public Safety**

#### **FTEC 044**

**Physical Fitness and Ability for the Firefighter**

**Units:** 3

**Students must be able to lift 75 pounds, drag a 150 pound drag dummy and use a sledge hammer in completion of a physical abilities test. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed to present in-service firefighters and interested students with information about conditioning and fire department physical ability test designs. The course includes manipulative drills needed to pass California physical abilities tests (PAT). This course will provide information on the most recently developed tests in Southern California, including the Candidate Physical Abilities Test (CPAT) and the Biddle Physical Ability Test (PAT). Students learn about firefighter wellness programs and review basic nutrition as well as current National Fire Protection Association (NFPA) standards pertaining to firefighter health and safety. Students must be able to perform basic firefighter activities including climbing, using sledge hammers, dragging 150-pound dummies, and wearing a self-contained breathing apparatus.  
Hours: 36 Lecture. 54 Lab.

#### **FTEC 045**

**Firefighter Entrance Examination Techniques**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed to prepare students to take a firefighter's entrance examination. Topics covered include a review of firefighter duties, employment requirements in the fire service, and the hiring process. Resumes, written examinations, oral interviews, and related topics are discussed.  
Hours: 54 Lecture.

#### **FTEC 101**

**Fire Protection Organization**

**Units:** 3

**It is advised that students be able to engage in written composition at a**

**college level and read college-level texts.**

**Transfers to:** CSU

This course provides students with an overview of fire protection issues. Topics include an introduction to the philosophy and history of fire protection and fire service; organization and function of public and private fire protection services; laws and regulations affecting fire service; and the role of fire departments as part of local government. Basic fire chemistry, fire protection systems, firefighting strategies, and possible career opportunities in fire-related fields are also presented.  
Hours: 54 Lecture.

#### **FTEC 102**

**Principles of Fire & Emergency Services Safety & Survival**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course introduces fire technology or other interested students to the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior changes throughout the emergency services. This course has been updated to meet the National Fire and Emergency Services Higher Education objectives as it pertains to firefighter safety and survival techniques used in today's fire service.  
Hours: 54 Lecture.

#### **FTEC 103**

**Fire Behavior and Combustion**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides fire technology or other interested students with an exploration of theories and fundamentals of how and why fires start, spread, and how they are controlled. An in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques will be explored.  
Hours: 54 Lecture.

#### **FTEC 104**

**Fire Prevention Technology**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide fire technology or other interested students with fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau,



use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

Hours: 54 Lecture.

#### **FTEC 105**

##### **Building Construction for Fire Protection**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides fire technology or other interested students with an understanding of the essential components used in building construction that directly relates to fire safety. The elements of construction and design of structures, factors when inspecting buildings, preplanning fire operations, and operating at fires will be discussed. The development and evolution of building and fire codes will be studied in relationship to past fires in residential, commercial, and industrial occupancies.

Hours: 54 Lecture.

#### **FTEC 106**

##### **Fire Protection Equipment and Systems**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides the fire technology student with information pertaining to the design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection and portable fire extinguishers.

Hours: 54 Lecture.

#### **FTEC 107**

##### **Hazardous Materials I**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides fire technology or other interested students with information pertaining to the first responder role when dealing with hazardous materials operations. Hazardous materials decontamination procedures will also be discussed. Classification of hazardous materials and National Fire Protection Association standards (NFPA 472) will be addressed.

Hours: 54 Lecture.

#### **FTEC 108**

##### **Hazardous Materials II**

**Units:** 3

**Prerequisite:** FTEC 107

**Transfers to:** CSU

This course provides the fire technology or other interested student with information pertaining to the handling, identification, firefighting practices, and the explosive hazards confronted with during a hazardous materials response.

The role of a Hazardous Material Technician and Specialist will be discussed. The types of hazardous materials that could be used during a terrorism event will be covered.

Hours: 54 Lecture.

#### **FTEC 109**

##### **Fire Fighting Tactics and Strategy**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides the fire technology or other interested students with information pertaining to the elements of the incident management system, evaluation of information management and critical incident factors including control of incident communications, basic strategy decisions, and the development of an incident action plan. Basic current fire ground strategies will also be explored in this course.

Hours: 54 Lecture.

#### **FTEC 110**

##### **Rescue Practices**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides fire technology or other interested students with a better understanding of rescue problems and techniques in the fire service field. Topics covered include emergency rescue equipment, toxic gases, chemicals, diseases, radiation hazards, and care of victims. Students will become prepared for emergency childbirths, respiration and resuscitation, auto extrication, and other emergency conditions throughout the course.

Hours: 54 Lecture.

#### **FTEC 111**

##### **Fire Hydraulics**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and possess the ability to add, subtract, multiply, and divide.**

**Transfers to:** CSU

This course provides the fire technology student with information applicable to fire service hydraulics, specifically pertaining to fire hose, friction loss and calculations for gallons per minute (GPM) on the fire ground. The student will study fire ground hydraulic formulas used to calculate needed fire flow for residential and commercial structures.

Hours: 54 Lecture.

#### **FTEC 112**

##### **Fire Apparatus and Equipment**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides the fire technology or other interested students with information pertaining to the design and operation of fire department apparatus. This includes components such as the engine, pump and drive train. Basic hydraulic calculations for operation and safe vehicle use will also be discussed. Topics addressed include the different types of fire apparatus and their function including wildland firefighting apparatus and municipal fire apparatus.

Hours: 54 Lecture.

#### **FTEC 114**

##### **Fire Investigation**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides the fire technology or other interested students with an understanding of determining causes of fires including accidental, suspicious, and incendiary. Topics covered include arson laws, field note taking, and fire cause. Also addressed are the recognition and preserving of evidence, the interviewing of witnesses and suspects, arrest and detention procedures, court demeanor, and the giving of court testimony.

Hours: 54 Lecture.

#### **FTEC 117**

##### **Fire Service Management, Safety, and Wellness**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for fire technology majors to provide the student with the concepts, theories and principles of fire service management. Emphasis is placed on the distinctions between management, supervision, and leadership. Fire service stress and safety management will be discussed and the national fire service standards will be presented.

Hours: 54 Lecture.

#### **FTEC 150**

##### **Truck Academy Operations**

**Units:** 2.5

**Prerequisite:** FAC 118 or Firefighter 1 certification or completion of a CSFM approved Fire Academy

**Transfers to:** CSU

This course is for veteran firefighters or other interested students that want to enhance their knowledge and ability as it pertains to the fire ground operations

associated with truck company tactics and strategy. Basic roof construction, vertical and horizontal ventilation, forcible entry, positive and negative ventilation, search and rescue, thermal imaging technology, firefighter safety and survival, rapid intervention tactics, elevator rescue and related truck company operations will be discussed. Hours: 25 Lecture. 60 Lab.

#### **FTEC 290**

##### **Cooperative Work Experience/ Internship for Fire Technology Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in the Fire Technology field under supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in the area of Fire Technology and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of fire technology and have completed or enrolled in the appropriate coursework."Contact the CWE office regarding re-enrollment procedures".

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.  
Hours: 3 Lecture. 60-300 Lab.

#### **FTEC 299**

##### **Directed Study: Fire Technology**

**Units:** 1-3

**Transfers to:** CSU  
Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title 5 regulations with one unit of credit awarded for 54 hours

of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## **FILM, TELEVISION, AND ELECTRONIC MEDIA**

### **Division of Communications and Languages**

#### **FTVE 115**

##### **Introduction to Screenwriting (C-ID: 100)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is an introductory course in narrative script writing for film and episodic television. Emphasis on basic screenplay structure, characters, conflict, theme, and technical script formatting in the development of a short screenplay. Promotes representation of race/ethnicity, gender, class, sexual orientation, and ability.

Hours: 54 Lecture.

## **FIRST YEAR SEMINAR**

### **Division of Library and Instructional Support**

#### **FYS 101**

##### **Beyond Words: Visual and Performing Arts in Action**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a common selected theme in depth. This seminar course will approach the selected theme as a conduit for understanding the visual and performing arts. FYS 101 will examine the artist's use of an abstracted language that moves beyond words to the visual, aural, and kinesthetic. Students are invited to explore creativity, innovation, self-expression, imagination, close observation, introspection, and inquisitiveness as artistic responses to

the world around us. This seminar will then examine how visual and performing artists give shape to these responses by applying skill and ingenuity. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in a variety of media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in dance, design, film, music, theater, and visual art.  
Hours: 54 Lecture.

#### **FYS 103**

##### **Science in Society**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a theme in depth. FYS 103 will explore the selected theme through the lens of the natural sciences, their effects on society, and how the pursuit of science has been influenced by social forces. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in various media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in the natural sciences.  
Hours: 54 Lecture.

#### **FYS 104**

##### **Understanding the SELFi: Diversity and Human Experiences**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a common selected theme in depth. This seminar course will approach the selected theme as a conduit for understanding diversity and human experiences. FYS 104 will explore major themes, problems, theories, and ideologies from both past and present. This seminar encourages student inquiry and analysis into subject matter which continue to shape their lives today. This course challenges students to utilize primary skills found in each discipline in order to explain human experiences, examine historical and contemporary theories, and facilitate their contributions to their

communities at large. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in various media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in behavioral and social sciences.  
Hours: 54 Lecture.

### **FYS 105**

#### **Voices, Ideas, and the Power of Language**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a theme in depth. This seminar course will consider the selected theme through the lens of written and oral communication. FYS 105 will explore the etymology, analysis, and practice of how we use symbols in society, both orally and in writing. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in various media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in language, literature, and verbal expression.  
Hours: 54 Lecture.

## **GRAPHIC DESIGN**

### **Division of Arts and Cultural Programs**

#### **GDSN 110**

##### **History of Graphic Design**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of historical developments in graphic design from the Industrial Revolution to the Digital Age. Students will analyze the development of graphic design, its origins as a career [and] technical education (CTE) area, and the influences of the political, social, and economic climates of the different historical periods. The course provides a historical framework for analyses of current and future trends in graphic design, and explores various historical art and design movements in order to recognize and evaluate the contexts of fine art, design, and science.

Hours: 54 Lecture.

#### **GDSN 150**

##### **Typography**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** NART 285

**Transfers to:** UC/CSU

This course is intended for students interested in the history, theory and practice of typography as it applies to graphic design, advertising, and other areas of design and visual communication. Students learn and practice hand-rendered and mechanical aspects of typography, and how typography attracts, informs, educates, inspires, and creates retaining impressions—as well as how typography modifies human actions and behavior. Through discussions, exercises, and projects, students develop an understanding leading to clearer interpretations of typography and its role in human history, communication, design, and art. Activities include the history and principles of typography, letter structure, typeface selection, fundamentals of typesetting and introductory typographic layout.  
Hours: 36 Lecture. 72 Lab.

#### **GDSN 151**

##### **Typographic Design**

**Units:** 3

**Prerequisite:** GDSN 150

**Advisory:** NART 285

**Transfers to:** UC/CSU

This course is intended for students interested in the theory and practice of letterforms and typography as they apply to graphic design, advertising, and other areas of design and visual communication. Focus is placed on the compositional use of type as a principal design element and its relationship to issues of visual hierarchy, readability, and page structure. Students continue their exploration of typography as an expressive visual form through typographic design projects.  
Hours: 36 Lecture. 72 Lab.

#### **GDSN 162**

##### **Introduction to Web Design: User Experience Design (UX)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** NART 285

**Transfers to:** UC/CSU

This introductory web design course is a practical introduction for students interested in user experience (UX) and visual interface design, and the challenges they pose for graphic designers. Using web design applications (like Adobe *Dreamweaver* and *Photoshop*), students are introduced to the steps involved in creating a basic, functional, and

interactive website. Topics include aesthetic design considerations, front-end technology, interaction, UX, user interface (UI) and cascading style sheets (CSS) design, file optimization, and website principles and practices. This course is for students interested in a degree or certificate in graphic design and those interested in web design and interactive design.  
Hours: 36 Lecture. 72 Lab.

#### **GDSN 163**

##### **Intermediate Web Design: Interactive Design**

**Units:** 3

**Prerequisite:** GDSN 162

**Advisory:** NART 285

**Transfers to:** UC/CSU

Focusing on usability, this intermediate class offers broader and more advanced instruction related to the “front-end” visual design and aesthetics of interactive media, as well as the technical and design requirements of designing a fully functional website. Using intermediate web design applications (like Adobe *Dreamweaver*), students are instructed in the techniques needed to maximize the quality of user experience (UX). Students continue to perfect the creation of a fully functional website using multifaceted applications. Topics include interactive design software, front-end aesthetics, technology, interaction, UX, user interface (UI) and cascading style sheets (CSS) design, the principles and elements of digital design and aesthetics, and interactive design business practices. This course is for students interested in a degree or certificate in graphic design and those interested in expanding their knowledge of web design and interactive design.  
Hours: 36 Lecture. 72 Lab.

#### **GDSN 164**

##### **Digital Illustration Design**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** NART 285

**Transfers to:** UC/CSU

This introductory course is an introduction to graphic design and uses vector software (like Adobe *Illustrator*) as the principal digital tool. Topics include the principles and elements of design, typography, color, shape stroke, illustration techniques, page layout design, as well as introductory critical concepts and professional practices employed by graphic designers. This course includes exercises, projects, and portfolio building with an emphasis on professional standards. This course is for students interested in a degree or certificate in graphic design as well as those interested in 2-dimensional (2D) design and layout applications employed as tools by graphic designers.  
Hours: 36 Lecture. 72 Lab.

**GDSN 165****Branding and Identity Design****Units:** 3**Prerequisite:** GDSN 164**Advisory:** NART 285**Transfers to:** CSU

This course is an exploration of branding and identity design, a sub-discipline of graphic design. Topics include the research and development of trademarks and logos for clients, the principles and elements of design, typography, color, shape stroke, illustration techniques, and page layout design, as well as intermediate and advanced critical concepts and professional practices employed by graphic designers. This course includes portfolio building with an emphasis on professional standards. This course is for students interested in a degree or certificate in graphic design as well as those interested in 2-dimensional (2D) design and layout applications employed as tools by graphic designers.

Hours: 36 Lecture. 72 Lab.

**GDSN 172****Publication Design****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** NART 285**Transfers to:** CSU

This introductory course is an exploration of publication design, a sub-discipline of graphic design and uses page-layout software (like Adobe *InDesign*) as the principal digital tool. Topics include the principles and elements of design, page composition, creative use of typography, color, imagery and the grid, and discussion of output and pre-press considerations for print and digital distribution, as well as current methods and styles, critical concepts, and professional practices employed by graphic designers. This course includes portfolio building, with an emphasis on professional standards.

Hours: 36 Lecture. 72 Lab.

**GDSN 174****Packaging Design****Units:** 3**Prerequisite:** GDSN 164**Advisory:** NART 285**Transfers to:** CSU

In this introductory course, students will use software applications employed as tools by graphic designers for 2-dimensional (2D) and 3-dimensional (3D) surfaces. The course is a project-driven exploration of packaging design, which is defined as stylized functional design for carrying, protecting, or presenting a product. Topics include the principles and elements of design, current technical and creative methods and styles employed by package designers, sustainability, advanced critical concepts, and professional practices. This course includes portfolio

building, with an emphasis on professional standards.

Hours: 36 Lecture. 72 Lab.

**GDSN 178****Digital Imaging Design (C-ID: ARTS 250)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** NART 285**Transfers to:** UC/CSU

This introductory graphic design course uses bitmap software as the principal digital tool. Topics include the principles and elements of design, typography, color, photo/raster/bitmapped-based scanning, vector graphic integration, time-based design, image formats, optimization, retouching, adjustments, compositing, blending, color, conceptual, narrative and time-based techniques, technical and creative methods and styles employed by graphic designers, introductory critical concepts, and professional practices. The course includes exercises, projects, and portfolio building, with an emphasis on professional standards. This course is for students interested in obtaining a degree or certificate in graphic design or transfer, and those seeking to pursue a career in graphic design or related professions.

Hours: 36 Lecture. 72 Lab.

**GDSN 179****Advanced Digital Imaging Design****Units:** 3**Prerequisite:** GDSN 178**Advisory:** NART 285**Transfers to:** UC/CSU

This course is for students interested in a degree in graphic design and/or those interested in advanced 2-dimensional (2D) design and layout applications employed as tools by graphic designers. This course is an advanced, project-driven exploration of graphic design, and uses 2D design and layout application software (like Adobe *Photoshop*) as the principal digital tool. Topics include photo montage, compositing, collage, advanced conceptual and narrative techniques, current technical and creative methods and styles employed by graphic designers, advanced critical concepts, and professional practices. The course includes portfolio building, with an emphasis on professional standards.

Hours: 36 Lecture. 72 Lab.

**GDSN 290****Cooperative Work Experience/ Internship For Graphic Design****Related Fields****Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** NART 285**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under the supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in their area of vocational interest, and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of graphic design and have completed or enrolled in the appropriate coursework. The course may be taken once and repeated for a maximum of 16 units. Contact the Cooperative Work Experience Education (CWEE) office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours  
Hours: 3 Lecture. 60-300 Lab.

**GDSN 299****Directed Study in Graphic Design****Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** NART 285**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.



# GEOGRAPHY

## Division of Mathematics, Sciences, and Engineering

### GEOG 101

**Introduction to Physical Geography (C-ID: GEOG 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts and have a knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This general education course introduces students to the natural processes that shape the earth. Weather and climate, landforms and volcanoes, glaciers, rivers, and coastal phenomena are among the topics explored. This course is for any students interested in the physical processes that shape land masses.  
Hours: 54 Lecture.

### GEOG 101L

**Introduction to Physical Geography Laboratory (C-ID: GEOG 111)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level, read college-level texts and have a knowledge of elementary algebra concepts.**

**Prerequisite/Corequisite:** GEOG 101

**Transfers to:** UC/CSU

The physical geography laboratory is designed to acquaint students with the methods, techniques, and procedures used by geographers in the study and analysis of the physical environment. Students use maps, the Internet, and other tools to work with real-world geographic data. This course fulfills the general education lab requirement in physical sciences when taken with or after the Introduction to Physical Geography course (GEOG 101).  
Hours: 54 Lab.

### GEOG 102

**Introduction to Cultural Geography (C-ID: GEOG 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This general education course introduces students to the basic elements of culture. Population growth, migration, ethnicity, language, religion, folk and popular culture, and settlement forms are among the topics presented. This course may be of interest to students considering the fields of elementary school teaching, ecology, or social science, or travel-related vocations.  
Hours: 54 Lecture.

### GEOG 103

**World Regional Geography (C-ID: GEOG 125)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course explores the world's geographic regions, including Sub-Saharan Africa, North Africa, Southwest Asia, China, Southeast Asia, Middle America, South America, Japan, Europe, and Russia. The course describes the cultural, economic, and environmental aspects of each of these geographic regions. It provides a geographic perspective that enhances global awareness and geographic literacy.  
Hours: 54 Lecture.

### GEOG 299

**Directed Study: Geography**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

### GEOG 310

**Environmental Geography**

**Units:** 3

**Prerequisite:** ENGL 201 or ENGL 201H, GEOG 101

This upper division General Education course is designed for students pursuing a bachelor of science degree within the California Community College system. This course examines how the environment is impacted by human activity in different geographical regions and how the environment responds. Topics include global cycles and systems of the air, water and soil,

and the effects of human activity on the environment and living systems. Case studies will be used to investigate specific environmental issues.  
Hours: 54 Lecture.

# GEOLOGY

## Division of Mathematics, Sciences, and Engineering

### GEOG 150

**Physical Geology (C-ID: GEOG 100)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This introductory course covers the principles of geology, with emphasis on Earth processes, and fulfills the physical science general education requirement. The course focuses on the internal structure and origin of the Earth and the processes that change and shape. Earthquakes, volcanoes, oil, beaches, tsunamis, rocks, rivers, glaciers, plate tectonics, minerals, and continent and mountain building are among the topics that are explored.  
Hours: 54 Lecture.

### GEOG 151

**Physical Geology Laboratory (C-ID: GEOG 100L)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Prerequisite/Corequisite:** GEOG 150

**Transfers to:** UC/CSU

This lab engages students with a hands-on review of the principles presented in GEOG 150 and their application to everyday life. Laboratory exercises will include but are not limited to the identification of minerals; igneous, metamorphic, and sedimentary rocks; topographic and geologic map exercises demonstrating the work of water, wind, ice, and gravity; and the effects of tectonic activity.  
Hours: 54 Lab.

### GEOG 152

**Historical Geology (C-ID: GEOG 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This introductory course covers the history of Earth and the life it supports. Topics include geologic dating, global tectonics, stratigraphy, fossils, biological evolution, the planet's origin, and the processes that have influenced

paleogeography during the past 4.6 billion years.

Hours: 54 Lecture.

### **GEOL 152L**

#### **Historical Geology Lab (C-ID: GEOL 110L)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Prerequisite/Corequisite:** GEOL 152

**Transfers to:** UC/CSU

This lab engages students with a hands-on review of the principles presented in GEOL152. Topics include geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin, and the processes that have influenced paleogeography during the past 4.6 billion years.

Hours: 54 Lab.

### **GEOL 299**

#### **Directed Study: Geology**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## **GEOGRAPHIC INFORMATION SYSTEMS**

### **Division of Career and Technical Education**

### **GIS 120**

#### **Introduction to Geographic Information Systems and Spatial Analysis**

**Units:** 4

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an intermediate algebra course.**

**Advisory:** CIT 101

**Transfers to:** UC/CSU - UC credit limit.

UC will receive credit for only one of the following courses: GIS 120 or GIS 220

This course introduces fundamental concepts of geographic information and spatial analysis. Using industry standard geospatial application tools including geographic information systems (GIS), global positioning systems (GPS), and small unmanned aerial vehicle (sUAVs), students perform spatial analysis in various disciplines including but not limited to business, public safety, health, politics, civil engineering, and environmental, social, biological and geological sciences. Students learn how to organize geospatial data; visualize spatial patterns by aggregating numbers by areas, analyzing ratios and proportions, generating scatterplots, qualifying volumes and areas, and performing map algebra; and interpret correlations or suitable locations based on provided or researched criteria.

Hours: 54 Lecture. 54 Lab.

### **GIS 130**

#### **Field Data Applications for GIS**

**Units:** 4

**Prerequisite:** GIS 120

**Transfers to:** CSU

This course provides students and working professionals an expanded hands-on study on field data collection and methods using various geospatial technology including Global Positioning Systems (GPS) and sUAV (small unmanned aerial vehicles) for applications in Geographic Information Systems (GIS) and Remote Sensing (RMS). Experience in using field data collection enhances GIS technician and analyst employability. Students will research real world applications for public safety, public works, digital humanities and various sciences. This course will include off-campus field trips.

Hours: 54 Lecture. 54 Lab.

### **GIS 150**

#### **Small Unmanned Aircraft Systems Procedures and Regulations**

**Units:** 1.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course prepares the student to pass the FAA Aeronautical Knowledge Test for a Remote Pilot Certificate. Material covers subjects areas in the Part 107 Aeronautical Knowledge Test

including aerodynamics, aircraft performance, navigation, weather, and aviation regulations. Flight workflow demonstration prepares the student in sUAS operation and flight planning with an overview of trending applications including videography, survey mapping, public safety, and biology.

Hours: 18 Lecture. 27 Lab.

### **GIS 220**

#### **GIS Applications**

**Units:** 4

**Prerequisite:** GIS 120

**Advisory:** CIT 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: GIS 120 or GIS 220

This course covers advanced applications of geographic information systems (GIS), including digitizing with topology, georeferencing "as-built," and deriving new spatial data by importing computer aided drafting (CAD) drawings. Students learn how to distinguish the difference and value of raster data versus vector data, perform new trends in GIS including processing new raster data with photogrammetry of imagery collected by small unmanned aircraft vehicles (sUAVs), and create mobile applications for field data collection (i.e., fire hydrant inventory). The course may include field trips to industry events and to attend off-campus survey field exercises.

Hours: 54 Lecture. 54 Lab.

### **GIS 221**

#### **Cartography Design and Geographic Information Systems**

**Units:** 4

**Prerequisite:** GIS 120

**Transfers to:** CSU

GIS plays an important role in many disciplines, and improves the understanding of particular kinds of information through visual interpretation. This course is for students who want a better understanding of methods to effectively portray information spatially using conventions of patterns, colors and symbology. Students are introduced to the history of map interpretation, map projections, scales, map accuracy, and layout conventions for publication in reports or large formats at emergency operations center. The course may include field trips for students to visit industry user meetings.

Hours: 54 Lecture. 54 Lab.

### **GIS 222**

#### **GIS for Civil Engineering and Public Works**

**Units:** 4

**Prerequisite:** GIS 120

**Transfers to:** CSU

This course uses GIS software and cloud services as analytical and informational tools for engineers, maintenance planners, and facility managers to aid in civil engineering, facilities management, systems evaluation, maintenance, and



asset management of public works utilities or capital improvement projects. Students perform hydrological and volumetric calculations by using surface models, sizing public works infrastructure based on land use, zoning and population data, and managing large-scale construction projects and public works infrastructure based on asset management and maintenance principles. The course includes data collection workflow using small unmanned aerial vehicle (sUAV) technology, photogrammetry, and the production of professional web and mobile field data collection applications.

Hours: 54 Lecture. 54 Lab.

### **GIS 230**

#### **Geographic Information Systems (GIS) in Environmental Technology**

**Units:** 3

**Prerequisite:** GIS 120

**Transfers to:** CSU

Environmental technicians collect, manage, manipulate and interpret environmental data using geographic information systems (GIS). This course will prepare students to integrate spatial technologies and environmental information in various disciplines in environmental technology, biology, planning, landscape architecture, engineering, geology, archaeology, and related fields. Practical GIS exercises engage the student with industry-used technologies including global positioning systems (GPS), remote sensing, and small unmanned aerial vehicles (sUAVs) in activities designed to increase comprehension of the concepts, and skills they need to become marketable in their chosen environmental fields. Possible day field trips are scheduled to visit local industries and for field work.

Hours: 36 Lecture. 54 Lab.

### **GIS 280**

#### **Geospatial Programming and Web Services**

**Units:** 4

**Prerequisite:** GIS 120

**Transfers to:** CSU

Knowledge of a scripting language is a highly desired skill for geographic information system (GIS) technicians. This course teaches how to automate GIS tasks by applying common industry scripting language (e.g., Python or Model Builder). Advanced database management methodologies for spatial data analysis and development of GIS applications will also be covered. Upon completion, students will perform programming fundamentals effectively, providing easier interfaces for end users.

Hours: 54 Lecture. 54 Lab.

### **GIS 281**

#### **Crime Mapping and Analysis**

**Units:** 4

**Advisory:** CIT 101

**Transfers to:** CSU

Crime mapping plays an important role in almost any form of crime analysis and can improve our understanding of the important relationships between people, location, time, and crime. As a result, geographic information systems (GIS) has become an essential tool used by crime analysts to discover crime patterns, implement corrective strategies, optimize resource allocation and to develop crime prevention measures. Students will use ArcGIS to analyze crime series, conduct problem analysis, study crime trends, and address deployment issues as they relate to decision making in law enforcement. Students should have a working knowledge of Windows to be successful in this course.

Hours: 54 Lecture. 54 Lab.

### **GIS 290**

#### **Cooperative Work Experience / Internship for Geographic Information Systems Related Fields**

**Units:** 1-4

**Prerequisite:** GIS 120

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of GIS and have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 60-300 Lab.

### **GIS 299**

#### **Directed Study in Geographic Information Systems**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic

arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take Directed Study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## **HEAT AND FROST**

### **Division of Career and Technical Education**

#### **HEFR 040**

##### **Insulation Industry Orientation**

**Units:** 2.5

**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices. It is advised that students be able to comprehend precollegiate texts and have a knowledge of elementary algebra concepts.**

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Topics include orientation to the trade, industry safety, jobsite safety, insulation, pipe systems, the Occupational Safety and Health Association (OSHA), refinery safety, boom and scissor lift safety, and duct systems.

Hours: 40 Lecture. 40 Lab.

#### **HEFR 041**

##### **Mechanical Piping Systems**

**Units:** 2.5

**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices**

**Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Topics include insulation materials, techniques, finishes, piping systems, fireproofing, hand tools, fall protection, and equipment used in the field.

Hours: 40 Lecture. 40 Lab.

#### **HEFR 042**

##### **Boiler Insulation**

**Units:** 2.5

**Enrollment limited to State Indentured Heat and Frost Insulator**

**Union Apprentices****Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Topics include boilers, insulating techniques, stacks, breechings, Hy-Rib lath insulation, finishing, shipyard orientation, pen welding, safety, first-aid, confined spaces, and fittings.  
Hours: 40 Lecture. 40 Lab.

**HEFR 043****Construction Mathematics****Units:** 2.5**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices****Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Mathematical operations commonly used in the construction trade are reviewed and applied. Topics include whole numbers, fractions, decimals, basic geometry functions, curves and angles, drawings, estimating, energy appraising, insulation certifications, and measurements.  
Hours: 40 Lecture. 40 Lab.

**HEFR 044****Mechanical Piping Insulation****Units:** 2.5**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices****Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Topics include heat transfer, general insulating methods, materials, application of insulation materials, coatings, coverings for pipes and fittings, attachment methods, mold recognition and abatement, and finishing for pipes in various thermal ranges.  
Hours: 40 Lecture. 40 Lab.

**HEFR 045****Foam & Firestopping Insulation****Units:** 2.5**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices****Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Topics include metal cutting, fittings, band saws, foam materials, spray equipment operations, firestopping insulation, and maintenance and repair of foam application equipment.  
Hours: 40 Lecture. 40 Lab.

**HEFR 046****Blueprint Reading****Units:** 2.5**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices****Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Topics include introduction to blueprint reading, general arrangement, symbols, industry standards, insulation drawings, isometric drawings, industry certifications, and shop drawings.  
Hours: 40 Lecture. 40 Lab.

**HEFR 047****Prefabricated Buildings****Units:** 2.5**Enrollment limited to State Indentured Heat and Frost Union Apprentices****Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the heat and frost insulators industry. Topics include insulation, the design of walls, prefabricated industry panels, prefabricated metal buildings, hazardous materials, and storage tank insulation.  
Hours: 40 Lecture. 40 Lab.

**HEFR 048****Firestop Applications****Units:** 2.5**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices****Prerequisite:** HEFR 040

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the insulation and firestop industry. Topics include layout, fabrication, installation, maintenance and repair procedures for firestopping systems on mechanical, electrical, and plumbing penetrations.  
Hours: 40 Lecture. 40 Lab.

**HEFR 049****Advanced Life Safety Firestop Applications****Units:** 2.5**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprentices****Prerequisite:** HEFR 040 and HEFR 048

This course is designed to meet the needs of indentured apprentices with the State of California who are interested in the insulation and firestop industry. Topics include advanced layout, fabrication, installation, and maintenance and repair procedures for firestopping systems on mechanical, electrical, and plumbing penetrations.  
Hours: 40 Lecture. 40 Lab.

**HEFR 290****Cooperative Work Experience in Heat and Frost Insulator Apprenticeship****Units:** 1-4**Enrollment limited to State Indentured Heat and Frost Insulator Union Apprenticeship. It is advised that students be able to engage in written composition at a college level and read college-level texts.****Transfers to:** CSU

This course provides students the opportunity to work in the heat and frost insulators apprenticeship program for the purpose of developing specific skills to meet the goals and objectives of the Heat and Frost Insulator Joint Apprenticeship and Training Committee (J.A.T.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all work experience course offerings. Only one work experience course may be taken per semester.  
Hours: 3 Lecture. 75-300 Lab.

## HEAVY EQUIPMENT TECHNOLOGY

### Division of Career and Technical Education

**HET 061****Outdoor Power Equipment Operation and Maintenance****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This introductory course familiarizes students with the basic operation and maintenance of different types of outdoor power equipment. Instruction covers the repair and maintenance of compact tractors, towable backhoes, lawn and brush equipment, portable generators, air compressors, pressure washers, ground vibrating plates, water pumps, gas powered saws, and many kinds of equipment powered by small displacement internal combustion engines. Students have the opportunity to perform minor repair work on their own equipment to complete required tasks. This course is designed to be a companion course to HET 062, HET 063, and HET 064, and is required for the Outdoor Power Equipment Maintenance Technician certificate. Students are encouraged to complete all four courses in order to obtain a firm foundation in the outdoor power equipment field.  
Hours: 45 Lecture. 27 Lab.

**HET 062****Outdoor Power Equipment Four-Stroke Engine Repair****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This introductory course familiarizes students with the basic operation and repair of four-stroke outdoor power

equipment engines. Instruction covers tools and service equipment, problem diagnosis, failure analysis, proper repair techniques, machining operations, and testing and adjusting after repairs. Students have the opportunity to perform engine work on their own equipment to complete required tasks. This course is designed to be a companion course to HET 061, HET 063, and HET 064, and is required for the Outdoor Power Equipment Maintenance Technician certificate. Students are encouraged to complete all four courses in order to obtain a firm foundation in the outdoor power equipment field.  
Hours: 45 Lecture. 27 Lab.

**HET 063  
Outdoor Power Equipment Engine Systems**

**Units:** 3  
**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This introductory course familiarizes students with the basic operation and repair of outdoor power equipment engine systems. Instruction covers tools and service equipment, problem diagnosis, and proper repair techniques of air induction, exhaust, fuel, lubrication, cooling, electrical, ignition, governor, and power delivery systems. Students have the opportunity to perform engine work on their own equipment to complete required tasks. This course is designed to be a companion course to HET 061, HET 062, and HET 064, and is required for the Outdoor Power Equipment Maintenance Technician certificate. Students are encouraged to complete all four courses in order to obtain a firm foundation in the outdoor power equipment field.  
Hours: 45 Lecture. 27 Lab.

**HET 064  
Introduction to Two-Stroke Gasoline Engines**

**Units:** 3  
**Advisory:** READ 043 or appropriate placement

This introductory course familiarizes students with the basic operation and repair of two-stroke engines used in hand-held outdoor power equipment. Instruction covers tools and service equipment, problem diagnosis, failure analysis, proper repair techniques, and testing and adjusting after repairs. Students have the opportunity to perform engine work on their own equipment to complete required tasks. This course is designed to be a companion course to HET 061, HET 062, and HET 063, and is required for the Outdoor Power Equipment Maintenance Technician certificate. Students are encouraged to complete all four courses in order to obtain a firm foundation in the outdoor power equipment field.

Hours: 45 Lecture. 27 Lab.

**HET 101  
Introduction to Heavy Equipment Technology**

**Units:** 4  
**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU  
This is an introductory course designed to familiarize the student with the basic operation and maintenance of a multitude of systems commonly found on Heavy Equipment machinery. Students will learn the fundamentals of diesel engines, clutches, manual transmissions, torque converters, automatic transmissions, drive lines, steer and drive axles, various brake and hydraulic systems. In addition, the students will learn basic tools and equipment, and how to safely perform basic repairs and maintenance operations. This is the first course in a series of Heavy Equipment Technology classes, and is designed for the student who wants to enter the field of Heavy Equipment Maintenance and Repair.  
Hours: 54 Lecture. 54 Lab.

**HET 106  
Heavy Equipment Electrical Fundamentals**

**Units:** 4  
**It is advised that students be able to engage in written composition at a college level and read college level-texts.**

**Transfers to:** CSU  
This introductory course is designed to familiarize the student with the heavy equipment's electrical and electronic systems. Topics covered include fundamentals of electricity, basic circuits, schematics, symbols, diagrams, DVOM, graphing multimeter and oscilloscope usage, wire repair techniques, electrical components, semiconductors (including IC), battery, charging, starting, accessory, and instrumentation systems. Demonstrations using the A-Tech circuit boards will be used to illustrate electrical principles, including strategy-based diagnostics.  
Hours: 54 Lecture. 54 Lab.

**HET 107  
Heavy Equipment Operation, Performance Testing and Adjusting**

**Units:** 4  
**Prerequisite:** HET 101, HET 106  
**Transfers to:** CSU  
This course is designed to familiarize the students with California and Federal OSHA Safety Regulation for the General Industry Workplace, and a variety of material handling and construction equipment including forklifts, skid steer loaders, and front end loaders/backhoes. Topics covered include rules and regulations, worksite material storage and handling, fire protection and prevention, hand and power tools, welding and cutting, electrical safety,

and fall protection. Machine specific terminology, pre-operational inspection, principles of balance and stability, capacity and load handling, refueling, hydraulic power, job site and pedestrian safety will also be covered. Students will learn how to safely verify the machine performance and how to perform minor adjustments of various subsystems if needed. Upon successful completion of this course and forklift operation examination the student will receive a Certificate of Completion and wallet card for Forklift Operator Safety Training as required by OSHA 1910.178(l) and CAL/OSHA Title 8 (Section 3669), which is good for three years, and a 10-hour OSHA Training Certificate of Completion, which is good for life.  
Hours: 54 Lecture. 54 Lab.

**HET 121  
Introduction to Heavy Equipment Maintenance**

**Units:** 3  
**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU  
This is an introductory course designed to familiarize the student with the fundamentals of periodic maintenance of various heavy equipment systems such as engines, hydraulics, drive trains, final drives, and hydraulic and air brake systems. Students will learn basic tools and shop equipment, and how to safely perform routine services and minor repair operations on heavy machinery. This course is designed to be a companion course to HET 122, HET 123, HET 124 and HET 125, and is required for the Heavy Equipment Maintenance Technician certificate. Students are encouraged to complete all five courses in order to obtain a firm foundation in heavy equipment technology.  
Hours: 45 Lecture. 27 Lab.

**HET 122  
Introduction to Heavy Equipment Electrical and Diagnostic Procedures**

**Units:** 3  
**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU  
This is an introductory course designed to familiarize the student with the basics of the heavy equipment electrical systems. Topics include fundamental principles, electrical symbols and schematics, batteries, starting, charging, and lighting systems. Students will learn the proper use of electrical measuring tools and how to safely perform basic electrical tests and minor repairs. This course is designed to be a companion course to HET 121, HET 123, HET 124 and HET 125, and it is required for the Heavy Equipment Maintenance Technician certificate. Students are encouraged to complete all five courses

in order to obtain a firm foundation in heavy equipment technology.  
Hours: 45 Lecture. 27 Lab.

#### **HET 123**

##### **Introduction to Heavy Equipment Mobile Hydraulics**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is an introductory course designed to familiarize the student with the basic construction and operation of mobile hydraulic systems. Topics include hydraulic safety, fundamental principles, pumps, valves, cylinders and motors, hoses, couplers, and hydraulic symbols and schematics. Students will learn the proper use of hydraulic tools and how to safely perform hydraulic tests and minor repairs. This course is designed to be a companion course to HET 121, HET 122, HET 124 and HET 125, and it is required for the Heavy Equipment Maintenance Technician certificate. Students are encouraged to complete all five courses in order to obtain a firm foundation in heavy equipment technology.  
Hours: 45 Lecture. 27 Lab.

#### **HET 124**

##### **Introduction to Heavy Equipment Powertrains**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is an introductory course designed to familiarize the student with the basic construction and operation of heavy equipment powertrains. Topics include principles of gears, friction clutches, fluid couplers, anti-friction bearings, planetary gears, and differential gear sets. Students will learn the proper use of precision measuring tools and how to safely perform basic powertrain tests and minor repairs. This course is designed to be a companion course to HET 121, HET 122, HET 123 and HET 125, and it is required for the Heavy Equipment Maintenance Technician certificate. Students are encouraged to complete all five courses in order to obtain a firm foundation in heavy equipment technology.  
Hours: 45 Lecture. 27 Lab.

#### **HET 125**

##### **Introduction to Diesel Engines, Fuel Systems and Emissions**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is an introductory course designed to familiarize the students with the basic construction, operation, and emission controls of the four-stroke

diesel engine. Topics include engine blocks, rotating assemblies, cylinder heads, valve trains, and intake, exhaust, lubrication and cooling systems. In addition, fuel systems and diesel emission reduction strategies will also be discussed. Students will learn the proper use of diagnostic tools and how to safely perform basic engine tests and minor repairs. This course is designed to be a companion course to HET 121, HET 122, HET 123 and HET 124, and it is required for the Heavy Equipment Maintenance Technician certificate. Students are encouraged to complete all five courses in order to obtain a firm foundation in Heavy Equipment Technology.  
Hours: 45 Lecture. 27 Lab.

#### **HET 140**

##### **Heavy Equipment Electrical Diagnosis**

**Units:** 4

**Prerequisite:** HET 107

**Transfers to:** CSU

This course is designed to familiarize the student with the heavy equipment's electrical and electronic systems. Topics include review of electrical theory, circuit faults, electrical and electronic components usage and diagnostics, computers, sensors, actuators, and data communications. A-Tech simulator boards will be used to illustrate different component functions. In addition, the students will be introduced to the strategy based diagnostics, including troubleshooting electrical problems using live equipment.  
Hours: 54 Lecture. 54 Lab.

#### **HET 150**

##### **Heavy Equipment Fuel Systems and Emissions**

**Units:** 4

**Prerequisite:** HET 107

**Transfers to:** CSU

This course is intended to familiarize the students with a wide variety of heavy equipment diesel engine fuel systems and operation. Topics covered include hydromechanical systems such as port-helix, inlet-metering, sleeve-metering and mechanical unit injectors as well as computerized management systems including common rail and amplified common rail. Additional topics regarding diesel engine emission control strategies and devices such as diesel oxidation catalyst, diesel particulate filter and selective catalytic reduction will also be covered. Component failure analysis will be discussed as part of testing and adjusting of various fuel systems. In addition, proper shop and personal safety, and how to use manufacturer's service specifications information will also be covered.  
Hours: 54 Lecture. 54 Lab.

#### **HET 160**

##### **Heavy Equipment Diesel Engines**

**Units:** 4

**Prerequisite:** HET 107

**Transfers to:** CSU

This course is designed to familiarize the students with the mechanical aspects of the Heavy Equipment diesel engines. Topics covered include engine terminology, designs, theory of operation, construction, disassembly, cleaning, components inspection, failure analysis, and reassembly. In addition, proper shop and personal safety, correct usage of shop and hand tools, precision measuring instruments, critical fasteners, and how to use manufacturer's service specifications information will also be covered.  
Hours: 54 Lecture. 54 Lab.

#### **HET 200**

##### **Heavy Equipment Hydraulic Fundamentals**

**Units:** 4

**Prerequisite:** HET 107

**Transfers to:** CSU

This introductory course is designed to familiarize the students with a variety of mobile hydraulic systems and their operational characteristics. Topics covered include hydraulics safety, hydraulic power principles, system designs, basic components, oil contamination and filtration, hydraulic symbols, schematics, diagrams, and testing instruments. In addition, an overview of electro-hydraulic systems including electric and electronic components, controllers, controller programming, and data communication, will also be covered. Hydraulic trainer simulators will be used to illustrate power principles and operation. Using hydraulic schematics the students will build a wide variety of hydraulic systems commonly installed in modern heavy equipment.  
Hours: 54 Lecture. 54 Lab.

#### **HET 210**

##### **Heavy Equipment Hydraulic Diagnostics**

**Units:** 4

**Prerequisite:** HET 200

**Transfers to:** CSU

This course is intended to familiarize the students with the heavy equipment's hydraulic and electro-hydraulic systems. Topics include review of hydraulic theory and basic hydraulic system designs and components, hydraulic and electronic components used in electro-hydraulic systems, hydraulic controllers, sensors, actuators, and data communications. In addition, the students will be introduced to the strategy-based diagnostics, with an emphasis on electro-hydraulic controls failures, using hydraulic trainer simulators and live equipment.  
Hours: 54 Lecture. 54 Lab.

#### **HET 220**

##### **Heavy Equipment Powertrains I**

**Units:** 4

**Prerequisite:** HET 107

**Transfers to:** CSU

This course is designed to familiarize the students with conventional Heavy Equipment powertrain systems and components. Topics covered include



fundamentals of gears, friction and anti-friction bearings, mechanical clutches, manual transmissions, driveline systems, drive axles, final drives, hydraulic and air brakes, and undercarriage systems. Component failure analysis will be discussed as part of disassembly, inspection, and reassembly of various transmissions, drive axles, and final drives. In addition, proper shop and personal safety, and how to use manufacturer's service specifications information will also be covered.

Hours: 54 Lecture. 54 Lab.

#### **HET 230**

##### **Heavy Equipment Powertrains II**

**Units:** 4

**Prerequisite:** HET 220

**Transfers to:** CSU

This course is intended to familiarize the students with a wide variety of modern heavy equipment powertrains systems and components. Topics covered include powershift transmissions, torque converters, hydrostatic drive systems, AC electric drive systems, spring-applied hydraulically released brakes, steering, and suspension systems. Component failure analysis will be discussed as part of disassembly, inspection, and reassembly of various transmissions, drives, brakes and steering systems. In addition, proper shop and personal safety, and how to use manufacturer's service specifications information will also be covered.

Hours: 54 Lecture. 54 Lab.

#### **HET 240**

##### **Heavy Equipment Heating, Ventilation, and Air Conditioning**

**Units:** 4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to familiarize the student with the heavy equipment's heating, ventilation and air-conditioning systems, and prepare them for an entry level technician in this field. Topics covered include environmental and safety practices, thermodynamic principles, refrigeration systems, engine cooling and heat sources, service and troubleshooting procedures. Automatic systems, service equipment, contamination issues and the rules of AQMD/EPA will also be covered. During the course, students will be given the opportunity to earn their certification license (EPA Rule 1411).

Hours: 54 Lecture. 54 Lab.

#### **HET 290**

##### **Cooperative Work Experience/ Internship for Heavy Equipment Technology Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a**

**college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under the supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in their area of vocational interest and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the heavy equipment maintenance field and have completed or enrolled in the appropriate coursework. Contact the Cooperative Work Experience Education (CWEE) Office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 60-300 Lab.

#### **HET 299**

##### **Directed Study in Heavy Equipment Technology**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.

Hours: 54-162 Lab.

## **HISTORY**

### **Division of Behavioral and Social Sciences**

#### **HIST 101**

##### **History of World Civilization to the 17th Century (C-ID: HIST 150)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of the political, economic, and social development of world civilization up to the 17th century. Special emphasis is placed on the origins of the earth's principal centers of civilization, their subsequent interaction, and the emergence of a world economic, political, and intellectual order. The course is designed for students who want to increase their understanding and appreciation of cultural, political, and intellectual diversity, as well as the process of intercultural interaction. This course also satisfies a course requirement for the Associate in Arts in History for Transfer (AA-T).

Hours: 54 Lecture.

#### **HIST 102**

##### **History of World Civilization 1500 to the Present (C-ID: HIST 160)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This is a general education course for Rio Hondo College and the Cal State University (CSU) and University of California (UC) systems, and is also a required course for the Associate required course for the Associate in Arts in History for Transfer (AA-T). Additionally, the course is a restricted elective for the Associate in Arts in General Studies with an Emphasis in Art and Human Expression, Emphasis in Social Behavior and Self-Development; and Emphasis in Social Sciences.

Hours: 54 Lecture.

#### **HIST 122**

##### **History of Mexico**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the cultural, social, and political history of Mexico from pre-Columbian to modern times. The course will cover pre-Columbian Mesoamerica; the Spanish conquest and the colonial period; and the national period, with special emphasis on Mexico's relations with the United States and its place and role in the world community. It is designed for

students interested in understanding Mexico as a nation, and also is recommended for all history and most social science majors. This course is also a restricted elective for the Associate of Arts in History for Transfer (AA-T). Hours: 54 Lecture.

### **HIST 131**

**History of the North American Indian**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course surveys the struggle of Native Americans to maintain their culture in the face of invasion and changing technology. It explores the U.S. government's Indian policies of removal, pacification, annihilation, and assimilation, and considers issues facing Native Americans today. The course is intended for students who want to understand the role of Native Americans in the historical development of North America and is recommended for all history majors. This course also satisfies a course requirement for the Associate of Arts in History for Transfer (AA-T). Hours: 54 Lecture.

### **HIST 143**

**History of the United States to 1877**  
**(C-ID: HIST 130)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: HIST 143 or HIST 143H

This course is a survey of United States history from Native American origins to post-Civil War Reconstruction. Social, economic, political, and cultural developments are explored, and an emphasis placed on the independence movement, Revolutionary War, new republic, westward expansion, and the Civil War. The course is designed for students interested in the foundational history of the United States. It is recommended for all history majors, and fulfills the Cal State University (CSU) and University of California (UC) systems' American Institutions requirement and the American Institutions requirement for the associate degree. This course also satisfies a requirement for the Associate in Arts in History for Transfer (AA-T). Hours: 54 Lecture.

### **HIST 143H**

**History of the United States to 1877 Honors (C-ID: HIST 130)**

**Units: 3**

**It is advised that students be able to read college level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one

of the following courses: HIST 143 or HIST 143H

This course is a survey of United States history from Native American origins to post-Civil War Reconstruction. Social, economic, political, and cultural developments are explored, and an emphasis placed on the independence movement, Revolutionary War, new republic, westward expansion, and the Civil War. The course is designed for students interested in the foundational history of the United States. It is recommended for all history majors, fulfills the Cal State University (CSU) and University of California (UC) systems' American Institutions requirement and the American Institutions requirement for the associate degree, and is intended for those who meet Honors Program requirements. This course also satisfies a requirement for the Associate in Arts in History for Transfer (AA-T). Hours: 54 Lecture.

### **HIST 144**

**History of the United States Since 1865 (C-ID: HIST 140)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: HIST 144 or HIST 144H

This course provides a survey of the political, social, economic, and cultural development of the United States from Reconstruction (1865) to the present. Some topics addressed are Reconstruction, the American West, capital and labor in the age of enterprise, America as an emerging world power, World War I, World War II, the Vietnam Era, the Cold War, and the new world order. This course fulfills the American Institutions requirement for the Associate Degree. It is recommended for all history majors and satisfies a course requirement for the History for Transfer (AA-T) degree. Hours: 54 Lecture.

### **HIST 144H**

**History of the United States Since 1865 Honors (C-ID: HIST 140)**

**Units: 3**

**Prerequisite:** ENGL 101

**Advisory:** READ 043 or appropriate placement

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: HIST 144 or HIST 144H

This course provides a survey of the political, social, economic, and cultural development of the United States from Reconstruction (1865) to the present. Some topics addressed are Reconstruction, the American West, capital and labor in the age of enterprise, America as an emerging world power, World War I, World War II, the Vietnam Era, the Cold War, and the

new world order. This course fulfills the American Institutions requirement for the Associate Degree. It is recommended for all history majors, satisfies a course requirement for the History for Transfer (AA-T) degree, and is intended for students who meet Honors Program requirements. Hours: 54 Lecture.

### **HIST 156**

**Black American Experience to 1865**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course investigates the history of Black Americans from west African origins to the abolition of slavery, roughly dating from the 1400s to 1865. Students examine the ways in which Blacks constructed a distinct African-American culture, influenced by the African past, shared experiences of enslavement, and the experiences of free Blacks. The course also pays close attention to the methods and tactics employed by Blacks to exert control over their lives, highlighting their major successes and achievements despite myriad forms of oppression and discrimination. Hours: 54 Lecture.

### **HIST 157**

**Black American Experience Since 1865**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the historical experiences of Black Americans from emancipation to the present, paying close attention to the twentieth century. Students navigate and examine the factors that led to the development of a distinct Black American culture, a legacy of resistance against legal and extralegal inequities, the acquisition of political and economic rights, and Black contributions to the expanding definition of democracy and freedom. Hours: 54 Lecture.

### **HIST 158**

**US Comparative History of American Indians and Black Americans**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of the role American Indians and Black Americans have played in the historical development of the United States from the earliest times to the present. The course begins with a study of racism, followed by the history and cultural contributions of American Indians and African Americans. This course fulfills



the American Institutions requirement for the associate degree (Title 5, Section 40404). The course is intended for students who want to increase their understanding of the history of minorities in the United States. This course also satisfies a course requirement for the Associate in Arts in History for Transfer (AA-T).  
Hours: 54 Lecture.

#### **HIST 159**

##### **US Comparative History of Mexican and Asian Americans and Women**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: HIST 159 or HIST 159H

This course surveys the roles selected minorities have played in the historical development of the United States from the earliest times to the present. Emphasis is placed on the history and cultural contributions of Mexican Americans, Asian Americans, and American women. This course is intended for students who want to fulfill the American Institutions requirement for the associate degree (Title 5, Section 40404) and CSU requirements, as well as students want to increase their understanding of the history of minorities in the United States. This course is a restricted elective for the Associate in Arts in History for Transfer (AA-T).  
Hours: 54 Lecture.

#### **HIST 159H**

##### **US Comparative History of Mexican and Asian Americans and Women Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: HIST 159 or HIST 159H

This course surveys the roles selected minorities have played in the historical development of the United States from the earliest times to the present. Emphasis is placed on the history and cultural contributions of Mexican Americans, Asian Americans, and American women. This course is intended for students who want to fulfill the American Institutions requirement for the associate degree (Title 5, Section 40404) and CSU requirements, as well as students want to increase their understanding of the history of minorities in the United States. This course is a restricted elective for the Associate in Arts in History for Transfer (AA-T). This course is intended for students who meet Honors Program requirements.  
Hours: 54 Lecture.

#### **HIST 167**

##### **History of California**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an overview of California history from the first aboriginal inhabitants to modern times. The course addresses cultural, political, social, and economic development in the context of history; the development of contemporary institutions; and the historical context of current issues. This course is suitable for students seeking further understanding of California's past and present, and those preparing for a career in teaching at the elementary level. This course also satisfies a requirement for the Associate in Arts in History for Transfer (AA-T).  
Hours: 54 Lecture.

#### **HIST 170**

##### **Women in American History**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course surveys the roles, status, and contributions of women of different ethnic groups and social classes in American society from earliest times to the present, with an emphasis on the twentieth century. Special attention is given to an understanding of how gender has shaped women's options and expectations within the private and public spheres of society. This course is designed for students who want to learn more about women's history in America, and is recommended for all history majors. This course also satisfies a course requirement for the Associate in Arts in History for Transfer (AA-T).  
Hours: 54 Lecture.

#### **HIST 299**

##### **Directed Study in History**

**Units:** 1-3

**Prerequisite:** HIST 101 or HIST 102 or HIST 143 or HIST 143H or HIST 144 or HIST 144H or HIST 158 or HIST 159 or HIST 159H

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area.

Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of four (3) units within a discipline, and may not accumulate more than a total of twelve (9) units college wide.  
Hours: 54-162 Lab.

#### **HIST 325**

##### **History of Science and Technology**

**Units:** 3

**Prerequisite:** ENGL 201 or ENGL 201H,

HIST 101 or HIST 102 or HIST 143 or HIST 143H or HIST 144 or HIST 144H

This upper division General Education course is designed for students pursuing a bachelor of science degree within the California Community College system. The course explores the history of science and technology, from initial Ptolemaic and Aristotelian understandings of the universe, through the challenges brought by the scholars of the Scientific Revolution, to the modern innovators of scientific developments and advancements in technology. The course provides an overview of how individuals, societies, and nations were impacted by these developments and how science and technology impact political, social, economic, and cultural changes over time. Since both science and technology are vital in the twenty-first century, this course aims to highlight the long history behind each from a global historical perspective.  
Hours: 54 Lecture.

## **HOMELAND SECURITY**

### **Division of Public Safety**

#### **HMLD 101**

##### **Introduction to Homeland Security**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides first responders and students with foundational knowledge about homeland security. The course takes up theories about and the history of homeland and national security, and includes discussions about the policies, organizational relationships, and legal issues in an American context from federal, state, and local municipal government perspectives.

Hours: 54 Lecture.

### **HMLD 102 Introduction to Emergency Management**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides students with the foundational knowledge that pertains to first responded responsibilities and emergency management. Topics include policies, organizational relationships, and legal issues from United States federal, state, and local municipal government perspectives.

Hours: 54 Lecture.

### **HMLD 103 Terrorism and Violence in Society**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course provides students with an overview of domestic and global issues related to terrorism and violence in society. The course includes an analysis of terrorism and violent extremism as an aggressive alternative to peaceful change and traditional warfare in the modern age. From domestic and international levels of analysis, students also investigate the role economic, political, and social factors play in determining patterns of terrorist activity, homegrown terrorism, and violent extremism.

Hours: 54 Lecture.

### **HMLD 104 Emergency Planning and Response**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is for students who want to know about emergency planning and response. The course covers this subject using the National Incident Management System (NIMS) and the Incident Command System (ICS) as part of the National Response Framework (NRF). Students learn about national responses to all types of disasters and emergencies in the United States; and how the NRF's flexibility is used in the public-private sector of the homeland security enterprise, including governmental agencies and regulatory and legal sources responsible for hazard mitigation. Students apply concepts learned in the course to risk assessments and in developing strategies and plans at local, state, national, and international levels.

Hours: 54 Lecture.

### **HMLD 105**

### **Hazard Mitigation in Emergency Management**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is an introduction to mitigation—one of the four core phases of emergency management. The course covers the hazard planning process to assist students in mitigating or eliminating hazards from an all-hazard approach to emergency management. Students also learn about the national framework used in the public-private sector of the homeland security enterprise, including governmental agencies and regulatory and legal sources responsible for hazard mitigation. Students apply concepts learned in the course to risk assessments and in developing strategies and plans at local, state, national, and international levels.

Hours: 54 Lecture.

### **HMLD 200 Foundations of Critical Infrastructure Protection (C-ID: HMLD 200)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides the student with an overview of the policies, strategies, and practical application of critical infrastructure security and resilience from an all-hazards perspective. Students will explore the contemporary risk environment and examine the challenges and opportunities associated with the following: public-private partnerships; information-sharing; risk analysis and prioritization; risk mitigation and management; performance measurement; incident management; and addressing future risks.

Hours: 54 Lecture.

### **HMLD 203 Homeland Security: Leadership, Policy and Practice**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides the student with an in-depth overview of the issues related to the leadership, policies and practices of homeland security in America and abroad. This course provides for the critical examination of the challenges facing the nation and the homeland security enterprise through detailed investigation of selected case studies from a leadership perspective. Students will analyze significant issues of homeland security from social, political, economic and

cultural perspectives facing the nation. This course adds to the Homeland Security program with an in-depth study of the policies and practices affecting homeland security.

Hours: 54 Lecture.

### **HMLD 205 Cybersecurity: Policy and Practice (C-ID: 205)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides the student with an overview of the domestic and global issues related to the policies and practices of cybersecurity in America. This course includes an analysis of the history of the internet, the technological advances of internet based programs and the security of the cyber domain. Students will also investigate the role economic, political and social factors play in determining how cybersecurity will play a significant role in society from a domestic and international level of analysis.

Hours: 54 Lecture.

## **HOSPITALITY**

### **Division of Career and Technical Education**

#### **HOSP 101 Introduction to the Hospitality Industry (C-ID: HOSP 100)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an overview of the hospitality industry with perspectives on customer service, operations, and career opportunities. Key industry segments are presented with close attention to service standards, trends and issues, the interrelationships between industry segments and the connections with the tourism industry.

Hours: 54 Lecture.

#### **HOSP 102 Introduction to Hotel Operations (C-ID: HOSP 140)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to introduce students to the hotel industry. Students will gain an understanding of hotel organization and classification, and the range of hotel operations including front office, housekeeping, food and beverage, information systems, accounting, and property maintenance. They will also gain an understanding of

how these functional areas work together to deliver the guest experience and exceed guests' expectations.  
Hours: 54 Lecture.

#### **HOSP 103**

##### **Sanitation and Safety (C-ID: HOSP 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

In this course students will learn the principles and practices of sanitation and safety in food service operations. Topics covered include food-borne illness identification and prevention, the Hazard Analysis of Critical Control Point (HACCP) system, safety maintenance and prevention, OSHA's current regulations, accident and fire prevention. The course will also prepare students for the National Restaurant Association's ServSafe® Manager Certification.

Hours: 54 Lecture.

#### **HOSP 104**

##### **Introduction to Food and Beverage Management (C-ID: HOSP 130)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to introduce students to the food and beverage industry and entry-level management of food and beverage operations. Focal areas include an overview of the food service industry, nutrition, menu pricing and food costs, types of food and beverage service, sanitation and safety, managing finances, and sustainability.

Hours: 54 Lecture.

#### **HOSP 201**

##### **Hospitality Law (C-ID: HOSP 150)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

The course explores the legal relationship and considerations of hotel, restaurant, travel and tourism operations. Limiting personal and business exposure to liability and best practices for complying with requirements of the US legal system are emphasized. Topics include food and beverage liability, employee selection, common contracts, responsibilities to guests and for guest property, safety and security, and Americans with Disabilities Act.

Hours: 54 Lecture.

## **HEALTH SCIENCES**

### **Division of Health Science and Nursing**

#### **HS 045**

##### **Math for the Health Care Professional**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

This is a basic course that focuses on mathematical computation and application within the health care setting. Topics covered within this course include drug dosages, calculation of intake and output, weights and measures, temperatures, intravenous infusion rates and conversions necessary for safe employment in the healthcare setting. This course is an elective course for students wanting to pursue a career in the healthcare industry.

Hours: 18 Lecture.

#### **HS 050**

##### **Nurse Assistant Pre-Certification Training Course**

**Units:** 4

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Corequisite:** HS 050L

This entry-level nursing course meets Title 22 regulations for taking care of the geriatric population in a long term care setting, utilizing skills in basic care, emergency care, and communication. The course, which consists of 72 hours of classroom instruction, prepares students to take the California State Certification Exam to become a Certified Nurse Assistant (CNA). After obtaining the state certification, students may find employment in the acute care and/or long-term care settings. The California Department of Public Health (CDPH) requires students must be enrolled in HS 050 and HS 050L concurrently, and pass both courses at the same time; neither course can be taken individually for credit.

Hours: 72 Lecture.

#### **HS 050L**

##### **Nurse Assistant Pre-Certification Training Course Lab**

**Units:** 2.5

**Corequisite:** HS 050

This lab, to be taken at the same time as HS 050 (the Nurse Assistant Pre-Certification Training Course) meets Title 22 regulations for taking care of the geriatric population in a long term care setting, utilizing skills in basic care, emergency care, and communication. The Nurse Assistant Pre-Certification training course lab consists of 135

hours of supervised clinical practice in the classroom lab and long-term care facilities. The course prepares the student to take the California State Certification Exam to become a Certified Nurse Assistant (CNA). After obtaining the state certification, students may find employment in the acute care and/or long-term care settings. The California Department of Public Health (CDPH) requires students must be enrolled in HS 050 and HS 050L concurrently, and pass both courses at the same time; neither course can be taken individually for credit.

Hours: 135 Lab.

#### **HS 051**

##### **Certified Nurse Assistant Acute Care Training Course**

**Units:** 1.5

**Enrollment requires California State Nurse Assistant Certification**

**Prerequisite:** HS 050 and HS 050L

**Corequisite:** HS 051L

This course is designed for students who are Certified Nurse Assistants that wish to learn the basic nursing skills and duties in the acute care hospital setting with additional emphasis on the specialized acute care areas such as medical/surgical, orthopedics, pediatrics and obstetrics. The Certified Nurse Assistant Acute Care Training Course consists of 27 hours of lecture content. This course includes communication, patient observation skills, reporting and recording training as well as reinforcement of Certified Nurse Assistant basic-care procedures. The Division of Health Science and Nursing requires that students must be concurrently enrolled in both HS 051 and HS 051L, and pass both courses together. They cannot be taken individually for credit.

Hours: 27 Lecture.

#### **HS 051L**

##### **Certified Nurse Assistant Acute Care Training Course Lab**

**Units:** 1.5

**Enrollment requires California State Nurse Assistant Certification**

**Prerequisite:** HS 050 and HS 050L

**Corequisite:** HS 051

This course is designed for students who are Certified Nurse Assistants that wish to learn the basic nursing skills and duties in the acute care hospital setting with additional emphasis on the specialized acute care areas such as medical/surgical, orthopedics, pediatrics and obstetrics. The Certified Nurse Assistant Acute Care course lab consists of 81 hours of clinical practice alongside a clinical employed CNA in an acute care facility with faculty daily/weekly monitoring. This course includes communication, patient observation, reporting and recording training as well as reinforcement of Certified Nurse Assistant basic-care procedures. The Health Science and Nursing Division require that students must be

concurrently enrolled in both HS 051 and HS 051L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 81 Lab.

#### **HS 052**

##### **Home Health Aide Training Course**

**Units:** 1.5

**Enrollment requires California State CNA Certification**

**Prerequisite:** HS 050, HS 050L

**Corequisite:** HS 052L

This course is designed for students who are Certified Nurse Assistants that wish to learn how to provide personal care in the home care setting for those who are unable to do it for themselves and/or promote the recovery, safety and comfort of the patient. Additional emphasis on rehabilitative nursing care, family relationships and the impact of long-term illness on the family as well as the client will be included. The Home Health Aide training course consists of 27 hours classroom instruction. This course meets title 22 regulations for Home Health Aides training programs. The California Department of Health requires that students must be concurrently enrolled in both HS 052 and HS 052L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 27 Lecture.

#### **HS 052L**

##### **Home Health Aide Training Course Lab**

**Units:** 1

**Enrollment requires California State CNA Certification**

**Prerequisite:** HS 050, HS 050L

**Corequisite:** HS 052

This course is designed for students who are Certified Nurse Assistants that wish to learn how to provide personal care in the home care setting for those who are unable to do it for themselves and/or promote the recovery, safety and comfort of the patient. Additional emphasis on rehabilitative nursing care, family relationships and the impact of long-term illness on the family as well as the client will be included. The Home Health Aide training course consists of 54 hours supervised clinical practice in either the Acute care or Skilled Nursing Facility. This course meets title 22 regulations for Home Health Aides training programs. The California Department of Health requires that students must be concurrently enrolled in both HS 052 and HS 052L, and pass both courses together. They cannot be taken individually for credit.  
Hours: 54 Lab.

#### **HS 054**

##### **Beginning Terminology for Healthcare Workers**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course covers the basic knowledge and understanding of medical language, terminology, and basic human anatomy. The student will learn word parts, prefixes, suffixes, word roots and will review the body systems. Anatomical, physiological and pathophysiological terms will also be defined. This is an entry-level course for students interested in the health care field and is highly recommended prior to enrolling in any health-related course.

Hours: 54 Lecture.

#### **HS 060**

##### **Health Science Core**

**Units:** 5

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition, the ability to read college-level texts, and completion of a prealgebra course.**

This is a basic course which focuses on medical terminology, normal body structures and functions, the principles of nutrition, and the relationship of nutrition to health. It provides a strong foundation for all students entering the health care field. This course is a prerequisite for the Vocational Nursing Program.

Hours: 90 Lecture.

#### **HS 070**

##### **Introduction to Ambulatory Care Nursing**

**Units:** 4.5

**Enrollment requires possession of an unrestricted California RN license**

This is an introductory level course to prepare the licensed RN to work in the ambulatory care nursing setting. This course includes classroom lecture and learning activities that provides the type of skills and competencies needed for the RN to work in outpatient care settings, such as clinics.

Hours: 81 Lecture.

## **HUMANITIES**

### **Division of Behavioral and Social Sciences**

#### **HUM 110**

##### **Survey of Humanities**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course provides an interdisciplinary presentation of cultural forces, providing the student with a comprehensive view of the most vital artistic, literary, philosophical, religious and architectural movements within the Western, Eastern and Meso-American traditions from the Egyptians to the 1500s. This course is intended for students who wish to further their

understanding of the major cultural developments from around the world.  
Hours: 54 Lecture.

#### **HUM 111**

##### **Survey of Humanities**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course provides an interdisciplinary presentation of cultural forces, providing the student with a comprehensive view of the most vital artistic, literary, philosophical, religious, scientific and architectural movements within the Western, Eastern and Latin American traditions from the Renaissance to the 20th century. This course is intended for students who wish to further their understanding of major cultural developments around the world.

Hours: 54 Lecture.

#### **HUM 125**

##### **Introduction to Mexican Culture**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for only one of the following courses: HUM 125 or HUM 125H

This course provides an interdisciplinary presentation of vital artistic, literary, architectural, musical, political, religious and historical movements within Mexico spanning from Pre-Cortesian to contemporary times. This course is designed for students who wish to further their understanding of major Mexican cultural and historical developments.

Hours: 54 Lecture.

#### **HUM 125H**

##### **Introduction to Mexican Culture Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for only one of the following courses: HUM 125 or HUM 125H

This course provides an interdisciplinary presentation of vital artistic, literary, architectural, musical, political, religious and historical movements within Mexico spanning from pre-Cortesian to contemporary times. This course is designed for students who wish to further their understanding of major Mexican cultural and historical developments. This course is intended for those who meet Honors Program Requirements.

Hours: 54 Lecture.

#### **HUM 130**

##### **Contemporary Mexican-American Culture**



Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course provides a contemporary interdisciplinary examination of the most vital Mexican-American literary, artistic, musical, theatrical, social, political and historical movements. This course is designed for students who wish to further their understanding of major Mexican-American cultural contributions to contemporary society. Hours: 54 Lecture.

#### **HUM 140**

##### **Introduction to Asian Cultures**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students who wish to further their understanding of major Asian cultural contributions to classic and contemporary society. The student will be provided with an interdisciplinary examination of the most vital Asian literary, artistic, philosophical, architectural, religious, political and historical movements. Hours: 54 Lecture.

#### **HUM 145**

##### **Women in the Humanities**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an interdisciplinary examination of the most vital artistic, literary, political, historical, musical, religious, cinematic, and philosophical contributions by women from a variety of Western and non-Western cultures from antiquity to the present. The course is designed for students who want to further their understanding of the artistic and intellectual contributions women have made in the humanities. Hours: 54 Lecture.

## **HUMAN SERVICES**

### **Division of Behavioral and Social Sciences**

#### **HUSR 111**

##### **Human Services in Contemporary Society**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is an introduction to the history and philosophy of human services in contemporary society. The

function and objectives of human service organizations as well as the qualifications of the professional will be emphasized. A survey of the populations served in the field will focus on cultural, social, economic and historical trends. The course is designed for students pursuing careers in human services, social work, counseling or community organizing. Hours: 54 Lecture.

#### **HUSR 118**

##### **Chemical Dependency: Intervention, Treatment & Recovery (C-ID: ADS 150X)**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an introduction to current perspectives with respect to the management of chemical dependency. Through an examination of alcoholism as a model of drug dependence, the treatment of and recovery from such disorders will be explored from two divergent perspectives: the reformative and the transformative. Current treatment modalities will be compared and contrasted in terms of their view of the individual in both the social and clinical context. The class experience itself will serve as an intervention by challenging students to examine their existing ideas about treatment and recovery from substance use disorders. Suitable for students interested in furthering their understanding of substance dependence and those interested in working with populations recovering from or at risk for such problems. Hours: 54 Lecture.

#### **HUSR 120**

##### **Introduction to Rehabilitation Services**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

The purpose of this course is to provide students with an introduction to the field of rehabilitation services. This course presents an orientation to federal/state and private rehabilitation/community agencies, which are involved in facilitating the rehabilitation and treatment processes of individuals. A historical, philosophical, and social overview of rehabilitation counseling will be provided, as well as coverage of the private/state agencies and community support that assist people with disabilities. A wide variety of different issues related to the professions of rehabilitation will be discussed in detail. Students will learn to analyze the personal, social, and vocational implications of a disability in an individual's participation in a community and their own lives.

Hours: 54 Lecture.

#### **HUSR 122**

##### **Introduction to Group Leadership and Process (C-ID: ADS 130X)**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an introduction to the dynamics of group interaction. The individual's firsthand experience is emphasized as the group studies itself under supervision. The factors involved in problems of communication, effective emotional responses, and personal growth will be highlighted. Group process will be examined as a means of changing behavior. Suitable for students interested in furthering their understanding of group dynamics and those interested in supervising groups dedicated to achieving behavioral change. Hours: 54 Lecture.

#### **HUSR 123**

##### **Drug Education and Prevention**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in furthering their understanding of substance dependence and those interested in working with populations recovering from or at risk for such problems. It addresses the history, theories, models, and approaches to substance abuse education and prevention. In addition to an academic look at drug abuse, students also explore and examine their own values and beliefs about substance use and misuse. The impact of public policy, the media, and drug education programs on drug use are additional topics that are considered. Hours: 54 Lecture.

#### **HUSR 124**

##### **Introduction to Case Management and Documentation (C-ID: ADS 170X)**

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course introduces students to case management and documentation in a variety of settings. Students will study the purpose, function, and rationale for case management. In addition, the documentation of client clinical records will be covered, emphasizing the taking of social histories and the writing of treatment plans. The professional guidelines necessary for working with clients in a social services setting will also be covered, providing the student with an understanding of issues related to ethics, client rights, and

confidentiality. This class is designed for students interested in working in a social services setting.  
Hours: 54 Lecture.

#### **HUSR 126**

##### **Counseling the Family of the Addicted Person (C-ID: ASS 180X)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an overview of the systems approach to counseling the chemically dependent family. Alcoholism will be used as a model for developing counseling skills through the analysis and examination of the relationships that develop in the addicted family system. An experiential format will be employed as students participate in exercises that lead to the development of the necessary skills. This course is designed for those working with or preparing to work with the drug dependent and those around them.

Hours: 54 Lecture.

#### **HUSR 128**

##### **Chemical Dependency and Co-Occurring Disorders**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course explores understanding mental illness and persons with more than one mental/psychiatric disorder. It introduces students to the various disorders in infancy, childhood, adolescence and adulthood. It will introduce students to co-existing disorders and various diagnosis and treatment techniques used to treat this unique population. Students will tour two different types of mental health facilities to provide an additional understanding of mental health issues.  
Hours: 54 Lecture.

#### **HUSR 130**

##### **Essential Counseling Skills (C-ID: ADS 120X)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course focuses on critical counseling skills and strategies within a multicultural context. The course provides a vital orientation to the helping process and the counseling profession. Current issues within the counseling profession, such as diversity and multiculturalism, are discussed and integrated throughout the course. A unique focus is given to the student's growth and development as a counselor and how the student can best use supervision in this

developmental process. This course would be of benefit to anyone working in a human service or social services setting.

Hours: 54 Lecture.

#### **HUSR 135**

##### **Law and Ethics in Human Services**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course covers topics that include the applicable laws and ethics relating to case manager/client professional relationships in inpatient and outpatient treatment settings. Laws relating to confidentiality, patient rights, assessments, sharing of personal information, mandatory reporting, and crisis intervention requirements are presented. Dealing with issues such as duty to warn, evaluating a person's potential for suicide, child and elder abuse, and when individuals pose a serious potential of harm to others are also addressed. This is a core course for drug studies majors who are pursuing a certificate or degree.

Hours: 54 Lecture.

#### **HUSR 136**

##### **Diverse Populations in Human Services**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course examines cultural and social influences including age, ethnicity, gender, legal status, physical and psychological disability, race, religion, sexual identity, and socioeconomic status on the use of alcohol and controlled substances, as well as access to treatment for associated problems. The attitudes, knowledge, and skills necessary to provide a competent assessment of and treatment for those who are often disadvantaged or removed from conventional society are explored. This course is designed to further understanding of these diverse populations in relation to addiction, co-occurring disorders, recovery, and rehabilitation. This is a core course for drug studies majors who are pursuing a certificate or a degree.  
Hours: 54 Lecture.

#### **HUSR 199A**

##### **Seminar in Human Services**

**Units:** 1

**Prerequisite:** PSY 101 or SOC 101 or HUSR 111

**Corequisite:** HUSR 199B

**Transfers to:** CSU

This course and its corequisite (HUSR 199B) provide students with supervised field experience in a community organization, agency, or institution, which allows students to apply knowledge and learn new skills outside

of the classroom environment. This course provides the academic element to the experiential course offering and reinforces the application of concepts learned in the prerequisite course or courses.

Hours: 18 Lecture.

#### **HUSR 199B**

##### **Fieldwork in Human Services**

**Units:** 2-3

**Prerequisite:** PSY 101 or SOC 101 with a minimum grade of "C" or better

**Corequisite:** HUSR 199A

**Transfers to:** CSU

The corequisite courses HUSR 199A and 199B provide students with a supervised field experience in a community organization, agency, or institution, allowing the student to apply knowledge and learn new skills outside of the classroom environment. In this course students take the theories and principles learned in the classroom and apply them to their work in a field setting. This course is designed to provide the student with an opportunity to develop skills that would facilitate gaining employment in the human services field.

**Unpaid field work:** 2 units = 120 hours; 3 units = 180 hours

**Paid field work:** 2 units = 150 hours; 3 units = 225 hours

Hours: 120-225 Lab.

#### **HUSR 230A**

##### **Drug Studies Seminar**

**Units:** 1

**Prerequisite:** HUSR 122, HUSR 124, HUSR 130

**Corequisite:** HUSR 230B

**Transfers to:** CSU

The corequisite courses HUSR 230A and 230B are designed to be taken in the final semester of the Drug Studies Program and provide the student with work experience in a drug treatment facility. This seminar course is a companion to the internship experience and will focus on ethics, the further development of counseling skills, and the use of community resources. Concurrent enrollment in Human Services 230B.  
Hours: 18 Lecture.

#### **HUSR 230B**

##### **Drug Studies Internship**

**Units:** 2-3

**Prerequisite:** HUSR 122, HUSR 124, HUSR 130

**Corequisite:** HUSR 230A Concurrent enrollment in Human Services 230A

**Transfers to:** CSU

Co-requisite with HUSR 230A, this course is designed to be taken in the final semester of the Drug Studies Program, and provides students with work experience in a drug treatment facility. Through their internship work, students apply the concepts and skills gained through their coursework as they intern in a setting where drug dependent individuals are served. Students must meet the requirements of the internship facility. Concurrent enrollment in HUSR 230A is required.



**Unpaid field work:** 2 units =120 hours;  
3 units= 180 hours  
**Paid field work:** 2 units =150 hours; 3  
units=225 hours  
Hours: 120-225 Lab.

## JAPANESE Division of Communications and Languages

**JAPN 101**  
**Japanese I**  
**Units:** 4.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This introductory course focuses on Japanese language and culture. The course stresses oral and written proficiency through fundamental use of the Japanese language, as well as the Hiragana and Katakana script. Students also receive an introduction to Kanji characters. Various facets of Japanese history, culture and civilization are also analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice via interactive websites, audio CDs, video programs, and films in the RHC Language, where work focuses on vocabulary, grammar, and cultural practices. This course is intended for students interested in learning to speak Japanese, as well as those seeking a degree in Japanese language.  
Hours: 72 Lecture. 27 Lab.

**JAPN 102**  
**Japanese II**  
**Units:** 4.5

**Prerequisite:** JAPN 101 or completion of 2 years high school Japanese with a grade of "C" or better

**Transfers to:** UC/CSU

This course is a continuation of JAPN 101. The course stresses oral and written proficiency through fundamental use of the Japanese language, as well as the Hiragana and Katakana script. Students also further their knowledge of Kanji characters. Various facets of Japanese history, culture and civilization are also analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice via interactive websites, audio CDs, video programs, and films in the RHC Language Laboratory, where work focuses on vocabulary, grammar, and cultural practices. This course is intended for students interested in learning to speak Japanese, as well as those seeking a degree in Japanese language.

Hours: 72 Lecture. 27 Lab.

## JOURNALISM Division of Communications and Languages

**JOUR 110**  
**Digital Photojournalism I**  
**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an introduction the process of taking photographs using digital cameras, digital video cameras, and digital printing devices. Photocomposition, printing and scanning techniques using Photoshop for the use of publication, and other computer skills related to contemporary photojournalism will also be addressed. Assignments may include work for college publications. This class is recommended for students majoring in journalism or photography. Lab hours are required in addition to scheduled lecture hours.  
Hours: 36 Lecture. 54 Lab.

**JOUR 115**  
**Writing for TV and Film**  
**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course introduces students to writing for film and electronic media. The course emphasizes formatting scripts properly, including fundamental technical, conceptual, and stylistic issues related to writing fictional and nonfictional scripts for informational and entertainment purposes in film and electronic media. A writing evaluation component is a significant course requirement.  
Hours: 54 Lecture.

**JOUR 120**  
**Communications Reporting and Writing (C-ID: JOUR 110)**  
**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

The course is an introduction to the writing and editing techniques used in the newspaper industry, with an emphasis on gathering information and the principles of clarity and conciseness. Students will use computers during class and lab times. This course is intended for students who are pursuing the Associate of Science Degree/ Certificate of Achievement in Mass

Communications with either Mass Media or Print Media Specializations.  
Hours: 54 Lecture.

**JOUR 147**  
**Broadcast News**  
**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is for students interested in broadcasting for television. Students learn the principles and techniques of broadcast news with special reference to the gathering and writing of news for television, script writing, and interviewing; and the procedures and techniques of presenting the news for broadcast. This course covers law and ethics; producing news packages; live-to-tape packages; and live shots including SOT/VO, producing, and directing. Students will have the opportunity to produce the "Rio News" weekly segments for the *El Paisano* digital newspaper.  
Hours: 36 Lecture. 54 Lab.

**JOUR 220**  
**Advanced Reporting and Writing**  
**Units:** 3

**Prerequisite:** JOUR 120

**Transfers to:** UC/CSU

This course provides students with advanced instruction in explanatory and investigative journalism, covering public affairs, police, courts, school boards, and city boards. Students study methods of preparing material intended for publication in print and online editions of newspapers. The course incorporates the study of editing principles, style, and design to meet journalism industry expectations.  
Hours: 54 Lecture.

**JOUR 230**  
**Magazine Production**  
**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition.**

**Advisory:** JOUR 110

**Transfers to:** CSU

This course involves writing news, news and profile features, and commentary as well as taking and editing photographs for publication in *La Cima*, the college magazine. Students learn copy editing, layout/computer design, Photoshop, digital photography, and advertising fundamentals through the process of writing, editing, and laying out the college magazine.  
Hours: 36 Lecture. 54 Lab.

**JOUR 231**  
**Digital Magazine Production**  
**Units:** 3

**Enrollment requires appropriate placement (based on high school GPA and/or other measures) or eligibility for college composition.**

**Advisory:** GDSN 172, JOUR 120, JOUR 110

**Transfers to:** CSU

This course introduces students to the fundamentals of magazine writing, production, and editing. Students learn the methods, techniques, and procedures of magazine publication using software (e.g., *InDesign*) to layout magazine content by participating in the pre- and post-production of *La Cima*, the college magazine. Students learn how to develop story ideas and content, write stories, take photographs, prepare for publication, and design pages. Class lectures include subjects like magazine preparation, production, organization, structure, and operation. At the conclusion of the course, students will have participated in the total development and production of a magazine(s) that will be published online and printed, thereby mastering the use of design layout, illustration, and ensuring page layouts are well-balanced.

Hours: 36 Lecture. 54 Lab.

#### **JOUR 241**

**Newspaper Production I (C-ID: JOUR 130)**

**Units:** 4

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition. It is advised that students be able to read college-level texts.**

**Transfers to:** CSU

This course is for students who want to learn production and management techniques for newspaper production. Students participate in every facet of developing a newspaper for the college community by serving as staff writers, staff photographers, editors, and layout personnel. During the semester, students publish the college newspaper, *El Paisano*, by having weekly assignments for different sections of the paper, including News, Features, Arts and Entertainment, Opinion, Advertising and Sports. In addition, students may be tasked with taking photographs for special Focus pages. Editors are responsible for designing their sections of the newspaper on days designated by publication deadlines by using Quark Express and Photoshop.

Hours: 36 Lecture. 108 Lab.

#### **JOUR 242**

**Digital Newspaper Production I (C-ID: JOUR 130)**

**Units:** 4

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition and to read college-level texts.**

**Advisory:** JOUR 241

**Transfers to:** CSU

This course is for students who want to learn production and management techniques of online newspaper

publication. During the semester, students participate in every facet of developing and gathering the news for the online edition of *El Paisano* by taking on daily and weekly assignments for different sections of the newspaper, including News, Features, Arts and Entertainment, Opinion, Advertising, and Sports. In addition, students may be tasked with taking photographs for special online slide shows and developing and producing online radio podcasts, video news, and feature programs. Appointed editors distribute assignments to staff personnel during the semester and help with the development of each member of the class to produce viable online news.

Hours: 36 Lecture. 108 Lab.

#### **JOUR 243**

**Newspaper Production II (C-ID: JOUR 131)**

**Units:** 4

**Prerequisite:** JOUR 241

**Advisory:** JOUR 120

**Transfers to:** CSU

This course is for students who want to continue to learn production and management techniques for newspaper production and earn their degree in either journalism and/or mass communications with a specialization in print media. Students write, produce, layout pages, copy edit, sell advertisements, and design pages and advertisements using InDesign, Photoshop, and other editing software for the college newspaper, *El Paisano*. Students also acquire production skills in formatting and file conversions for print media. Students are expected to serve in leadership roles and cover on- and off-campus news.

Hours: 36 Lecture. 108 Lab.

#### **JOUR 244**

**Digital Newspaper Production II (C-ID: JOUR 131)**

**Units:** 4

**Prerequisite:** JOUR 242

**Transfers to:** CSU

This course is for students interested in improving their journalistic skill sets, and/or furthering their journalism career in the digital realm. Students work hands on with the variety of media platforms used to publish *El Paisano Online* ([www.elpaisanoonline.com](http://www.elpaisanoonline.com)). Students produce content for all online aspects of the digital newspaper, including podcasting, broadcasting, news segments, and writing for a mass audience while implementing the video component of all stories. At the conclusion of the course, students will have learned the concept of immediacy for online news while keeping the reader engaged.

Hours: 36 Lecture. 108 Lab.

#### **JOUR 290**

**Cooperative Work Experience / Internship for Journalism Related Fields**

**Units:** 1-4

**Prerequisite:** JOUR 120, JOUR 241, ENGL 101

**Transfers to:** CSU

This course supports and reinforces on-the-job training in journalism-related fields under supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in an area of journalism related fields and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose intended job is related to the field of journalism and have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 60-300 Lab.

#### **JOUR 299**

**Directed Study: Journalism**

**Units:** 1-3

**Transfers to:** CSU

This course is for students who are able to assume responsibility for independent work and prepare written or oral reports and/or appropriate projects. To enroll in an independent/directed study course, students must possess a 2.5 overall grade point average, and a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent/directed studies may be developed from any topic that arises from or is related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and to submit a final report or project. Student progress will be evaluated at regular intervals. Academic standards for independent/directed Studies will be the same as standards for other courses. Units are awarded in accordance to Title 5 regulations, with one (1) unit of credit awarded for 54 hours of directed study, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## **KINESIOLOGY THEORY**

### **Division of Kinesiology, Dance, and Athletics**

**KIN 058**

**Yoga Teacher Training I: Foundations**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Prerequisite/Corequisite:** KINA 158

This course includes foundational information necessary for those intending to teach Hatha Yoga. The student who successfully completes this course with the co-requisite one unit lab practicum and KINA 258 Yoga II will fulfill one half, or 100 hours required for the Yoga Alliance RYS 200 Certification. The first of a sequential two-part series, Yoga Teacher Training I: Foundations will focus on establishing a personal practice in combination with an experiential analysis of the foundational Hatha Yoga techniques of Pranayama (breath control), Asana (postures) and Dhyana (meditation). This course will also introduce the student to the history, philosophy of yoga, as well as the ethics, methodologies, and business of teaching yoga. This course is designed for the student pursuing the Yoga Teacher Training Certificate, a career teaching yoga in the fitness industry, or for those interested in furthering their understanding of the effects of yoga for health, fitness, and performance.  
Hours: 54 Lecture.

**KIN 059**

**Yoga Teacher Training II: Methodologies**  
**Units: 3**

**Prerequisite:** KIN 058

**Prerequisite/Corequisite:** KINA 258

This course builds upon KIN 058/Yoga Teacher Training I: Foundations to include further study about information necessary for those intending to teach Hatha Yoga. The student who successfully completes this course will fulfill one half, or 100 hours necessary to apply for the Yoga Alliance RYS 200 Certification. The second of a sequential two-part series, Yoga Teacher Training II: Methodologies builds on the foundations of analysis and personal practice to pranayama, asana, and dhyana. Students will study the historical contexts and philosophies of Hatha Yoga as it is taught in the United States today, as well as the ethics, methodologies, and business of teaching yoga. This course is designed for the student pursuing the Yoga Teacher Training Certificate, a career teaching yoga in the fitness industry, or for those interested in furthering their understanding of the effects of yoga for health, fitness, and performance.  
Hours: 54 Lecture.

**KIN 110**

**Introduction to Fitness and Sport Management**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level, read college-level texts,**

**and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed to introduce the concepts of fitness and sport management, and includes information needed for students who intend to explore the growing industry of administering fitness and sport programs and overseeing small businesses. The course covers areas of facility management, membership/sales, business and finance, facility oversight, equipment, and policies and procedures. In addition, the history and evolution of sport management, organizational functions, management levels, rules and compliance oversight, event management, and leadership will be included. This course is designed for the student pursuing a career in fitness and/or sport management, exploring administration and facility operations, or interested in furthering their understanding of the business of fitness and sport.  
Hours: 54 Lecture.

**KIN 115**

**Fitness Specialist Internship**  
**Units: 2**

**Enrollment requires instructor approval**

**Prerequisite:** KIN 126, KIN 127, KIN 131

**Prerequisite/Corequisite:** KIN 122, KIN 128, KIN 145, KIN 146

**Transfers to:** CSU

This course will provide students with practical experience in the fields of health, fitness, and exercise instruction. Emphasis is placed on participant screening, evaluation, fitness assessment, exercise program design, nutrition and health education, and principles of exercise science. The course includes career preparation, self-marketing and social media, trainer-client relationship building, and professional responsibility in a fitness setting. This course is designed for the student pursuing a career in the fitness industry and/or a Certificate of Achievement in the Fitness Specialist Program, as well as those interested in furthering their understanding of the effects of exercise on the mind and body. Instructor approval is required for enrollment.  
Hours: 18 Lecture. 54 Lab.

**KIN 120**

**Sports Law and Ethics**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This course explores how various bodies of substantive law are applied in the context of the sport industry—both professional and amateur. The course examines the various types of laws that apply to the sport industry (e.g., constitutional, tort, contract, labor, and antitrust) and how these laws are

interpreted to decide legal claims for employment, personal injury, intellectual property, and discriminatory practices; and the legal relationships among athletes, teams, leagues, governing bodies, sports facilities, licensees, broadcasters, and fans. The course will also address the compliance issues and ethical structures that define the sports industry.  
Hours: 54 Lecture.

**KIN 122**

**Nutrition for Sport and Fitness**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU - UC credit limit.

The UC will grant a maximum of 8 units credit for PE Theory courses.

This course provides an overview of the role of nutrition to increase energy and enhance performance. Nutrients such as carbohydrates, lipids, proteins, vitamins, minerals, and water will be introduced. The digestive system and metabolic systems will be discussed. Sport and exercise nutrient needs before, during, and after exercise are evaluated for their effect on optimal health and performance. Carbohydrate loading, popular diets, and supplementation are discussed. This course is designed for the student pursuing a career in the fitness industry; certificates in Fitness Specialist, Coaching of Sport, Sport and Performance Coach, and Community Health Worker; and/or the A.A. in Dance and the A.S. in Sports Medicine, as well as those interested in furthering their understanding of the effects of nutrition on the mind and body.  
Hours: 54 Lecture.

**KIN 126**

**Principles of Strength and Conditioning**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course includes information needed for students who intend to teach strength and conditioning. The course covers anatomy and physiology, bioenergetics, biomechanics, training adaptations, exercise and equipment selection, training techniques, program design, and safety factors. This course is designed for students pursuing a career in the fitness industry; Fitness Specialist, Strength and Performance Coach, or Coaching of Sport Certificates; or an AS in Sports Medicine; and/or students interested in furthering their understanding of the effects of exercise on the body and mind.  
Hours: 54 Lecture.

**KIN 127**

## **Exercise Physiology**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU - UC credit limit.  
The UC will grant a maximum of 8 units credit for PE Theory courses.  
This course provides an overview of the body systems and their functions under conditions of exercise stress, including how fitness training affects health, wellness, and performance. Emphasis will be placed on the muscular, skeletal, cardiovascular, respiratory, endocrine, metabolic/bioenergetic, and neurological systems, as well as the physiological processes that are affected by exercise. The effects of various diseases and exercise immunology will also be addressed. This course is designed for the student pursuing a career in the fitness industry, a Certificate of Achievement in Fitness Specialist or Strength and Performance Coach, the Associate of Arts in Dance, or those interested in furthering their understanding of the effects of exercise on the body and mind.  
Hours: 54 Lecture.

## **KIN 128**

### **Fitness Testing and Exercise Prescription**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU  
This course provides an overview of how to assess and evaluate the results of cardiorespiratory endurance, muscular strength and endurance, flexibility, body fat, pulmonary function, blood pressure, postural analysis, and functional movement. Emphasis is placed on determining appropriate tests, conducting the tests, interpreting results, and creating exercise programs. This course is designed for students pursuing a career in the fitness industry or for the Fitness Specialist and Strength and Performance Coach certificates, as well as those interested in furthering their understanding of the effects of exercise on the body.  
Hours: 54 Lecture.

## **KIN 131**

### **Functional Anatomy of Movement**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU  
This course provides an overview of the study of movement as it relates to exercise under both normal and injury conditions. Students will learn the basic anatomical principals used specifically in the area of human performance.

Emphasis is placed on applying body alignment, range of motion, stabilization, and acceleration principles to the analysis of movement. This course is designed for the student pursuing a career in the fitness industry, a certificate in the Fitness Specialist Program, or those interested in furthering their understanding of the biomechanical effects of exercise on the body.  
Hours: 54 Lecture.

## **KIN 136**

### **Pilates Mat Teaching: Foundations**

**Units:** 3

**Prerequisite:** KINA 136

**Transfers to:** CSU

This course includes foundational information necessary for students interested in teaching Pilates Mat classes. The course will focus on establishing a personal practice in combination with an experiential analysis of the physical fitness system created by Joseph Pilates. The course will also introduce the student to the history and philosophy of Pilates Mat, as well as the methodologies and business of teaching Pilates Mat. This course is designed for students pursuing the proposed Pilates Mat Teacher Training Certificate, a career teaching Pilates Mat in the fitness industry, or for those interested in furthering their understanding of the effects and benefits of Pilates for health, fitness, rehabilitation, and overall physical performance and endurance.  
Hours: 54 Lecture.

## **KIN 145**

### **Theory and Analysis of Fitness Instruction**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an introduction to the principles and techniques involved in teaching group exercise and developing a personal trainer/client relationship. Emphasis is placed on client assessment, communication skills, program design, exercise adherence, teaching strategies, and professional responsibility and liability. This course is designed for the student pursuing a career in the fitness industry, a certificate in the Fitness Specialist Program, as well as those interested in furthering their understanding of the effects of exercise on the mind and body.  
Hours: 36 Lecture.

## **KIN 146**

### **Training Principles for Special Populations**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an overview of the exercise implications for special populations related to age, medical condition, and level of fitness. Emphasis is placed on cardiovascular and respiratory conditions, exercise-induced asthma, metabolic disorders, diabetes, obesity, orthopedic injuries, physical disabilities, auto-immune issues, sensory impairments, mental challenges, geriatrics/seniors, children, pregnant and post-partum women, and the issues and challenges of exercise. This course is designed for the student pursuing a career in the fitness industry; a certificate in Fitness Specialist, Yoga Teacher Training, and Community Health Worker Program; as well as those interested in furthering their understanding of the effects of exercise on the mind and body.  
Hours: 36 Lecture.

## **KIN 157**

### **Theory of Lifeguard Training and Water Safety**

**Units:** 3

**Enrollment requires students to Swim 300 yards continuously. Tread water for two minutes using only the legs. Complete timed swimming, submersion and retrieval event. Swim at American Red Cross Learn-to-Swim Level 4 proficiency. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit.  
The UC will grant a maximum of 8 units of credit for PE Theory courses.

This course is of interest to students who wish to earn the American Red Cross certifications necessary for employment as a pool lifeguard and swimming instructor. This course gives the most current instruction in American Red Cross (ARC) lifeguard training, first aid and cardiopulmonary resuscitation/automated external defibrillation (CPR/AED) skills and Water Safety Instructor (WSI) courses. Upon successful completion, students earn certifications for American Red Cross Lifeguard Training, CPR/AED for the Professional Rescuer, First Aid for Public Safety Personnel (Title 22), and Water Safety Instructor. These certifications enable students to gain eligibility for a pool lifeguarding position and to teach the Learn-to-Swim programs of the American Red Cross. Adequate swimming skills are necessary at the Learn-to-Swim Level 4. Students may petition to re-enroll in the course to renew certifications.  
Hours: 36 Lecture. 54 Lab.

## **KIN 159**

### **Leadership in Sport**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**



**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses. This course takes up leadership theories and the impact of leadership empowerment through sport. The course is designed for students interested in increasing insight into leadership within sport environments by examining philosophical, sociological, and psychological leadership dynamics in individual and team sports from youth through professional levels. The course covers topics such as leadership theories, self-awareness, informal and formal leadership, emotional intelligence theory, athlete motivation, team dynamics, the role of team captains, and communication theories. Hours: 54 Lecture.

#### **KIN 170**

##### **Sport and Exercise Psychology**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses.

This course is designed to improve the athletic performance of individuals and teams within the areas of sport and fitness by introducing students to psychological concepts and skills. Areas of study will include motivation theory, personality and sport, group processes, research methods, and cognitive development in sport performance. The course will examine techniques such as imagery, goal setting, cognitive restructuring, coping, and arousal regulation to help athletes and coaches achieve peak performance. Hours: 54 Lecture. 108 Lab.

#### **KIN 188**

##### **Theory of Coaching**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

The purpose of this course is to examine the philosophical, physiological, sociological, and psychological aspects of the coaching profession. Other aspects that will be studied are the principles used in the effective teaching of sports, athlete motivation, nutrition for athletes from youth through collegiate age groups, leadership, technical and tactical skill training and all components of team management. Hours: 54 Lecture.

#### **KIN 190**

##### **Women in Sports**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses.

This course examines the history, analysis, and interpretation of the people, events, and issues that have affected women in sport historically and in present society. Psychological, sociological, and physiological considerations of female athletes as related to sport, history, and education will be covered. Students gain an understanding of the substantial impact women have had on the sport world, and how their significance will determine the future of women in sport. Hours: 54 Lecture.

#### **KIN 191**

##### **Health: Personal Issues**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses. In addition, students will receive credit for only one of the following: KIN 191, KIN 192, or KIN 196.

This course is designed for all students who are physically active and interested in learning how to improve and maintain their personal health. Topics covered include general health principles, nutrition and diet, physical fitness, stress management, sexuality and reproduction, drug/alcohol use and abuse, consumer and safety issues and the process of death. Students learn how to develop sound health principles through readings, lectures, assignments/labs, and guest speakers. Hours: 54 Lecture.

#### **KIN 192**

##### **Health: Women's Personal Health**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses. In addition, students will receive credit for only one of the following: KIN 191, KIN 192, or KIN 196 or PE Theory courses.

This course is designed for students interested in expanding their knowledge about health problems and social issues that affect women uniquely. Physiological and psychological aspects of nutrition, hygiene, sexuality and reproduction, drugs and chemicals, and common diseases are among the many topics covered. Guest speakers, videos, current events, and web-based as well as text readings help students develop sound health principles for use in everyday life. Hours: 54 Lecture.

#### **KIN 193**

#### **Standard First Aid and C.P.R. (C-ID: KIN 101)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses.

This course is designed for students pursuing a career working with the public and for those who want to further their understanding of handling emergency situations. The student will learn how to give immediate care to the suddenly injured or ill person. In addition, students will learn techniques for control of bleeding, splinting, transporting victims, emergency procedures, one person C.P. R. and the use of an AED. Students will have the opportunity to apply these technical procedures in class. This course fulfills the requirements for American Red Cross certifications in both Standard First Aid, Cardiopulmonary Resuscitation (C.P.R.) and Automatic Defibrillation (AED). Hours: 54 Lecture.

#### **KIN 194**

##### **Introduction to Kinesiology (C-ID: KIN 100)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** CSU

This course is designed for those students who are interested in pursuing a career in the field of kinesiology. The philosophy, history, ethical and scientific foundations of kinesiology will be covered. The concepts of basic movement and performance movement in relationship to kinesiology will be examined. Students will explore the sub-disciplines of motor learning, biomechanics, exercise physiology, sport sociology, sport psychology, and sport nutrition. Professional career opportunities in health/fitness, therapeutic exercise, teaching, coaching and sport management will be examined. The challenges for kinesiology, future of kinesiology, sport and health/wellness are also addressed. Hours: 54 Lecture.

#### **KIN 195**

##### **Social Issues/Media in Sport**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course examines sport as a significant aspect of modern culture and a major institution of contemporary civilization. Students gain an understanding of the impact sport has had in history and politics, and on moral values, ethics, and sociological

issues historically and in present-day society. Topics include gender, race, and ethnicity and their roles in sport; sport as an economic enterprise; social media and sport; sport at the youth, high school, collegiate, professional and international levels; the effects that social class, globalization, and media have on sport; and what future trends will influence the world of sport. Hours: 54 Lecture.

#### **KIN 196**

##### **Health: Fitness and Wellness**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses. Students will receive credit for only one of the following: KIN 191, KIN 192, or KIN 196. This course is designed for all students who are interested in learning the value of lifelong, healthy lifestyles. Students will be given the tools to assist them in making positive life-style changes based on a personal health/fitness profile. Topics covered include: basic anatomy and physiology, nutrition, weight control, tobacco and alcohol, muscle fitness, flexibility, stress reduction, cardiovascular functioning, health topics, disease entities, and preventive health care measures. Hours: 54 Lecture.

#### **KIN 197**

##### **Prevention and Treatment of Athletic Injuries**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 8 units credit for PE Theory courses. This course introduces the most salient concepts of athletic training, including the instruction for prevention, recognition, management, and treatment of common injuries in a physically active population. The skills of basic strapping, bracing, padding, and taping for the prevention and management of injuries are presented and practiced. The course is recommended for students interested in becoming a certified athletic trainer, physical therapist, or occupational therapist. Hours: 54 Lecture.

#### **KIN 226**

##### **Advanced Training Principles for Sport and Tactical Athletes**

**Units:** 3

**Prerequisite:** KIN 122, KIN 126, KIN 127, KIN 128

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units for PE Activity courses. This course is designed to include the necessary information needed for those

intending to assess and teach strength training and performance skills to both sport and tactical athletes. The course covers anatomy and physiology, bioenergetics, biomechanics, training adaptations, physical assessments for strength, agility, power, speed, and quickness, program design, exercise and equipment selection, training techniques, and safety factors. This course is designed for the student pursuing a career in the strength and conditioning area, completing the Strength and Performance Coach Certificate, exploring kinesiology, or for those interested in furthering their understanding of the effects of exercise for strength and performance in sport and tactical athletes. Hours: 54 Lecture.

#### **KIN 290**

##### **Cooperative Work Experience/ Internship for Athletic Training Related Fields**

**Units:** 1-2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Prerequisite/Corequisite:** KIN 197

**Transfers to:** CSU

This course supports and reinforces on-the-job training in the field of athletic training under supervision of a college instructor and is facilitated by the use of learning objectives. Students work in a skilled or professional-level assignment in their area of vocational interest and meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of athletic training and have completed or enrolled in the appropriate coursework. Contact the CWE office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours

Hours: 60-150 Lab.

#### **KIN 297**

##### **Advanced Athletic Training**

**Units:** 3

**Prerequisite:** KIN 197

**Transfers to:** CSU

This course introduces the advanced concepts of athletic training, including instruction for evaluation and rehabilitation of common athletic injuries. Advanced taping and bracing techniques will also be presented and practiced. This class is designed for students interested in becoming a Certified Athletic Trainer or those who are preparing for a career in any allied health care profession. Hours: 54 Lecture.

## **KINESIOLOGY ACTIVITY**

### **Division of Kinesiology, Dance, and Athletics**

**(For Dance courses - see Dance) Dance activity courses may be used in place of P.E. activity courses to fulfill degree requirements.**

**Students may select several different courses or may enroll in a course and continue to the next level of the same course. Courses labeled "I" and "II" fall into the continued instruction category.**

#### **KINA 101**

##### **Tennis I**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE Activity courses.

This beginning tennis class is designed to bring students to a recreational level, skills-wise. Topics include the serve, groundstroke, volley, and rules of the sport. Students also learn how to play doubles and singles matches in order to compete at a recreational level. Hours: 54 Lab.

#### **KINA 102**

##### **Intercollegiate Baseball I**

**Units:** 1

**Students should be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE Activity courses.

This course is designed for students interested in competing in baseball at the collegiate level. Instruction will focus on the introduction of advanced drills in the areas of offense, defense, and pitching. Special attention will be placed on skill development and class participation in preparing students for intercollegiate competition. This course may be taken once and repeated three times for credit. Hours: 54 Lab.

#### **KINA 103**

##### **Softball I**

**Units:** 1

**Students should be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed for the beginning student who wishes to gain the fundamental skills of softball. It is designed to present the following skills to the student; throwing, batting, bunting and defense. Additionally, the individual field positions and the responsibilities of team work will be emphasized. Hours: 54 Lab.



**KINA 104  
Volleyball I**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is a beginning class designed to present the basic fundamental skills and rules of volleyball. The student will have the opportunity to learn and practice serving, setting, and spiking. The student will also participate in team play. This class is appropriate for students who have never played volleyball, are just learning the game or haven't played for an extended period of time and want to refresh their skills. Hours: 54 Lab.

**KINA 105  
Basketball I**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This beginning level course designed for all students will provide instruction in the fundamentals of basketball such as dribbling, passing, shooting, team play, rebounding, defense and strategy. Collegiate rules, class competition, injury prevention and care, and proper diet and fitness needs are included in instruction. The emphasis will be on active participation, basketball as recreation and skill development within this team sport. Hours: 54 Lab.

**KINA 107  
Badminton I**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is a beginning badminton class designed for the student to gain experience of various degrees of competitive play. Instruction in the serve, drive, drop, smash, clears, rules and court etiquette are taught so the student can perform at a competitive level. Hours: 54 Lab.

**KINA 108  
Water Polo I**

**Units:** 1

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is a course in the fundamentals and skills of water polo such as passing, guarding, shooting, team play, and

strategy. Rules and class competition are included.

Hours: 54 Lab.

**KINA 109  
Soccer I**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is a beginning soccer/activity class designed for all students interested in developing the physical, technical and tactical elements of the game of soccer. The course includes fundamental technical skills that include dribbling, passing, kicking, collecting, and basic concepts of offensive and defensive tactics. Rules of the game, skill practice, and participation in recreational soccer matches are included. Hours: 54 Lab.

**KINA 110  
Futsal (Indoor Soccer)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This class provides instruction and repetition in the technical and tactical components of futsal (indoor soccer). The Federation of International Football Association (FIFA), the governing body of soccer in the world, and the United States Soccer Federation (USSF), the governing body of soccer in the United States, recognize futsal as its own sport consisting of a smaller, fast-paced technical game. FIFA Futsal Laws of the Game are introduced to the students. The course develops skills, provides knowledge of the rules, and instructs students to demonstrate futsal techniques, recognize tactical situations, and improve cardiovascular fitness. Hours: 54 Lab.

**KINA 113  
Golf I**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

Golf I is designed for the beginning golfer who wants to gain the essential skills necessary to enjoy the game of golf. Students will learn the fundamentals of a proper grip, stance and swing that will allow them to perform a basic golf swing. Hours: 54 Lab.

**KINA 117  
Swimming I**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is a beginning class designed to equip students with basic water skills and knowledge in order to make them reasonably safe while in the water. It is suitable for all students interested in basic swimming. Hours: 54 Lab.

**KINA 120  
Swim for Fitness**

**Units:** 1

**Advisory:** KINA 117

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is a swimming/fitness course designed to provide the individual who has beginning swimming skills an opportunity to master the fundamentals of physical fitness as they relate to swimming as an aerobic activity. Emphasis will be placed on aerobic training with some training at the anaerobic threshold and anaerobic levels. This class is suitable for all students interested in swimming as a fitness activity. Hours: 54 Lab.

**KINA 130  
Fitness and Wellness Laboratory**

**Units:** 1-2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is a self-paced physical fitness laboratory designed to develop and encourage positive health and wellness attitudes and habits. Topics include cardiovascular fitness, flexibility, body composition, muscular strength, and endurance. Students are assessed in each of these areas, and an individual fitness profile is established. Fitness activities primarily utilize exercises organized into an aerobic super circuit with additional activities prescribed to increase strength and flexibility. Hours: 54-108 Lab.

**KINA 132  
Aqua Aerobics**

**Units:** 1

**It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed to utilize the resistance properties of water to improve muscle tone, flexibility, and cardiovascular health and endurance using various exercise movements. Because water buoyancy will help support joints and muscles, students of

all levels of fitness and abilities will be able to participate in the activity. Students will have the opportunity to improve overall body strength and conditioning through a sequence of exercises done in the water. Students who are overweight, pregnant, elderly, diabetic, or recovering from injuries—or who have been inactive—will find this class appropriate, therapeutic, and beneficial to their health.  
Hours: 54 Lab.

**KINA 134**  
**Cardio Boot Camp**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses. This course is designed for students who want to improve their cardiovascular and core fitness levels. Students learn lifelong skills to improve their health. Workout skills such as core strengthening, cardiovascular fitness, step aerobics, and flexibility training are covered. Instruction includes proper diet, heart rate monitoring, skills proficiency, and fitness program planning.  
Hours: 54 Lab.

**KINA 136**  
**Pilates Mat I**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU  
This course introduces students to the basic Pilates floor exercises, which are designed to increase strength in the abdominal and spinal musculature. Students will engage in activities and exercises designed to increase awareness of body alignment, increase strength in the torso, spine and limbs, increase endurance, learn breathing techniques to utilize in strength training exercises, increase coordination, improve balance, and will learn about the muscle groups and their actions being utilized during traditional Pilates mat work. This course is suitable for students interested in conditioning, dance, Hatha Yoga, athletics, and individuals seeking to increase strength to better support the spine in everyday activities.  
Hours: 54 Lab.

**KINA 139**  
**Cross Training for Fitness**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This cross-training course is designed for the beginning through advanced student who wishes to increase their cardiovascular fitness level through a variety of aerobic and anaerobic activities. It is designed to present the following skills to the student: running, cycling, swimming, interval training and introduction to weight training. Additionally, the student will learn basic definitions and terminology of the current fitness arena, assisting them with fitness as a life-long process using a variety of cardiovascular mediums.  
Hours: 54 Lab.

**KINA 140**  
**Walking for Fitness**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses. This course is designed to meet the needs of daily physical exercise for life long fitness and health. Walking is one of the safest and most effective forms of exercise to improve health, and develop and maintain physical fitness. The course provides cardiovascular conditioning through the activity of walking. Instruction in proper diet, heart rate monitoring, skill proficiency and fitness program planning will be provided to each student. This class is designed for students who are interested in starting an exercise program, or developing an active lifestyle.  
Hours: 54 Lab.

**KINA 147**  
**Off-Season Conditioning For Intercollegiate Sports**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses. This course is designed for all students preparing for specific physical fitness related to off-season intercollegiate athletic participation. The purpose of the course is to develop a level of physical fitness, strength, and conditioning that will enhance an athlete's ability to be successful in intercollegiate competition. This course may be taken once and repeated three times for credit.  
Hours: 54 Lab.

**KINA 148**  
**Strength Training**  
**Units: 1**

**It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU  
This course covers the fundamentals of strength and conditioning. Students are introduced to a variety of routines that

enable them to develop personal strength and conditioning plans.  
Hours: 54 Lab.

**KINA 151**  
**Strength and Conditioning for Intercollegiate Athletics**  
**Units: 1**

**Experience in college athletics, high school varsity athletics or equivalent is recommended: It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units for PE activity courses.

This course is designed for any student preparing to compete on an intercollegiate team. This is an advanced course designed for the student-athlete to improve all of their fitness levels through a variety of strength, flexibility, aerobic and anaerobic activities and technology. The specific demands of the sport will be addressed by the intercollegiate athlete during the off-season and in-season periodization training techniques specific to each sport. The purpose of the course is for the student-athlete to understand and develop a high level of physical fitness, strength and conditioning that will enhance the athlete's ability to be successful in intercollegiate competition. This class may be taken once for credit and repeated three times.  
Hours: 54 Lab.

**KINA 158**  
**Yoga I**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed for the beginning student who would like to learn the fundamental physical Asanas (poses) of Hatha Yoga as well as Pranayama (breathing techniques) and Dhyana (meditation techniques). The goal of the course is to integrate the mind, body, and spirit and to give the student tools to better manage stress, alleviate physical tensions, and encourage optimum fitness. In this introductory course, students learn proper physical alignment in the standing poses (Sun Salutation Series A-C, Warrior 1-2, Downward Dog, Upward Dog, Cobra, Triangle, Crescent), the floor poses (Staff, Lotus, Cobbler, Twists, Backbends), and in elementary inversions (Inverted Leg Rest, Headstand Preparation, Wall-Dog Preparation).  
Hours: 54 Lab.

**KINA 159**  
**Cross Training for Intercollegiate Athletics**  
**Units: 1**

**Enrollment requires participation in Intercollegiate Athletics: It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This cross-training course is designed for advanced intercollegiate athletes who want to increase all aspects of their fitness levels through a variety of strength, flexibility, aerobic and anaerobic activities in order to prepare for intercollegiate athletic competition. The specific physical fitness routines required by intercollegiate athletes during the off-season will be addressed. The purpose of the course is to develop levels of physical fitness, strength, and conditioning that will enhance athletes' abilities to be successful in intercollegiate competition. This course may be taken once and repeated two times for credit.

Hours: 54 Lab.

#### **KINA 170**

##### **Women's Intercollegiate Basketball Team**

**Units:** 1.5

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course is designed for students who will be competing in the sport of women's basketball at the collegiate level. This class is offered for 11 consecutive weeks to run concurrent with the intercollegiate basketball season as determined by the CCCAA governing body. Students will be required to spend a minimum of 7.36 hours a week for 11 weeks preparing for competition with other colleges. This course may be taken once and repeated three times for credit.

Hours: 81 Lab.

#### **KINA 171**

##### **Women's Intercollegiate Tennis Team**

**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units for PE activity courses.

This advanced course is designed to prepare students for intercollegiate competition in the sport of women's tennis. Emphasis will be placed on all aspects of the sport and the academic requirements for transfer and maintaining eligibility. Students will be monitored and encouraged to advance in their academic and athletic skills through the course. This course may be taken once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 172**

##### **Women's Intercollegiate Volleyball Team**

**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an advanced course for students who will be competing at the collegiate level in the sport of women's volleyball. Students will be required to spend a minimum of 10.125 hours a week preparing for competition. This course may be taken once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 173**

##### **Women's Intercollegiate Softball Team**

**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an advanced course designed for students who will be competing at the collegiate level in the sport of women's softball. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be taken once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 176**

##### **Women's Intercollegiate Soccer Team**

**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an advanced course designed to prepare athletes for intercollegiate competition in soccer. Emphasis will be placed on all aspects of the sport as well as the academic requirements for transfer and maintaining eligibility. The student-athletes will be monitored and encouraged to advance in their academic and athletic skills through the course. This course may be repeated three times for credit.

Hours: 162 Lab.

#### **KINA 180**

##### **Men's Intercollegiate Baseball Team**

**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course is designed for students who will be competing in the sport of men's baseball at the collegiate level. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be taken

once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 181**

##### **Men's Intercollegiate Basketball Team**

**Units:** 1.5

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course is designed for students who will be competing at the collegiate level in the sport of men's basketball for pre-season conditioning and play. The course is offered for 11 consecutive weeks to run concurrently with the intercollegiate basketball season as determined by the CCCAA governing body. Students will be required to spend a minimum of 7.36 hours a week for 11 weeks preparing for competition with other colleges. This course may be taken once and repeated three times for credit.

Hours: 81 Lab.

#### **KINA 185**

##### **Men's and Women's Intercollegiate Swim Team**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course is designed for students who will be competing at the collegiate level in the sport of swimming. Students are required to spend a minimum of 10.125 hours per week preparing for competition with other colleges. The course may be taken once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 188**

##### **Men's and/or Women's Intercollegiate Water Polo Team**

**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an advanced course designed for students who will be competing at the collegiate level in the sport of men's and women's water polo. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be taken once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 189**

##### **Men's Intercollegiate Wrestling Team**

**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an advanced course designed for students who will be competing at the collegiate level in the sport of men's wrestling. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be taken once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 190**

**Men's Intercollegiate Soccer Team**  
**Units:** 3

**Students should be able to read college-level texts; High School or Club team experience recommended.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an advanced course designed to prepare athletes for intercollegiate competition in soccer. Emphasis will be placed on all aspects of the sport as well as the academic requirements for transfer and maintaining eligibility. The student-athletes will be monitored and encouraged to advance in their academic and athletic skills through the course. This course may be repeated three times for credit.

Hours: 162 Lab.

#### **KINA 192**

**Women's Intercollegiate Sand Volleyball Team**

**Units:** 3

**High School or Club team experience recommended; It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an advanced course designed for students who will be competing at the collegiate level in the sport of women's sand volleyball. Students are required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be taken once and repeated three times for credit.

Hours: 162 Lab.

#### **KINA 201**

**Tennis II**  
**Units:** 1

**Advisory:** KINA 101

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for all PE activity courses.

This is an intermediate tennis class designed to take the student beyond recreational skills. Advanced instruction in the serve, groundstrokes, volley and playing strategy is given. The lob and smash are introduced.

Hours: 54 Lab.

#### **KINA 202**

#### **Intercollegiate Baseball II**

**Units:** 1

**Enrollment requires participation in Intercollegiate Athletics; It is recommended that students be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for all PE activity courses.

This advanced course is designed for students interested in competing in the sport of men's baseball at the collegiate level. Instruction will focus on advanced drills in the areas of offense, defense, and pitching. Special attention will be placed on preparing students for intercollegiate competition. This course may be taken once and repeated three times for credit.

Hours: 54 Lab.

#### **KINA 203**

**Off Season Softball**

**Units:** 1

**Advisory:** KINA 103

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed for the advanced softball student competing at the collegiate level. Instruction will focus on advanced drills in the area of offense, defense and pitching. Special attention will be placed in preparing students for intercollegiate competition. This course may be repeated three times for credit.

Hours: 54 Lab.

#### **KINA 204**

**Volleyball II**

**Units:** 1

**Advisory:** KINA 104

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed for intermediate volleyball students who have previously played volleyball and are looking to improve their skill and knowledge of the game. Students develop the intermediate skills of setting, serving, passing, spiking, team offense of 6-1, team offense of 5-1, and defensive coverage. Rules and class competition are included.

Hours: 54 Lab.

#### **KINA 205**

**Basketball II**

**Units:** 1

**Prerequisite:** KINA 105 or instructor approval for admission

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed for the intermediate to advanced basketball player who wants advanced level basketball development. Students will participate in full court team play, receive advanced instruction on strategies, offensive and defensive skills and concepts, analyze intercollegiate and professional game film and learn intercollegiate and professional rules.

Hours: 54 Lab.

#### **KINA 206**

**Off Season Women's Intercollegiate Volleyball Training**

**Units:** 1

**Prerequisite:** KINA 172 or participation in Intercollegiate College Athletics

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course is designed for students interested in competing at the collegiate level in the sport of women's volleyball. Instruction will focus on advanced techniques in serving, passing, setting, and hitting; as well as jump serving, jump setting, jump attacking, various defensive patterns, and team play training and conditioning. Special attention will be placed on preparing students for intercollegiate competition. This course may be taken once and repeated three times for credit.

Hours: 54 Lab.

#### **KINA 207**

**Badminton II**

**Units:** 1

**Prerequisite:** KINA 107 or instructor approval for admission

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an intermediate level badminton class designed for the student to develop the ability to make appropriate responses (relative on their own abilities) to the particular problems posed by the game. Advanced instruction is given in the basic strokes as well as the introduction of Indonesian serve, around-the-head shot, hairpin and flick shot.

Hours: 54 Lab.

#### **KINA 209**

**Soccer II**

**Units:** 1

**Prerequisite:** KINA 109

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced soccer activity course is designed for all students interested in developing the physical, technical, and tactical elements of the game of soccer. The course includes analysis of fundamental skills, game strategy, team offense, and team defense through participation and an overview of rules. The advanced course is intended to take students beyond recreational skills. Emphasis is placed on team tactics, strategies, and systems of play.

Hours: 54 Lab.

#### **KINA 210**

**Futsal (Indoor Soccer) II**

**Units:** 1

**Advisory:** KINA 110

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced/intermediate futsal activity class is designed for all students interested in developing the physical, technical speed and elements of the



game of futsal. The course will include game strategy, analysis of fundamental skills, offensive and defensive tactics through small group numbers. Strategies and transitional play will be emphasized.  
Hours: 54 Lab.

#### **KINA 211**

##### **Off Season Intercollegiate Tennis**

**Units:** 1

**Enrollment requires participation in Intercollegiate Athletics; It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course is designed for students interested in competing in the sport of tennis at the collegiate level. Instruction will focus on training and conditioning, and will also include advanced strategies, on court drilling and match play experience. Special attention will be placed on preparing students for intercollegiate competition. This course may be taken once and repeated three times for credit.

Hours: 54 Lab.

#### **KINA 213**

##### **Golf II**

**Units:** 1

**Prerequisite:** KINA 113

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

Golf II is designed for the intermediate to advanced golfer who wants take their golf game beyond basic fundamentals. Every year thousands of people choose golf as their favorite sports activity. Once learned, golf becomes an enjoyable lifetime recreation. Golf II students will build on the skills learned in Golf I. A major portion of class time is spent on the golf course applying the techniques learned in Golf I.

Hours: 54 Lab.

#### **KINA 217**

##### **Swimming II**

**Units:** 1

**Advisory:** KINA 117

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This is an intermediate class designed to provide the individual with the opportunity to learn the elements of good swimming. Students will sharpen their technique in the basic strokes learned in Swim I. Basic components of distance training will be covered along with conditioning methods. Safety and rescue skills are also included.

Hours: 54 Lab.

#### **KINA 230**

##### **Fitness and Wellness Laboratory II**

**Units:** 1-2

**Prerequisite:** KINA 130

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is a self-paced physical fitness laboratory designed to develop and encourage positive health and wellness attitudes and habits. The course provides students with the skills and information needed to improve cardiovascular fitness through activities like running, rowing, cycling, core training, aerobic activity, aerobic circuit, and resistance bands. Students learn about the importance of nutrition, blood pressure, heart rate, and exercise target zones in relation to cardiovascular disease.  
Hours: 54-108 Lab.

#### **KINA 236**

##### **Pilates Mat II**

**Units:** 1

**Prerequisite:** KINA 136

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

KINA 236 is a continuation of KINA 136, and builds upon the basic Pilates Mat exercises covered in KINA 136. The exercises in this course are designed to further increase strength in the abdominal and spinal musculature. Students engage in exercises and learn how to utilize props (e.g., magic circles, stretch/exercise bands, mini balls, gliders, and hand weights) designed to further increase awareness of body alignment, torso strength, and spine and limbs as well as to increase endurance while fine-tuning breathing techniques utilized in strength training exercises. Additionally, students advance their coordination and balance, and learn about the muscle groups and their actions being utilized during traditional Pilates Mat work. This course is suitable for students interested in conditioning, dance, athletics, and fitness, or those seeking to increase overall strength to better support the spine in everyday activities. The course is required for the Mat Pilates Teacher Training Certificate.  
Hours: 54 Lab.

#### **KINA 258**

##### **Yoga II**

**Units:** 1

**Prerequisite:** KINA 158

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This course is designed for intermediate students who would like to advance their physical asanas (poses) of Hatha Yoga as well as Pranayama (breathing techniques) and Dhyana (meditation techniques). The goal of the course is to integrate the mind, body, and spirit and to further challenge the students in their physical practice by increasing sustainment, perfecting alignment, and by incorporating twists and wraps. Parivrtta Trikonasana, Prasara Padottanasana, Malasana, Garudasana, Natasajasana, Utthita Hasta Padangustasana, Chaturanga Dandasana, Purvottanasana, Navasana, Virasana, Ustrasana, Matsyasana,

Sarvangasana, Surya Namaskar B will be covered in depth during the course.  
Hours: 54 Lab.

#### **KINA 270**

##### **Women's Intercollegiate Basketball Team II**

**Units:** 1.5

**Prerequisite:** KINA 170

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course is designed for students who will be competing in the sport of women's basketball at the collegiate level during conference play. This class is offered for 11 consecutive weeks to run concurrent with the intercollegiate basketball season as determined by the CCCAA governing body. Students will be required to spend a minimum of 7.36 hours a week for 11 weeks preparing for competition with conference colleges. This course may be taken once and repeated three times for credit.

Hours: 81 Lab.

#### **KINA 276**

##### **Off-Season for Intercollegiate Soccer Units: 1**

**Advisory:** KINA 176 or competitive organized soccer experience (club or high school varsity)

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced soccer/activity class for the intercollegiate level player will stress soccer training, technical skills, knowledge, strategy, and an understanding of team play. The course is intended for students with varsity intercollegiate experience who compete currently or are preparing to play competitive intercollegiate soccer. This course may be taken once and repeated three times for credit.  
Hours: 54 Lab.

#### **KINA 281**

##### **Men's Intercollegiate Basketball Team II**

**Units:** 1.5

**Prerequisite:** KINA 181

**Transfers to:** UC/CSU - UC credit limit. The UC will grant a maximum of 4 units credit for PE activity courses.

This advanced course designed for students who will be competing at the collegiate level in the sport of men's basketball during conference and post-season play. This class is offered for 11 consecutive weeks to run concurrent with the intercollegiate basketball season as determined by the CCCAA governing body. Students will be required to spend a minimum of 7.36 hours a week for 11 weeks preparing for competition with conference colleges. This course may be taken once and repeated three times for credit.

Hours: 81 Lab.

## LIBRARY

### Division of Library and Instructional Support

#### LIB 101

##### Research Skills and Information Literacy

Units: 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Advisory:** CIT 051

**Transfers to:** UC/CSU

This course promotes information literacy by introducing students to the resources available in an academic library which includes books, online catalogs, subscription databases, and other online sources. Students learn how to identify and focus on an information need, apply appropriate search tools, analyze and evaluate information and search strategies, and use information ethically and legally. Students learn critical thinking skills and research strategies to find information for college-level research assignments, career demands, and lifelong learning. Hours: 54 Lecture.

## LITERATURE

### Division of Communications and Languages

#### LIT 102

##### Approaches to Literature (C-ID: ENGL 120)

Units: 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 102 or LIT 102H

This course is designed for students who wish to study the four general literary forms: poetry, drama, short story, and novel. Emphasis is placed on critical thinking, critical reading, and composing. Compositions will be based upon discussion, analysis and interpretations of literature, and upon the relationship of Western and Non-Western literature to contemporary thought. Hours: 54 Lecture.

#### LIT 102H

##### Approaches to Literature Honors (C-ID: ENGL 120)

Units: 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 102 or LIT 102H

This course is designed for students who wish to study the four general literary forms: poetry, drama, short story, and novel. Emphasis will be placed on critical thinking, critical reading, and composing. Compositions will be based upon discussion, analysis and interpretations of literature, and upon the relationship of Western and Non-Western literature to contemporary thought. This course is intended for students eligible for the Honors Program. Hours: 54 Lecture.

#### LIT 112A

##### American Literature through 1865 (C-ID: ENGL 130)

Units: 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 112A or LIT 112AH

This course explores a range of American literature, with a focus on major texts and writers from early settlement to 1865. Representative writers include Bradstreet, Bradford, Franklin, Douglass, Paine, Lincoln, Emerson, Thoreau, Poe, Melville, and Dickinson. Course reading and writing assignments explore major cultural and historical themes, including the pre-colonial exploration of the Americas, Native American literary contributions, the Revolutionary and Civil Wars, transcendentalism, and romanticism. This course is designed for students interested in exploring various genres of literature or learning more about cultural expression in the Americas, and students majoring in English or liberal studies. Hours: 54 Lecture.

#### LIT 112AH

##### American Literature through 1865 Honors (C-ID: ENGL 130)

Units: 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 112A or LIT 112AH

This course explores a range of American literature, with a focus on major texts and writers from early settlement to 1865. Representative writers include Bradstreet, Bradford, Franklin, Douglass, Paine, Lincoln, Emerson, Thoreau, Poe, Melville, and Dickinson. Course reading and writing assignments explore major cultural and historical themes, including the pre-colonial exploration of the Americas, Native American literary contributions, the Revolutionary and Civil Wars, transcendentalism, and romanticism. This course is designed for students interested in exploring various genres of literature or learning more about cultural expression in the Americas, and

students majoring in English or liberal studies. This course is designed for students eligible for the Honors Program. Hours: 54 Lecture.

#### LIT 112B

##### American Literature after 1865 (C-ID: ENGL 135)

Units: 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 112B or LIT 112BH

This course is designed for students interested in exploring American literature from the middle nineteenth century to the present. Through class discussions and written essays, the course introduces students to representative writers of this period, including Emily Dickinson, Mark Twain, Edith Wharton, Robert Frost, Zora Neale Hurston, William Faulkner, Ernest Hemingway, Tennessee Williams, Lorraine Hansberry, David Henry Hwang, Toni Morrison, Leslie Marmon Silko, Maxine Hong Kingston, Milcha Sanchez-Scott, and others. Hours: 54 Lecture.

#### LIT 112BH

##### American Literature after 1865 Honors (C-ID: ENGL 135)

Units: 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 112B or LIT 112BH

This course is designed for students interested in exploring American literature from the middle nineteenth century to the present. Through class discussions and written essays, the course introduces students to representative writers of this period, including Emily Dickinson, Mark Twain, Edith Wharton, Robert Frost, Zora Neale Hurston, William Faulkner, Ernest Hemingway, Tennessee Williams, Lorraine Hansberry, David Henry Hwang, Toni Morrison, Leslie Marmon Silko, Maxine Hong Kingston, Milcha Sanchez-Scott, and others. This course is intended for students eligible for the Honors Program. Hours: 54 Lecture.

#### LIT 114

##### Children's and Adolescent Literature (C-ID: ENGL 180)

Units: 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 114 or LIT 114H

This course is an introduction to children's and adolescent literature in



its three general literary forms: the short story (including myths, legends, fairy tales, and folk tales), the novel, and poetry. Stress is placed upon critical thinking, critical reading, and composing. The course explores works of children's literature from ancient times to the present, analyzes the literary elements of these works, assesses their value for both children and adults, and examines the historical periods and cultural environments in which they were written. This course is beneficial for English majors, students planning to transfer to a university, parents, and future elementary and secondary teachers.  
Hours: 54 Lecture.

#### LIT 114H

##### **Children's and Adolescent Literature Honors (C-ID: ENGL 180)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 114 or LIT 114H

This course is an introduction to children's and adolescent literature in its three general literary forms: the short story (including myths, legends, fairy tales, and folk tales), the novel, and poetry. Stress is placed upon critical thinking, critical reading, and composing. The course explores works of children's literature from ancient times to the present, analyzes the literary elements of these works, assesses their value for both children and adults, and examines the historical periods and cultural environments in which they were written. This course is beneficial for English majors, students planning to transfer to a university, parents, and future elementary and secondary teachers. This course is designed for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### LIT 117

##### **Mexican Literature in Translation**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 117 or LIT 117H

This course explores a range of Mexican literature in English translation, with a focus on major literary influences and achievements from the pre-Hispanic era to the twentieth century. Course reading and writing assignments explore indigenous literatures and myths, chronicles of the Spanish conquest, literature of the colonial period, high culture and folklore of the eighteenth century, political and modernist literature of the nineteenth century, and poetry and prose of the twentieth century. This course is

designed for students interested in exploring various genres of literature and/or interested in learning more about Mexican cultural expression, and students majoring in Chicano Studies.  
Hours: 54 Lecture.

#### LIT 117H

##### **Mexican Literature in Translation Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 117 or LIT 117H

This course explores a range of Mexican literature in English translation, with a focus on major literary influences and achievements from the pre-Hispanic era to the twentieth century. Course reading and writing assignments explore indigenous literatures and myths, chronicles of the Spanish conquest, literature of the colonial period, high culture and folklore of the eighteenth century, political and modernist literature of the nineteenth century, and poetry and prose of the twentieth century. This course is designed for students interested in exploring various genres of literature and/or interested in learning more about Mexican cultural expression, and students majoring in Chicano Studies. This course is designed for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### LIT 130

##### **Women and Literature**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 130 or LIT 130H

This course explores women writers—their lives, the roles they play in culture and society, and how they have influenced the world. Students examine topics such as female authorship, literary influence, the evolution of technique, effects of race and class, and the historic and cultural environments in which works were written. Stress is placed on critical thinking, critical reading, and composing. Feminist, literary, and political theory are explored. Special emphasis may be placed on a period, genre, theme, or literary grouping. This course is beneficial for English majors, students planning to transfer to a university, and anyone interested in learning about women and literature.  
Hours: 54 Lecture.

#### LIT 130H

##### **Women and Literature Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 130 or LIT 130H

This course explores women writers—their lives, the roles they play in culture and society, and how they have influenced the world. Students examine topics such as female authorship, literary influence, the evolution of technique, effects of race and class, and the historic and cultural environments in which works were written. Stress is placed on critical thinking, critical reading, and composing. Feminist, literary, and political theory are explored. Special emphasis may be placed on a period, genre, theme, or literary grouping. This course is beneficial for English majors, students planning to transfer to a university, and anyone interested in learning about women and literature. This course is intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### LIT 140

##### **Introduction to the Novel**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 140 or LIT 140H

This course introduces students to a variety of approaches to the novel. Course readings focus on novels selected from different historical periods and within a variety of cultural traditions. Students gain an understanding of the features that distinguish the novel as a literary genre, including narrative structure, point of view, character development, setting, theme, style, imagery, and symbolism. This course is designed for students interested in learning more about literary expression, and students intending to major in a literary- or arts-related field of study.  
Hours: 54 Lecture.

#### LIT 140H

##### **Introduction to the Novel Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 140 or LIT 140H

This course introduces students to a variety of approaches to the novel. Course readings focus on novels selected from different historical periods and within a variety of cultural traditions. Students gain an understanding of the features that distinguish the novel as a literary genre, including narrative structure, point of

view, character development, setting, theme, style, imagery, and symbolism. This course is designed for students interested in learning more about literary expression, and students intending to major in a literary- or arts-related field of study. This course is intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### **LIT 141**

##### **Introduction to Poetry**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 141 or LIT 141H

This course introduces students to a variety of approaches to poetry. Course readings include poems on diverse topics representing poetry's fundamental modes, historical periods, and cultural traditions. Students gain an understanding of the features that distinguish poetry as a literary genre, including techniques of sound, tropes and figurative language, and thematic development. The course is appropriate for both English majors and those students who want to expand their knowledge and appreciation of poetry.  
Hours: 54 Lecture.

#### **LIT 141H**

##### **Introduction to Poetry Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 141 or LIT 141H

This course introduces students to a variety of approaches to poetry. Course readings include poems on diverse topics representing poetry's fundamental modes, historical periods, and cultural traditions. Students gain an understanding of the features that distinguish poetry as a literary genre, including techniques of sound, tropes and figurative language, and thematic development. The course is appropriate for English majors as well as students who want to expand their knowledge and appreciation of poetry. This course is intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### **LIT 142**

##### **Introduction to Shakespeare**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 142 or LIT 142H

This course is designed for students who wish to increase their knowledge

and appreciation of Shakespeare's art, his life and times, and his exploration of the human condition. The major works of Shakespeare are explored in the context of the dramatic genre, the Elizabethan theater, and the social, religious, and political milieu of Renaissance England. Representative tragedies, comedies, histories, romances, poetry, and sonnet cycles are studied.  
Hours: 54 Lecture.

#### **LIT 142H**

##### **Introduction to Shakespeare Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 142 or LIT 142H

This course is designed for students who wish to increase their knowledge and appreciation of Shakespeare's art, his life and times, and his exploration of the human condition. The major works of Shakespeare are explored in the context of the dramatic genre, the Elizabethan theater, and the social, religious, and political milieu of Renaissance England. Representative tragedies, comedies, histories, romances, poetry, and sonnet cycles are studied. This course is intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### **LIT 143**

##### **Exploring Authors**

**Units:** 1

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** CSU

This one-unit course is designed for students who want to study the literary works of one author in depth. Students compare and contrast all genres and literary criticism of the author's works in class discussions and in essay form. Students should consult the class schedule for the author selection as it varies each semester.  
Hours: 18 Lecture.

#### **LIT 143H**

##### **Exploring Authors Honors**

**Units:** 1

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** CSU

This one-unit course is designed for students who want to study the literary works of one author in depth. Students compare and contrast all genres and literary criticism of the author's works in class discussions and in essay form. Students should consult the class schedule for the author selection as it varies each semester. This course is designed for students eligible for the Honors Program.  
Hours: 18 Lecture.

#### **LIT 144A**

##### **World Literature: Antiquity through the 16th Century (C-ID: ENGL 140)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 144A or LIT 144AH.

This course introduces students to a wide range of world literature from antiquity, the Middle Ages, and the Renaissance. Although emphasis is placed on continental literature and Western civilization, the course may include significant works from African, Asian, Middle Eastern, and/or Latin American traditions. Course reading and writing assignments emphasize literary periods and literary history, the different genres of literary expression, and literature as a reflection of major cultural events and beliefs. This course is designed for students interested in learning more about literary expression and students intending to major in a literary or arts-related field of study.  
Hours: 54 Lecture.

#### **LIT 144AH**

##### **World Literature: Antiquity through the 16th Century Honors (C-ID: ENGL 140)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 144A or LIT 144AH.

This course introduces students to a wide range of world literature from antiquity, the Middle Ages, and the Renaissance. Although emphasis is placed on continental literature and Western civilization, the course may include significant works from African, Asian, Middle Eastern, and/or Latin American traditions. Course reading and writing assignments emphasize literary periods and literary history, the different genres of literary expression, and literature as a reflection of major cultural events and beliefs. This course is designed for students interested in learning more about literary expression and students intending to major in a literary or arts-related field of study. It is intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### **LIT 144B**

##### **World Literature: 16th Century to the Present (C-ID: ENGL 145)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 144B or LIT 144BH

This course introduces students to a wide range of world literature from the seventeenth century to the present. Although emphasis is placed on continental literature and Western civilization, the course may include significant works from African, Asian, Middle Eastern, and/or Latin American traditions. Course reading and writing assignments emphasize the European Enlightenment, romanticism, realism, modernism, and literature as a reflection of major cultural events and beliefs. This course is designed for students interested in learning more about literary expression and students intending to major in a literary or arts-related field of study. LIT 144A need not be taken before LIT 144B.  
Hours: 54 Lecture.

**LIT 144BH**  
**World Literature: 16th Century to the Present Honors (C-ID: ENGL 145)**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 144B or LIT 144BH

This course introduces students to a wide range of world literature from the seventeenth century to the present. Although emphasis is placed on continental literature and Western civilization, the course may include significant works from African, Asian, Middle Eastern, and/or Latin American traditions. Course reading and writing assignments emphasize the European Enlightenment, romanticism, realism, modernism, and literature as a reflection of major cultural events and beliefs. This course is designed for students interested in learning more about literary expression and students intending to major in a literary or arts-related field of study. LIT 144AH need not be taken before LIT 144BH; both courses are intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

**LIT 145**  
**Introduction to the Short Story**  
**Units: 3**  
**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or eligibility for college composition. It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 145 or LIT 145H  
This course is designed for students interested in exploring short fiction from a variety of different periods and traditions in order to increase appreciation, understanding, and enjoyment of its various forms and techniques. Students will compare and contrast authors' works in writing and class discussion. The course emphasizes

the short story as a genre from the Nineteenth century to the present.  
Hours: 54 Lecture.

**LIT 145H**  
**Introduction to the Short Story Honors**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 145 or LIT 145H

The course is designed for students interested in exploring short fiction from a variety of different periods and traditions in order to increase appreciation, understanding, and enjoyment of its various forms and techniques. Students will compare and contrast authors' works in writing and class discussion. The course emphasizes the short story as a genre from the Nineteenth century to the present. This course is designed for students eligible for the Honors Program.  
Hours: 54 Lecture.

**LIT 146A**  
**British Literature through 1785 (C-ID: ENGL 160)**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 146A or LIT 146AH

This course is designed for students interested in learning about British literature from the Old English period (circa 450 until circa 1150 C.E.) to the beginning of the nineteenth century. Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, Boswell, and Fielding are among the major British writers that are discussed in the course.  
Hours: 54 Lecture.

**LIT 146AH**  
**British Literature through 1785 Honors (C-ID: ENGL 160)**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 146A or LIT 146AH

This course is designed for students interested in learning about British literature from the Old English period (circa 450 until circa 1150 C.E.) to the beginning of the nineteenth century. Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, Boswell, and Fielding are among the major British writers that are discussed in the course. This course is designed for students eligible for the Honors Program.  
Hours: 54 Lecture.

**LIT 146B**  
**British Literature after 1785 (C-ID: ENGL 165)**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 146B or LIT 146BH

This course is designed for students interested in learning about British literature written from the beginning of the nineteenth century to the present. Austen, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and T.S. Eliot are among the major writers that are discussed in the course.  
Hours: 54 Lecture.

**LIT 146BH**  
**British Literature after 1785 Honors (C-ID: ENGL 165)**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 146B or LIT 146BH

This course is designed for students interested in learning about British literature written from the beginning of the nineteenth century to the present. Austen, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and T.S. Eliot are among the major writers that are discussed in the course. The course is designed for students eligible for the Honors Program.  
Hours: 54 Lecture.

**LIT 147**  
**Cinema as Literature**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 147 or LIT 147H

This course is intended for students interested in learning about the aesthetics of filmmaking, especially with regard to the adaptation of literature to the cinematic medium. Films are analyzed and evaluated according to their historical, social, cultural, aesthetic, and technical significance. Both American and international filmmaking will be covered.  
Hours: 54 Lecture.

**LIT 147H**  
**Cinema as Literature Honors**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 147 or LIT 147H

This course is intended for students interested in learning about the aesthetics of filmmaking, especially with regard to the adaptation of literature to the cinematic medium. Films are analyzed and evaluated according to their historical, social, cultural, aesthetic, and technical significance. Both American and international filmmaking will be covered. The course is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

#### **LIT 148**

##### **Introduction to Dramatic Literature**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 148 or LIT 148H

This course introduces students to a wide range of dramatic literature, from the plays of ancient Greece to contemporary drama, via representative plays from several literary periods. Course reading and writing assignments emphasize dramatic form and structure, the aesthetics of drama, and drama as a reflection of major cultural events and beliefs. This course is designed for students interested in a detailed exploration of a specific genre of literature, intending to major in a literary or arts-related field of study, and/or intending to enter the teaching profession.

Hours: 54 Lecture.

#### **LIT 148H**

##### **Introduction to Dramatic Literature Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 148 or LIT 148H

This course introduces students to a wide range of dramatic literature, from the plays of ancient Greece to contemporary drama, via representative plays from several literary periods. Course reading and writing assignments emphasize dramatic form and structure, the aesthetics of drama, and drama as a reflection of major cultural events and beliefs. This course is designed for students interested in a detailed exploration of a specific genre of literature, intending to major in a literary or arts-related field of study, and/or intending to enter the teaching profession. This course is intended for students eligible for the Honors Program.

Hours: 54 Lecture.

#### **LIT 149**

##### **Introduction to Chicana/o/x Literature**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 149 or LIT 149H

This course explores a range of Chicana/o/x literature, with a focus on major texts from 1848 to the present. Course reading and writing assignments explore major cultural themes, including identity issues. Assigned readings may comprise a variety of forms and genres including essays, poetry, fiction, oral histories, corridos, and autobiography by writers from the Southwest. This course is designed for students interested in exploring various forms genres of literature, learning more about Chicana/o/x cultural expression, and/or majoring in Chicana/o/x Studies.

Hours: 54 Lecture.

#### **LIT 149H**

##### **Introduction to Chicana/o/x Literature Honors**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: LIT 149 or LIT 149H

This course explores a range of Chicana/o/x literature, with a focus on major texts from 1848 to the present. Course reading and writing assignments explore major cultural themes, including identity issues. Assigned readings may comprise a variety of forms and genres including essays, poetry, fiction, oral histories, corridos, and autobiography by writers from the Southwest. This course is designed for students interested in exploring various forms genres of literature, learning more about Chicana/o/x cultural expression, and/or majoring in Chicana/o/x studies. This course is intended for students eligible for the Honors Program.

Hours: 54 Lecture.

#### **LIT 299**

##### **Directed Study: Literature**

**Units:** 1-3

**Prerequisite:** ENGL 101

**Transfers to:** CSU  
Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title 5 regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## **LOGISTICS**

### **Division of Business**

#### **LOG 101**

##### **Supply Chain Management**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and have knowledge of elementary algebra.**

**Advisory:** CIT 051

**Transfers to:** CSU

This course is designed for students seeking a career in logistics or supply chain management. The course presents the tools and techniques for the design and improvement of any supply chain, through the optimal use of information, materials, and technology to improve efficiency and reduce costs. Students examine the processes for planning, sourcing, making, delivering, and returning products in order to integrate suppliers and customers into an organization's supply chain. Students also receive an overview of career opportunities within the logistics and supply chain management field.

Hours: 54 Lecture.

#### **LOG 105**

##### **Purchasing Management**

**Units:** 3

**Advisory:** CIT 051, ECON 101 or ECON 102, LOG 101

**Transfers to:** CSU

This course is intended for students seeking a career in logistics or supply chain management. This course explores the basic purchasing functions including establishing purchasing requirements and quantities, developing purchasing policies and procedures, receiving acceptable goods, arranging for packaging and shipping, managing inventory control,



and the integration of the purchasing activities with other business functions.  
Hours: 54 Lecture.

#### **LOG 110**

##### **Warehouse Management**

**Units:** 3

**Advisory:** CIT 051, ECON 101, LOG 101

**Transfers to:** CSU

This course is intended for students seeking a career in logistics or supply chain management. The course provides warehouse managers, supervisors, distribution center leaders, and warehouse personnel with a pathway to gain and apply practical skills in warehouse design, layout planning, the safe storage of inventory, identifying appropriate material handling equipment, and quality control of warehouse services. Topics include industry terminology, modern warehouse management system tools, industry quality standards, and warehouse contracting.  
Hours: 54 Lecture.

#### **LOG 115**

##### **Inventory Management**

**Units:** 3

**Advisory:** ACCT 100, CIT 051, LOG 101

**Transfers to:** CSU

This course is intended for students seeking a career in logistics or supply chain management. The course reviews the concepts and techniques available for planning and controlling inventories. Students will examine methods to determine the appropriate amount of inventory to carry; the relationship between inventory as a physical asset and an accounting asset; the difference between raw material, work-in-process, and finished goods inventories; controlling the physical locations of inventory; recognizing and analyzing inventory dysfunctions; bar code technologies; and protecting inventory from natural, technological, and man-made disasters.  
Hours: 54 Lecture.

#### **LOG 120**

##### **Transportation Management**

**Units:** 3

**Advisory:** CIT 051, LOG 101

**Transfers to:** CSU

This course is intended for students seeking a career in logistics or supply chain management. The course provides a study of traffic management principles and techniques that facilitate distribution of the world's commerce. Topics covered in the course include analysis of the major forms of transportation, such as motor, rail, air, water, pipeline, inter-modal, and international; the integration of transportation forms into a distribution system; carrier management and selection, including rate structures, scheduling, outsourcing, private fleet operations, and transportation customers; government regulations on tariffs; and transportation of hazardous materials.  
Hours: 54 Lecture.

#### **LOG 125**

##### **Contract Management**

**Units:** 3

**Advisory:** BUSL 110 or LOG 101

**Transfers to:** CSU

This course is designed for students seeking a career in logistics or supply chain management. The course provides a study of the legal and regulatory requirements applicable to contracts for product transportation and logistics functions, as well as considerations for drafting and negotiating contracts with freight carriers, warehousemen, and other logistics service providers.  
Hours: 54 Lecture.

#### **LOG 130**

##### **Computerized Logistics**

**Units:** 3

**Advisory:** CIT 051, LOG 101 or LOG 115

**Transfers to:** CSU

This course is intended for students seeking a career in logistics or supply chain management. The course covers the need and use of computers in the supply chain and logistics industry, as well as an introduction to available, related software (e.g., enterprise resource planning, demand planning, and warehouse management applications). Emphasis is placed on the need to balance supply with demand through mathematical models and computerized analysis.  
Hours: 54 Lecture.

#### **LOG 135**

##### **Quality Management Concepts**

**Units:** 3

**Advisory:** LOG 101 or LOG 105

**Transfers to:** CSU

This course is intended for students seeking a career in logistics or supply chain management. The course covers the basic principles, objectives, and policies of a quality management program. Topics include the implementation of continuous quality improvement and understanding various quality philosophies such as Deming's 14 Points, process management, ISO 9000 certification, Six Sigma efforts, Baldrige Award criteria, and an introduction to statistical process control.  
Hours: 54 Lecture.

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Corequisite:** MATH 130

This support course is designed to develop the mathematical knowledge and study skills necessary for successful completion of statistics (MATH 130). Students must be concurrently enrolled in a section of MATH 130 to take this support course. Topics from algebra and intermediate algebra are covered to build a foundation for college-level statistics. Strategic reading, critical thinking and problem solving are incorporated to build the strategies needed to solve contextualized problems. Topics in the area of study skills are also included to support students in a college level math course. This is a non-degree applicable course offered on a pass-no pass basis.  
Hours: 18 Lecture.

#### **MATH 015E**

##### **Essential Topics for Survey of Mathematics**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Corequisite:** MATH 150

This support course is designed to develop the mathematical knowledge and study skills needed to complete MATH 150 (Survey of Mathematics) successfully. Topics from intermediate algebra and geometry are covered to build a foundation for college-level quantitative reasoning. Additionally, strategic reading and critical thinking are taken up to build the strategies needed to solve contextualized problems. Topics in the area of study skills and metacognition are also included to support students in a college-level math course. This is a non-degree-applicable course offered on a pass/no-pass basis.  
Hours: 36 Lecture.

#### **MATH 016E**

##### **Essential Topics for College Algebra**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Corequisite:** MATH 160

This support course is designed to develop the mathematical knowledge and study skills necessary for successful completion of MATH 160: College Algebra. Students must be concurrently enrolled in a College Algebra course to take this support course. Topics from intermediate algebra are covered to build a foundation for success in college-level algebra. Strategic reading, critical thinking, and problem solving are incorporated to build the strategies needed to solve contextualized problems. Topics in the area of study skills and metacognition are also

## **MATHEMATICS**

### **Division of Mathematics, Sciences, and Engineering**

**\*For course selection, click on link or see page 464 PDF version:**

<https://www.riohondo.edu/mathematics-and-sciences/wp-content/uploads/sites/43/2021/05/2021Apr22MathPathwaysChart.pdf>

#### **MATH 013E**

##### **Essential Topics for Statistics**

**Units:** 1

included to support students in a college-level math course. This is a non-degree applicable course offered on a pass-no pass basis.  
Hours: 18 Lecture.

**MATH 017E**  
**Essential Topics for Plane Trigonometry**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Corequisite:** MATH 175

This support course is designed to develop the mathematical knowledge and study skills necessary for successful completion of Math 175: Plane Trigonometry. Students must be concurrently enrolled in a trigonometry course to take this support course. Topics from intermediate algebra are covered. Strategic reading, critical thinking and problem solving are incorporated to build the strategies needed to solve contextualized problems. Topics in the area of study skills and metacognition are also included to support students in a college level math course. This is a non-degree applicable course offered on a pass-no pass basis.  
Hours: 18 Lecture.

**MATH 018E**  
**Essential Topics for Pre-Calculus**  
**Units: 1**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Corequisite:** MATH 180

This support course is designed to develop the mathematical knowledge and study skills necessary for successful completion of pre-calculus (Math 180). Students must be concurrently enrolled in a section of MATH 180 to take this support course. Topics from intermediate algebra and trigonometry are covered to build a foundation for college-level quantitative reasoning. Strategic reading, critical thinking and problem solving are incorporated to build the strategies needed to solve contextualized problems. Topics in the area of study skills are also included to support students in a college level math course. This is a non-degree applicable course offered on a pass-no pass basis.  
Hours: 18 Lecture.

**MATH 130**  
**Statistics (C-ID: MATH 110)**  
**Units: 4**

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of a pre-statistics course or intermediate algebra course.**

**Advisory:** ENGL 101, READ 101

**Transfers to:** UC/CSU - UC credit limit. The UC will grant credit for only one of the following courses: MATH 130 or MATH 130H or PSY 190

This course is designed for students majoring in business, social sciences, and life sciences. This course provides an overview of descriptive and inferential statistics. Students learn to read, interpret, and present data in a well-organized way via a study of frequency distributions, graphs, measures of central tendency and variability, correlation, and linear regression. While discussing inferential statistics, students learn to make generalizations about populations, including probability, sampling techniques, confidence intervals, and hypothesis tests.  
Hours: 72 Lecture.

**MATH 130H**  
**Statistics Honors (C-ID: MATH 110)**  
**Units: 4**

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of a pre-statistics or intermediate algebra course.**

**Prerequisite:** ENGL 101

**Advisory:** READ 101

**Transfers to:** UC/CSU - UC credit limit. The UC will grant credit for only one of the following courses: MATH 130 or MATH 130H or PSY 190

This course is designed for students majoring in business, social sciences, and life sciences. This course provides an overview of descriptive and inferential statistics. Students learn to read, interpret, and present data in a well-organized way via a study of frequency distributions, graphs, measures of central tendency and variability, correlation, and linear regression. While discussing inferential statistics, students learn to make generalizations about populations, including probability, sampling techniques, confidence intervals, and hypothesis tests. This course is intended for students who meet Honors Program requirements.  
Hours: 72 Lecture.

**MATH 140**  
**Mathematics for Elementary Teachers (C-ID: MATH 120)**  
**Units: 4**

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an intermediate algebra course.**

**Transfers to:** UC/CSU

This course is designed to deepen and extend the student's understanding of the foundations of the mathematics taught in elementary school. Because it is intended for the student preparing to teach at that level, it frequently refers to and uses materials and methodology appropriate for students at that level, but it is not a methods course. The course is concept-driven with an emphasis on problem solving. Concrete manipulatives are used to give meaning to abstract mathematical concepts. Topics include numeration and place value concepts, models and algorithms

for operations with whole numbers, integers, fractions and decimals, and the structure and properties of the real number system.  
Hours: 90 Lecture.

**MATH 150**  
**Survey of Mathematics**  
**Units: 3**

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an intermediate algebra course.**

**Transfers to:** UC/CSU

In this course students will learn to read and understand quantitative information, solve practical problems, and make sound decisions using numbers. Topics include consumer applications, logic, probability, statistics, algebra, and geometry. This course is for students who need a quantitative reasoning course for graduation or transfer.  
Hours: 54 Lecture.

**MATH 160**  
**College Algebra (C-ID: MATH 150)**  
**Units: 4**

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an intermediate algebra course.**

**Transfers to:** UC/CSU - UC credit limit.

Students will receive a maximum of 5 units credit for MATH 160 and MATH 180 combined.

This course covers linear, quadratic, polynomial, power, exponential, and logarithmic functions and their applications from a graphical, numerical, and analytical point of view. The course also covers systems of equations and inequalities and sequences and series. This course serves as preparation for students planning to take Elements of Calculus (MATH 170).  
Hours: 72 Lecture.

**MATH 170**  
**Elements of Calculus (C-ID: MATH 140)**  
**Units: 4**

**Prerequisite:** MATH 160 or appropriate placement

**Advisory:** ENGL 101, READ 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: MATH 170, MATH 190 or MATH 190H

This is a one-semester course in the fundamentals of algebra-based calculus and its applications to the fields of business, economics, social sciences, biology, and technology. Course topics include graphing of functions; applications of derivatives and integrals of functions including polynomials; rational, exponential, and logarithmic functions; multivariable derivatives; and differential equations.  
Hours: 72 Lecture.

**MATH 175**



**Plane Trigonometry (C-ID: MATH 851)****Units:** 3**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of a geometry and an intermediate algebra course.****Transfers to:** CSU

This course is for students majoring in mathematics, science, and engineering. The course equips students with the skills necessary for success in precalculus, presenting the concepts of plane trigonometry using a functions approach. The course also includes a study of trigonometric functions including their inverses and graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the law of cosines and the law of sines, polar coordinates, and an introduction to vectors.

Hours: 72 Lecture.

**MATH 180****Pre-Calculus (C-ID: MATH 155)****Units:** 4**It is advised that students be able to engage in written composition at a college level.****Prerequisite:** MATH 175 or appropriate placement**Advisory:** READ 101**Transfers to:** UC/CSU - UC credit limit. Students will receive a maximum of 5 units credit for MATH 160 and MATH 180 combined.

This course is designed to prepare students for the study of calculus. The course presents a comprehensive study of linear, quadratic, polynomial, exponential, logarithmic, rational, and trigonometric functions. Inequalities, introductory analytic geometry, polar coordinates, polar equations and their graphs, and an introduction to sequences are also included. This course is a prerequisite for MATH 190. Hours: 72 Lecture.

**MATH 190****Calculus I (C-ID: MATH 210, MATH 900S)****Units:** 4**Prerequisite:** MATH 180**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: MATH 170, MATH 190 or MATH 190H.

MATH 190 is a semester course designed primarily for those students planning to pursue programs in engineering, mathematics, computer science, and physical sciences. This is the first course in differential and integral calculus of a single variable. It includes topics in functions, limits, and continuity, techniques and applications of differentiation and integration and the Fundamental Theorem of Calculus. Hours: 90 Lecture.

**MATH 190H****Calculus I Honors (C-ID: MATH 900S)****Units:** 4**Prerequisite:** MATH 180, ENGL 101**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for only one of the following courses: MATH 170, MATH 190 or MATH 190H

MATH 190H is a semester course designed primarily for those students planning to pursue programs in engineering, mathematics, computer science, and physical sciences. This course includes topics of differential and integral calculus of a single variable. This course is intended for students who meet Honors Program requirements.

Hours: 90 Lecture.

**MATH 191****Calculus II (C-ID: MATH 220, MATH 900S)****Units:** 4**Prerequisite:** MATH 190 or MATH 190H or appropriate placement**Transfers to:** UC/CSU

This semester-long course continues the study of calculus begun in MATH 190. The course includes techniques of integration, improper integrals, anti-derivatives, applications of the definite integral, differential equations, Taylor polynomials, series, polar equations, and parametric equations. This course is the second course of the calculus sequence required of all engineering, physics, and mathematics majors. Hours: 90 Lecture.

**MATH 250****Calculus III (C-ID: MATH 230)****Units:** 4**Prerequisite:** MATH 191**Advisory:** ENGL 101**Transfers to:** UC/CSU

This course involves a study of functions of two or more variables using the principles of calculus, vector analysis, and parametric equations. Also included is a study of solid regions using partial differentiation, vector analysis, and multiple integration, as well as a study of vector calculus topics including line and surface integrals, Green's theorem, Stokes' theorem, and the divergence theorem. This is the third course of the calculus sequence required for engineering, physics, and mathematics majors. Hours: 90 Lecture.

**MATH 251****Linear Algebra and Differential Equations (C-ID: MATH 910S)****Units:** 5**Prerequisite:** MATH 191**Transfers to:** UC/CSU

This course is an introduction to ordinary differential equations and linear algebra, and is designed for STEM majors who do not need separate courses in linear algebra and differential equations. Topics in this course include first order ordinary differential equations, including separable, linear, homogeneous of degree zero, Bernoulli, and exact equations with applications and

numerical methods; solutions to higher order differential equations using undetermined coefficients, variation of parameters, and power series, with applications; solutions to linear and non-linear systems of differential equations, including numerical solutions; matrix algebra, solutions of linear systems of equations, and determinants; vector spaces, including the Gram-Schmidt procedure; and linear transformations, kernel and range, eigenvalues, eigenvectors, diagonalization, and symmetric matrices.

Hours: 90 Lecture.

**MATH 260****Linear Algebra (C-ID: MATH 250)****Units:** 4**Prerequisite:** MATH 191**Transfers to:** UC/CSU

This course is an introductory study of linear algebra with applications to problems in the physical and social sciences. It includes the solution of systems of linear equations, matrix algebra with inverses, determinants, vectors and vector spaces, linear transformations, Eigenvalues and Eigenvectors, orthogonality and diagonalization. This course is required for engineering, physics, computer science and mathematics majors. Hours: 72 Lecture.

**MATH 270****Differential Equations (C-ID: MATH 240)****Units:** 4**Prerequisite:** MATH 250**Transfers to:** UC/CSU

This course covers ordinary differential equations with applications in the physical and social sciences. It includes a study of linear and nonlinear first-order differential equations, linear higher order differential equations, systems of differential equations, the power series solution of differential equations, and Laplace transforms. The course is a continuation of MATH 190, MATH 191, and MATH 250, and is required for all Engineering, Physics, and Mathematics majors. Hours: 72 Lecture.

**MATH 299****Directed Study: Mathematics****Units:** 1-3**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing

depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## MANAGEMENT

### Division of Business

#### MGMT 101

**Introduction to Business (C-ID: BUS 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level, read college-level texts, and have knowledge of elementary algebra concepts.**

**Transfers to:** UC/CSU

This course is designed for the student who has an interest in a career in business. Topics cover business operations, strategies for both domestic and international markets, economic factors, legal regulations, management, leadership, marketing, financial operations, accounting controls, and e-commerce. This course will count toward a business certificate or degree in business and transfer to a four-year school.

Hours: 54 Lecture.

#### MGMT 105

**Elements of Supervision**

**Units:** 3

**Advisory:** MGMT 101

**Transfers to:** CSU

This course is designed for the student who is considering a career in management and is seeking an entry-level career position with a company in retailing, industry, or the government. This course examines the role of the first-line manager and/or supervisor within the organization and emphasizes the application of management functions in effective supervision. Topics include an overview of management principles in direct and straightforward terms, critical concepts and insights into real world practice and challenges.

Hours: 54 Lecture.

#### MGMT 108

**Business Writing**

**Units:** 3

**It is advised that students be able to engage in written composition at a**

**college level and read college-level texts.**

**Transfers to:** CSU

The course covers the principles of effective writing in business. Extensive experience is provided using the different forms of business writing—memorandums, letters, reports, and resumes. Cultural differences and their impact on communicating in business will be studied. This course is designed for students pursuing careers in business.

Hours: 54 Lecture.

#### MGMT 120

**Human Relations in Business**

**Units:** 3

**Advisory:** MGMT 101

**Transfers to:** CSU

This course is designed for the student who is seeking a career in management or is currently in a leadership role and wants a better understanding of human relation skills and techniques. Topics covered in the course include leadership, teamwork, communication, group problem-solving, diversity, motivation, and managerial organizations. These topics will apply to both a diverse and competitive environment.

Hours: 54 Lecture.

#### MGMT 125

**Managerial Computer Applications**

**Units:** 3

**Advisory:** MGMT 101

**Transfers to:** CSU

This course is an introduction to computer technology as it applies to the business management environment. The course prepares managers to leverage current technology, in both theory and application, to meet the needs of the global business environment. Managerial issues and ethical standards are explored, and web-based, hands-on modules prepare students to become proficient in Microsoft Word, Excel, and PowerPoint.

Hours: 54 Lecture.

#### MGMT 130

**Small Business Management--  
Entrepreneurship**

**Units:** 3

**Advisory:** MGMT 101

**Transfers to:** CSU

This course is designed for those students interested in small business, either in a domestic or international market. Topics include start-up methods and techniques, management and operations, marketing, financing and cash management, location strategies, personnel practices, buying and selling strategies, and e-commerce. This course will also provide students with an opportunity to develop a business plan as it pertains to their small business interest.

Hours: 54 Lecture.

#### MGMT 140

**Introduction to International  
Business**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students with a global perspective of business and acquaint students with the relationship of culture, politics, laws, and economics to operation in today's complex global business environment. The subjects covered include international trade and finance, confidentiality and privacy, international marketing, and international human resources management. This course is designed for students looking for entry-level positions in the field of international business.

Hours: 54 Lecture.

#### MGMT 141

**International Marketing**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students with an in-depth study of international marketing. International market opportunities and the determination of marketing objectives are also explored. Students evaluate the marketing research data and analyze selected approaches that affect the marketing mix for specific markets to coordinate strategies in global world markets. This course is designed for the marketing-oriented students and those interested in furthering their knowledge and understanding of international business.

Hours: 54 Lecture.

#### MGMT 142

**International Management**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students with a comprehensive overview of the management practice as it relates to international business. Emphasis is placed on planning, problem-solving, organizational structure, human resource management, and production management as related to international competition. These functions of management are evaluated and examined under international competitive situations and cross-cultural boundaries. This course is designed for international business majors and those students interested in furthering their knowledge of business culture, strategy and behavior issues in a global context.

Hours: 54 Lecture.

#### MGMT 143

### **Import and Export Business**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to provide students who want to start or expand their own import and export business or professionals who seek to enter their career advancement and to do business overseas successfully. The course covers major practical applications, from understanding the objectives of parties involved in importing and exporting to the basics of letters of credit, packaging, transporting and shipments, role of banks and freight forwarders, foreign currency management, and documents used in international trade. Hours: 54 Lecture.

### **MGMT 146**

#### **Human Resources Management**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for the student who wants to study employer-employee relationships with particular emphasis on the challenges facing an expanding multicultural workforce in Southern California. Topics include: legal framework; personnel policies and procedures; implementing equal employment and affirmative action; legal aspects of supervision; training and development; interviewing; testing; wage and salary administration, job analysis and description; recruitment; transfers; promotions; and principles of collective bargaining. Hours: 54 Lecture.

### **MGMT 147**

#### **Global Business and Culture**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course introduces the concept of global citizenship and the interconnectivity of business and culture, and is designed to train students to improve intercultural interactions by learning to become more aware of their multicultural business environment domestically and internationally. In the course, students explore different cultures and their effects on international business, learn to operate effectively in a diverse context, and solve business problems by effectively learning to engage interculturally. Hours: 54 Lecture.

### **MGMT 150**

#### **Principles of Management**

**Units:** 3

**Advisory:** MGMT 101

### **Transfers to:** CSU

This course is designed for students seeking a career in management or for students who need to expand their knowledge of management techniques and organizational methods. In this course, students learn the theory and application of managerial functions as it applies to planning, organizing, leading, and controlling organizations. Additional topics include the history of management, and practical management techniques, practices, and problem-solving methodologies. The topics of employee empowerment, characteristics and qualities of successful managers, and contemporary trends in management also are explored in the course. Hours: 54 Lecture.

### **MGMT 208**

#### **Business Communications (C-ID: BUS 115)**

**Units:** 3

**Prerequisite:** ENGL 101

**Transfers to:** CSU

This course covers the principles of effective writing in business. The course provides extensive experience using the different forms of business writing: memorandums, letters, reports, and resumes. Cultural differences and their impact on communicating in business are studied. This course satisfies the business communications component for the Associate in Science in Business Administration for Transfer degree. Hours: 54 Lecture.

### **MGMT 290**

#### **Cooperative Work Experience/ Internship for Business Management Related Fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business and industrial establishments under supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of Business Management and have completed or enrolled in the appropriate coursework. "Contact the CWE office regarding re-enrollment procedures".

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours. Hours: 60-300 Lab.

### **MGMT 299**

#### **Directed Study: Management**

**Units:** 1-3

**Transfers to:** CSU

Independent study/directed study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent studies/directed studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet with their faculty sponsor on a regular basis and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for independent studies/directed studies are the same as those for other courses. Units are awarded in accordance with Title 5 regulations with 1 unit of credit awarded for 54 hours of directed studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide. Hours: 54-162 Lab.

## **MARKETING**

### **Division of Business**

#### **MRKT 170**

##### **Principles of Marketing**

**Units:** 3

**Advisory:** MGMT 101

**Transfers to:** CSU

This course is designed for the student who is interested in a career in marketing or gaining an entry-level marketing position with a retail, industrial, service, or consumer product company. Discussion of marketing concepts, strategies, and techniques will take place in an environment that reflects new technologies and international competitiveness. The topics in the course will include marketing concepts, functions, operations, and organizations of retail and wholesale enterprises; distribution channels; market research; advertising; marketing costs; pricing; cooperative marketing, marketing legislation and regulations and trends. Hours: 54 Lecture.

#### **MRKT 171**

##### **Consumer Behavior**

**Units:** 3

**Advisory:** MGMT 101

**Transfers to:** CSU

This class investigates and analyzes the reasons consumers select, purchase, use, and dispose of goods and services to satisfy their personal and household needs. Topics include consumer culture, group influence, consumption patterns, and consumer attitudes and lifestyles. This class is appropriate for marketing majors and anyone who wants to know why people buy.  
Hours: 54 Lecture.

**MRKT 172****Advertising and Promotion****Units:** 3**Advisory:** MGMT 101**Transfers to:** CSU

This course introduces students to the creative and competitive field of advertising and promotion. Topics include understanding the target audience, developing marketing and advertising plans, engaging in the creative process through strategy and execution, and integrating marketing communications elements as they relate to personal selling, sales promotion, direct marketing, and electronic, digital, and print media. This course is appropriate for marketing majors or anyone interested in advertising and promotion.  
Hours: 54 Lecture.

**MRKT 173****Principles of Selling****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for the student interested in a sales position or those currently in the sales field needing further training or hoping to transition to a management or marketing manager position. The course will focus on relationship selling and developing productive selling environments. In addition, prospecting techniques, approach strategies, presentation and demonstration skills, overcoming selling objections, and closing techniques will provide the core of the material covered in this course.  
Hours: 54 Lecture.

**MRKT 174****Small Business Marketing and Advertising****Units:** 3**Advisory:** MGMT 101**Transfers to:** CSU

This class provides useful and effective marketing and advertising tools and techniques to students who have or would like to own a small business. A special emphasis is placed on the fundamentals of marketing and guerilla marketing and advertising techniques. Topics will include marketing plan strategies, marketing research, marketing channel management, retail and pricing strategies, and cost-

effective guerilla advertising techniques for small businesses.

Hours: 54 Lecture.

**MRKT 175****Retail Management****Units:** 3**Advisory:** MGMT 101**Transfers to:** CSU

This course is designed for the student pursuing a career in retail management or desiring to own their own retail business. Class discussions will explore the topics of customer buying behavior, retail market strategy, retail site location, and human resources management. Case studies and experiential exercises will be used to help students understand additional topics including customer service, store management, retail pricing, supply chain management, and merchandise management.  
Hours: 54 Lecture.

## MASS COMMUNICATIONS

### Division of Communications and Languages

**MSCM 103****Survey of Motion Picture, Radio, and Television****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: MSCM 103 or MSCM 128

This course provides an overview of the history, theory, and aesthetic principles of radio, television, and motion pictures, and examines their social impacts and effects on society. The changing nature of consumer information is explored, along with the evolution of these three mediums in the traditional and non-traditional aspects of listening, writing, and viewing. The social, political, regulatory, ethical, and occupational impacts of the electronic media are also studied.  
Hours: 54 Lecture.

**MSCM 128****Mass Media in Modern Society (C-ID: JOUR 100)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: MSCM 103 or MSCM 128

This course in mass media surveys the history, format, laws, and significant contributors in American mass

communications. Through projects and readings, students research and discuss such issues as free press, fair trial, foreign communications systems, and the relationship between free media and a democratic society.  
Hours: 54 Lecture.

**MSCM 134****Documentary Film****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course serves as an introduction to documentary film. It provides an overview of key historical and critical concepts regarding film, including vocabulary for storyboard and scene analysis. Students analyze films in relation to mise-en-scene, editing, sound, narrative, cinematography, screenplay, and meaning.  
Hours: 54 Lecture.

## MUSIC

### Division of Arts and Cultural Programs

**MUS 101****Fundamentals of Music (C-ID: MUS 110)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students interested in the fundamentals of music theory. The class takes up basic notation, rhythm reading, major and minor scale construction, simple musical analysis, and basic chord construction.  
Hours: 54 Lecture.

**MUS 103****Music Theory I (C-ID: MUS 120)****Units:** 3

**It is advised that students be able to read college-level texts.**

**Corequisite:** MUS 106**Transfers to:** UC/CSU

Through guided composition and analysis, this course incorporates the following concepts: rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; diatonic chords, basic cadential formulas and phrase structure; dominant seventh; figured bass symbols; and non-harmonic tones. Development of skills in handwritten notation is expected.  
Hours: 54 Lecture.

**MUS 104****Music Theory II (C-ID: MUS 130)****Units:** 3**Prerequisite:** MUS 103**Corequisite:** MUS 107**Transfers to:** UC/CSU



This course incorporates the concepts from Music Theory I. In addition, through guided composition and analysis, the course includes an introduction to two-part counterpoint; voice leading involving four-part chorale writing; diatonic harmony; and an introduction to secondary/applied chords and modulation.  
Hours: 54 Lecture.

### **MUS 105**

#### **Music Theory III (C-ID: MUS 140)**

**Units:** 3

**Prerequisite:** MUS 104

**Corequisite:** MUS 156

**Transfers to:** UC/CSU

This course incorporates the concepts learned in MUS 104 (Music Theory II). In addition, through writing and analysis, the course introduces students to chromatic harmony, secondary/applied chords, modulation, borrowed chords, and Neapolitan and augmented-sixth chords.

Hours: 54 Lecture.

### **MUS 106**

#### **Musicianship I (C-ID: MUS 125)**

**Units:** 1

**It is advised that students be able to read college-level texts.**

**Corequisite:** MUS 103

**Transfers to:** UC/CSU

This course is designed for the student who wants to develop beginning aural skills, sight-reading, sight-singing, as well as dictation and rhythmic interpretation skills. It is recommended for all instrumentalists, singers, and composers and required of all music majors.

Hours: 54 Lab.

### **MUS 107**

#### **Musicianship II (C-ID: MUS 135)**

**Units:** 1

**It is advised that students be able to read college-level texts.**

**Prerequisite:** MUS 106

**Corequisite:** MUS 104

**Transfers to:** UC/CSU

This course is designed for the student who wants to develop the rhythmic, melodic, and harmonic materials of Music Theory II through ear training, sight singing, analysis, and dictation. This course is required of all music majors.

Hours: 54 Lab.

### **MUS 110**

#### **College Community Orchestra**

**Units:** 1

**Advisory:** MUS 101

**Transfers to:** UC/CSU

This course is designed for the instrumental music student who wants to become familiar with the vast body of orchestral music. It provides players an opportunity to develop their own musical capabilities and participate in ensemble playing. Students are expected to provide their own instruments. This course may be taken once and repeated three times for credit.

Hours: 54 Lab.

### **MUS 116**

#### **Diverse Instruments Ensemble (C-ID: MUS 185)**

**Units:** 1

**Enrollment requires successful audition with instructor approval prior to enrollment to demonstrate proficiency of entry skills.**

**Advisory:** MUS 101

**Transfers to:** UC/CSU

This course is designed for electric and acoustic instrumental, and vocal students, at a beginning and intermediate level, to perform together in one ensemble. The ensemble content will be arranged for the instrumental and vocal makeup of the class and will include a diversity of styles that might include Latin, Asian, popular and contemporary classical music.

Hours: 54 Lab.

### **MUS 119**

#### **Advanced College Community Orchestra**

**Units:** 1

**Prerequisite:** MUS 110

**Transfers to:** UC/CSU

This course is designed for the more advanced instrumental music student who wants to become more familiar with the vast body of orchestral music. It provides advanced players an opportunity to further develop their own musical capabilities further and to participate in ensemble playing. Students are expected to provide their own instruments. This course may be taken once and repeated three times for credit.

Hours: 54 Lab.

### **MUS 120**

#### **Concert Choir**

**Units:** 1

**Enrollment requires successful audition with instructor approval prior to enrollment to demonstrate proficiency of entry skills. It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for the student who seeks the needed skills to study, rehearse, and perform literature within a large vocal ensemble. Participation in public performance is required. The repertoire will include a diversity of selections including classical choral literature, world music, popular and contemporary music. Previous choral experience is not required. This course may be taken for credit up to four times for a total of 4 units.

Hours: 54 Lab.

### **MUS 129**

#### **Music in Latin American Culture**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey course designed for the student seeking an introduction to music in Latin American culture. The

course will focus on the diverse musical cultures of South America, Central America, Mexico, Puerto Rico, and the Caribbean. Emphasis will be placed on rhythmic styles and structures, as well as, specific social, cultural, and historical backgrounds.

Hours: 54 Lecture.

### **MUS 130**

#### **Music History and Literature Before 1750**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students who seek an introduction to the major composers and musical movements from antiquity to the 1700s. The course focuses on learning, reasoning, and writing about the music of these periods with the goal of understanding their social, political, and cultural contexts. In addition, these periods will be compared to contemporary culture and its social, political, and cultural framework.

Hours: 54 Lecture.

### **MUS 131**

#### **Music History and Literature after 1750**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students who seek an introduction to the major composers and musical movements from 1750 to the present. The course focuses on learning, reasoning, and writing about the music of these periods with the goal of understanding their social, political, and cultural contexts. In addition, these periods will be compared to contemporary culture and its social, political, and cultural framework.

Hours: 54 Lecture.

### **MUS 132**

#### **History of Rock and Roll**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey course designed for the student who seeks an introduction to rock and roll. The course will focus on rock and roll music, its origins, and its many sub-styles. The social, political, and economic influence the music has had on society and other types of music will also be examined.

Hours: 54 Lecture.

### **MUS 133**

#### **Music Appreciation**

**Units:** 3

**It is advised that students be able to engage in written composition at a**

**college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of musical practices from various periods of music history, with an emphasis on social, political, and commercial contexts. Classical, jazz, rock, blues, and world music are the types of music covered. This course is intended for students seeking to fulfill the general education arts requirement.  
Hours: 54 Lecture.

**MUS 135**

**Music in Film**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey of the art and craft of film music as practiced by prominent film composers and sound designers. Emphasis will be placed on history and function from 1930 to the present, as well as cultural context. The class is designed for students interested in learning how music influences film.  
Hours: 54 Lecture.

**MUS 136**

**History of Jazz**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is a survey course designed for the student who seeks an introduction to Jazz. The course will focus on jazz music, its origins and its many sub-styles. The social, political and economic influence the music has had on society and other types of music will also be examined.  
Hours: 54 Lecture.

**MUS 138**

**Masterworks Chorale**

**Units:** 2

**Enrollment requires an audition. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This advanced-level course is for students who seek to broaden their choral repertoire by performing major choral works from various musical periods accompanied by orchestra or other instrumental ensemble. Attention is given to the refinement and polishing of choral vocal technique. Public performance is required. Enrollment criteria requires an audition.  
Hours: 27 Lecture. 27 Lab.

**MUS 140**

**Beginning Class Voice I**

**Units:** 1.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for non-music majors interested in learning the foundations of singing, including proper posture, breath support, healthy vocal fold vibration, optimal resonance, articulation, diction, and stage presence. Students are given appropriate repertoire from the standard vocal literature throughout the semester. No previous musical experience is necessary.  
Hours: 18 Lecture. 27 Lab.

**MUS 142**

**Beginning Class Voice II**

**Units:** 1.5

**Prerequisite:** MUS 140

**Transfers to:** UC/CSU

This course is for non-music majors interested in developing the voice and technique acquired in MUS 140 (Beginning Voice I) through more advanced vocal exercises and repertoire. A comprehensive study of style and interpretation is a main feature of the course.  
Hours: 18 Lecture. 27 Lab.

**MUS 145**

**Piano I**

**Units:** 1

**It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is part of the music core, and intended for music majors. Course material includes basic technique and notation, major and minor five finger patterns, major scales, sight reading, and basic chord progressions as they are encountered in beginning piano music.  
Hours: 18 Lecture.

**MUS 146**

**Piano II**

**Units:** 1

**Prerequisite:** MUS 145

**Transfers to:** UC/CSU

This course is part of the music core, and is intended for music majors. Course material includes piano technique, major scales and arpeggios, sight reading, chord progressions, harmonization, and transposition skills as encountered in upper-beginning/early intermediate piano music.  
Hours: 18 Lecture.

**MUS 147**

**Piano III**

**Units:** 1

**Prerequisite:** MUS 146

**Transfers to:** UC/CSU

This course is part of the music core, and is intended for music majors. Course material includes piano technique, all major and minor scales and arpeggios, sight reading, expanded chord progressions, harmonization, and transposition skills as encountered in intermediate piano music.  
Hours: 18 Lecture.

**MUS 148**

**Piano IV**

**Units:** 1

**Prerequisite:** MUS 147

**Transfers to:** UC/CSU

This course is part of the music core, and is intended for music majors. Course material builds upon skills acquired from Piano III (MUS 147). Attention is given to intermediate-level technical and interpretive skills including piano technique; sight reading; soprano, alto, tenor, bass (SATB) score reading; and basic song accompaniment.  
Hours: 18 Lecture.

**MUS 150**

**Beginning Class Guitar I**

**Units:** 1.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for non-music majors interested in beginning guitar skills and in the understanding of music through the study of simple guitar pieces. The development of skills at the beginning level may be used in playing various styles, including classical, pop, jazz, rock, and blues. No previous musical experience is necessary.  
Hours: 18 Lecture. 27 Lab.

**MUS 151**

**Beginning Class Guitar II**

**Units:** 1.5

**Prerequisite:** MUS 150

**Transfers to:** UC/CSU

This course is for non-music majors interested in broadening their understanding of guitar literature by performing beginning-level works. Attention is given to the refinement and polishing of technique through scales, arpeggios, sight-reading, interpretation, and tone production.  
Hours: 18 Lecture. 27 Lab.

**MUS 152**

**Intermediate Class Guitar I**

**Units:** 1.5

**Prerequisite:** MUS 151

**Transfers to:** UC/CSU

This course is for non-music majors interested in broadening their understanding of guitar literature by performing intermediate-level works. Attention is given to the refinement and polishing of technique through scales, arpeggios, sight-reading, interpretation, and tonal production; as well as analysis of various musical periods and styles.  
Hours: 18 Lecture. 27 Lab.

**MUS 153**

**Intermediate Class Guitar II**

**Units:** 1.5

**Prerequisite:** MUS 152

**Transfers to:** UC/CSU

This course is for non-music majors interested in improving their technique and skills by performing more difficult guitar works. Assigned scales, chord progressions, pieces, and etudes are selected to advance a student's technique and repertoire from various periods and styles.



Hours: 18 Lecture. 27 Lab.

**MUS 156**  
**Musicianship III**

**Units:** 1

**Prerequisite:** MUS 107

**Corequisite:** MUS 105

**Transfers to:** UC/CSU

This course is designed for the student who wants to develop the rhythmic, melodic, and harmonic materials of Music Theory III through ear training, sight singing analysis and dictation.

This course is required of all music majors.

Hours: 54 Lab.

**MUS 157**  
**Musicianship IV**

**Units:** 1

**Prerequisite:** MUS 156

**Corequisite:** MUS 206

**Transfers to:** UC/CSU

This course is designed for the student who wants to develop the rhythmic, melodic, and harmonic materials of Music Theory IV through ear training, sight singing, analysis, and dictation.

This course is required of all music majors.

Hours: 54 Lab.

**MUS 158**  
**Masterworks Chorale II**

**Units:** 2

**Enrollment requires an audition**

**Prerequisite:** MUS 138

**Transfers to:** UC/CSU

This advanced-level course is designed for students who seek in-depth study of choral literature by performing complex choral works such as Beethoven's *Mass in C*, Orff's *Carmina Burana*, and Britten's *War Requiem* accompanied by orchestra or other instrumental ensemble, or sung a cappella. Attention is given to every detail of musical development through rehearsal and performance of choral music from various musical periods and styles. Public performance is required.

Enrollment criteria requires successful completion of MUS 138 (Masterworks Chorale) and an audition.

Hours: 27 Lecture. 27 Lab.

**MUS 160**  
**Beginning Class Piano I**

**Units:** 1.5

**It is advised that students be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is for non-music majors interested in beginning piano skills and understanding music through the study of simple piano pieces. The development of skills at the beginning level may be used in playing various styles, including classical, pop, jazz, and rock. Individual pieces are performed in class. Previous experience is unnecessary.

Hours: 18 Lecture. 27 Lab.

**MUS 161**  
**Beginning Class Piano II**

**Units:** 1.5

**Prerequisite:** MUS 160

**Transfers to:** UC/CSU

This course is for non-music majors interested in beginning piano skills and understanding music through the study of simple piano pieces. The development of skills at the beginning level may be used in playing various styles, including classical, pop, jazz, and rock. Individual pieces are performed in class. This course builds on the material students learn in Beginning Class Piano I (MUS 160).

Hours: 18 Lecture. 27 Lab.

**MUS 162**  
**Intermediate Class Piano I**

**Units:** 1.5

**Prerequisite:** MUS 161

**Transfers to:** UC/CSU

This course is for non-music majors seeking to broaden their knowledge and understanding of piano literature. Various works of intermediate difficulty are introduced, and attention paid to the refinement and polishing of technique, interpretation, and tone production.

Hours: 18 Lecture. 27 Lab.

**MUS 163**  
**Intermediate Class Piano II**

**Units:** 1.5

**Prerequisite:** MUS 162

**Transfers to:** UC/CSU

This class is for non-music majors who seek to broaden their knowledge and understanding of piano literature. More advanced solo literature of intermediate difficulty is introduced, and emphasis placed on the continued technical and interpretive demands required to perform a varied repertoire.

Hours: 18 Lecture. 27 Lab.

**MUS 178**  
**Masterworks Chorale III**

**Units:** 2

**Enrollment requires an audition**

**Prerequisite:** MUS 158

**Transfers to:** UC/CSU

This advanced-level course is designed for students who seek in-depth study of choral literature by performing complex choral works like Bach's sacred and secular cantatas, masses by Mozart and Haydn, renaissance madrigals and sacred pieces, and contemporary choral works accompanied by orchestra or other instrumental ensemble, or sung a cappella. Attention is given to every detail of musical development through rehearsal and performance of choral music. Public performance is required. Students are expected to take on leadership roles as section leaders, mentors to new singers, and committee work for the choral organization. Enrollment criteria requires successful completion of MUS 158 (Masterworks Chorale) and an audition.

Hours: 27 Lecture. 27 Lab.

**MUS 181**  
**Applied Music (C-ID: MUS 160)**

**Units:** 0.5

**Enrollment requires an audition. It is advised that students be able to engage in written composition at a**

**college level and read college-level texts.**

**Corequisite:** MUS 116 or MUS 120 or MUS 216 or MUS 234

**Transfers to:** UC/CSU

This course is for students interested in receiving individual instruction in voice, piano, guitar, band, or orchestral instruments with an assigned instructor. Emphasis is placed on study at the beginning level of technique and repertoire. Each week, the course includes one recital class and one individual lesson. Performance for a faculty jury is required at the end of the semester. This course may be taken for credit up to 4 times for a total of 2 units.

Hours: 9 Lecture.

**MUS 206**  
**Music Theory IV (C-ID: MUS 150)**

**Units:** 3

**Prerequisite:** MUS 105

**Corequisite:** MUS 157

**Transfers to:** UC/CSU

This course is designed for students who want an introduction to the materials and the major trends and movements of the 20th- and 21st centuries. Students gain techniques for motivic and harmonic analysis, improvisation, and listening strategies for addressing this repertoire, and will both compose and perform as a class following the models of masterworks of the last 100 years.

Hours: 54 Lecture.

**MUS 211**  
**Composition Workshop I**

**Units:** 3

**Prerequisite:** MUS 104

**Transfers to:** UC/CSU

This beginner-level course is for students who want to develop vocal and instrumental compositional skills through analysis and creative writing in a workshop setting. The course includes the basic elements and tools of musical composition, including rhythm, melody, harmony, and counterpoint; and musical structure and form. Students are assigned composition exercises, describe and discuss their work with the class, and work on a final composition project.

Hours: 54 Lecture.

**MUS 212**  
**Composition Workshop II**

**Units:** 3

**Prerequisite:** MUS 211

**Advisory:** MUS 105, MUS 206

**Transfers to:** UC/CSU

This intermediate-level course is for students who want to further develop vocal and instrumental compositional skills through analysis and creative writing in a workshop setting. The course includes elements and tools of musical composition, including late 19th- and 20th-century harmony, the study of musical forms, analysis, guided listening, and discussion of examples from the repertoire. Students are assigned composition exercises,

describe, describe and discuss their work with the class, and work on building a composition portfolio.  
Hours: 54 Lecture.

#### **MUS 216**

**Industrial Orchestra (C-ID: MUS 185)**  
**Units: 2**

**Enrollment requires successful audition with instructor approval required prior to enrollment to demonstrate proficiency of entry skills.**

**Transfers to:** UC/CSU

This course is designed for the advanced electric, acoustic instrumental, and vocal students to broaden their abilities to perform in an ensemble as well as record in the studio. The ensemble content will be arranged for the instrumental and vocal makeup of the class and will include a diversity of styles that include contemporary classical, popular, film and video game music, and electroacoustic music. Rio Hondo composition students may also arrange and compose for this performance group. This course may be taken for credit up to four times for a total of 8 units.

Hours: 27 Lecture. 27 Lab.

#### **MUS 234**

**Advanced Chamber Singers (C-ID: MUS 180)**

**Units: 2**

**Enrollment requires successful audition with instructor approval required prior to enrollment to demonstrate proficiency of entry skills; It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students with advanced skills in rehearsing and performing choral music. A wide variety of music selected from different musical periods and styles will be selected for study and performance. This course may be taken up to four (4) times for a total of eight (8) units.

Hours: 27 Lecture. 27 Lab.

#### **MUS 241**

**Advanced Voice I**

**Units: 1.5**

**Prerequisite:** MUS 142

**Transfers to:** UC/CSU

This course is for students interested in further developing the vocal technique, musical interpretation, and performance skills appropriate for advanced vocal performance. Attention is given to details including specific vowels, clarity of tone, and interpretation. Public performance is required.

Hours: 18 Lecture. 27 Lab.

#### **MUS 245**

**Advanced Piano**

**Units: 2**

**Prerequisite:** MUS 148

**Transfers to:** UC/CSU

This course is designed for the student interested in further developing the interpretive and technical demands inherent in advanced piano literature. Attention is given to a detailed study and analysis of various musical periods and styles.

Hours: 36 Lecture.

#### **MUS 251**

**Advanced Guitar I**

**Units: 2**

**Prerequisite:** MUS 151

**Transfers to:** UC/CSU

This advanced level course is designed for students who seek to broaden their understanding of guitar literature by performing difficult works. Attention is given to the refinement and polishing of technique through scales, arpeggios, sight-reading, interpretation, and tonal production, as well as analysis of various musical periods and styles.

Hours: 27 Lecture. 27 Lab.

#### **MUS 252**

**Advanced Guitar II**

**Units: 2**

**Prerequisite:** MUS 251

**Transfers to:** UC/CSU

This advanced level course is designed for students who wish to improve their technique and skills by performing more difficult works. It is essentially a continuation of MUS 251, Advanced Guitar I. The scales, chord progressions, pieces and etudes assigned will be selected to advance the student's technique, and repertoire from various periods and styles.

Hours: 27 Lecture. 27 Lab.

#### **MUS 290**

**CWE Internship for Music Related Fields**

**Units: 1-4**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business, industrial, non-profit, studio, community and professional music organizations under supervision of a college instructor, and is facilitated by the use of learning objectives. Students work in a skilled or professional level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of music or music technology and have completed or enrolled in the appropriate coursework. This course may be taken once and repeated for a maximum of 16 units. Contact the Cooperative Work Experience (CWE) Office regarding re-enrollment procedures.

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75

hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 60-300 Lab.

#### **MUS 299**

**Directed Study: Music**

**Units: 1-3**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## **MUSIC AND INTEGRATED TECHNOLOGY**

### **Division of Arts and Cultural Programs**

#### **MUST 100**

**Pro Tools Fundamentals I**

**Units: 3**

**It is advised that students be able to read college-level texts.**

**Transfers to:** CSU

This course introduces fundamental Pro Tools concepts and principles, covering everything students need to know to complete a basic Pro Tools project, from initial setup to final mixdown. Students also learn to build sessions that include multi-track recordings of live audio, MIDI sequences, and virtual instruments. Hands-on exercises and projects introduce essential techniques for creating sessions, recording and importing audio and MIDI, editing session media, navigating sessions and arranging media on tracks, and using

basic processing and mixing techniques to finalize a production.

Hours: 54 Lecture.

### **MUST 101**

#### **Introduction to Music Technology (C-ID: CMUS 100X)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Transfers to:** CSU

This course is designed for the student who wants to learn the terminology, equipment, techniques, and concepts of music technology. Focus will be on principles and practices of sound, digital audio, synthesis, Musical Instrument Digital Interface (MIDI), MIDI sequencing, notation software, and audio recording utilizing hardware and software platforms. Lab activities will place an emphasis on the operation and components of the typical MIDI and digital audio lab (hardware and software). Students will complete independent projects demonstrating hands-on knowledge.

Hours: 36 Lecture. 54 Lab.

### **MUST 105**

#### **Introduction to the Music Business (C-ID: CMUS 140X)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is intended for students interested in the music business. It presents an overview of the business and legal aspects of the music industry in order to help students understand the rapid and massive changes caused by the digital music revolution. The course focuses on career possibilities, the development of business-related knowledge and skills necessary for effectively maintaining a professional music career, the vocabulary and terminology of the music industry, and the distinction between music and business at the corporate level. Topics include record contracts, publishing, licensing, marketing, distribution, performances, and copyright. In addition, the duties and responsibilities of musicians, songwriters, lawyers, agents, promoters, publishers, executives, managers, and anyone trying to navigate the rapid transformation of the industry are examined.

Hours: 54 Lecture.

### **MUST 110**

#### **Pro Tools Fundamentals II**

**Units:** 3

**Prerequisite:** MUST 100

**Transfers to:** CSU

This course expands upon the basic principles taught in the Pro Tools Fundamentals I course and introduces the core concepts and techniques students need to competently operate a Pro Tools system running mid-sized sessions. Students learn to build

sessions designed for commercial purposes and improve the results of their recording, editing, and mixing efforts. Guided exercises provide experience in setting up sessions, importing media, working with digital video, spotting sound effects, using loop recording and MIDI Merge techniques, and working with virtual instruments. Additional topics include warping with Elastic Audio, applying Real-Time Properties, creating clip loops, applying signal processing, using automation, and using submixes and track groups to simplify a final mix. Together with the first course in the series, Pro Tools Fundamentals I, this course provides the training required to prepare for the Avid Certified User: Pro Tools certification exam.

Hours: 54 Lecture.

### **MUST 115**

#### **Songwriting and Arranging I (C-ID: CMUS 150X)**

**Units:** 3

**Prerequisite:** MUS 103, MUST 101

**Transfers to:** UC/CSU

This course is designed for students who want to learn the process of songwriting. Songs are analyzed using chord structure, form, rhythm, melody, harmony, and lyrics. Original compositions and performances are expected from all students.

Hours: 36 Lecture. 54 Lab.

### **MUST 116**

#### **Songwriting and Arranging II**

**Units:** 3

**Prerequisite:** MUS 104 or MUST 115

**Transfers to:** UC/CSU

This course is designed for students who want to further their knowledge of the process of songwriting and arranging. Complex songs and advanced song forms are analyzed using chord structure, form, rhythm, melody, harmony, and lyrics. Additional emphasis on the creation of lead sheets as well as the proper presentation of a score and parts for strings and horn sections is included. Original compositions, recordings, and performances are expected from all students.

Hours: 36 Lecture. 54 Lab.

### **MUST 121**

#### **Electronic Music I (C-ID: CMUS 110X)**

**Units:** 3

**Prerequisite:** MUST 101

**Transfers to:** CSU

This course is designed for students who want to gain an understanding of the processes and tools available to the modern electronic musician. While using the most up-to-date software, students will learn to record, arrange, mix, and produce music. Topics include synthesis, sampling, and musical instrument digital interface (MIDI) sequencing. Compositions are expected of students utilizing electronic music techniques.

Hours: 36 Lecture. 54 Lab.

### **MUST 122**

### **Electronic Music II**

**Units:** 3

**Prerequisite:** MUST 121

**Transfers to:** CSU

This course is designed for students who want to continue the study of concepts and techniques needed to compose electronic music. Sequencing, advanced forms of automation, and various types of analog and digital synthesis are studied in greater depth, and the topic creating music for film and video games is also introduced.

Hours: 36 Lecture. 54 Lab.

### **MUST 123**

#### **Electronic Music III**

**Units:** 3

**Prerequisite:** MUST 122

**Transfers to:** CSU

This course is designed for advanced electronic music students who want to continue the study of concepts and techniques needed to compose electronic music. It is recommended for students who intend to pursue music professionally. Assignments include ambient soundscapes, which explore advanced concepts of sound and noise, *musique concrete*, experimental dance music, and scoring music for animation and motion picture scenes.

Hours: 36 Lecture. 54 Lab.

### **MUST 125**

#### **Sound Design I: Music, Media, and Game Audio**

**Units:** 3

**Prerequisite:** MUST 121

**Advisory:** MUST 141

**Transfers to:** CSU

This course is for students interested in learning the basics of sound design. The course introduces the physics of sound and how to successfully manipulate, modulate, and record sound in the service of various music and media industries (e.g., the music, television/film, and video game industries). Assignments are project based.

Hours: 36 Lecture. 54 Lab.

### **MUST 126**

#### **Sound Design II**

**Units:** 3

**Prerequisite:** MUST 122, MUST 125, MUST 142

**Transfers to:** CSU

This course is for students interested in learning advanced techniques and theory of sound design. The course will introduce acoustics, the psychoacoustics of sound and how to successfully program complex systems in order to synthesize and sculpt, and sound in the service of various music and media industries (e.g., the music, television/film, and video game industries). Assignments will be project based.

Hours: 36 Lecture. 54 Lab.

### **MUST 130**

#### **Pro Tools for Game Audio**

**Units:** 3

**Prerequisite:** MUST 100

**Transfers to:** CSU

This course exposes students to the core skills, workflow, and concepts involved in creating and implementing game audio using Pro Tools systems. The course covers basic sound design techniques along with sample workflows. Session time is divided between demonstration and guided practice, with ample time to experiment with sample material. Together with the Pro Tools Fundamentals I course, this course provides the training required to prepare for the Avid Certified User: Pro Tools for Game Audio certification exam.

Hours: 54 Lecture.

#### **MUST 141**

##### **Recording Studio I (C-ID: CMUS 130X)**

**Units:** 3

**Advisory:** MUST 101

**Transfers to:** CSU

This course is designed for students who want to learn how to make high-quality recordings using a wide array of tools and techniques. Emphasis is placed on digital audio workstation (DAW) sound recording, editing, and mixing processes through hands-on experience. Students collaborate to produce recordings within several musical genres.

Hours: 36 Lecture. 54 Lab.

#### **MUST 142**

##### **Recording Studio II**

**Units:** 3

**Prerequisite:** MUST 141

**Transfers to:** CSU

This course is designed for students who want to continue the study of recording studio techniques, signal flow using an analog console, and advanced ensemble microphone techniques. Students also create a portfolio of work demonstrating their recording knowledge.

Hours: 36 Lecture. 54 Lab.

#### **MUST 145**

##### **Live Sound Reinforcement I (C-ID: CMUS 120X)**

**Units:** 3

**Advisory:** MUST 101

**Transfers to:** CSU

This course is designed for students who want an overview of live concert sound reinforcement. Topics include basic sound system theory and its application, as well as the operation of individual sound system components, including microphones, mixers, effects, power amplifiers, and speaker systems. This course offers opportunities for hands-on experience in troubleshooting, sound checking, and mixing sound for live performance applications.

Hours: 36 Lecture. 54 Lab.

#### **MUST 146**

##### **Live Sound Reinforcement II**

**Units:** 3

**Prerequisite:** MUST 145

**Transfers to:** CSU

This course is designed for students seeking to further their knowledge in live concert sound reinforcement. Topics include professional communication with musicians, and intermediate sound system theory and its application. It also covers individual sound system component operation, including microphones, mixers, effects, power amplifiers, and speaker systems. This course offers opportunities for hands-on experiences in troubleshooting, sound checking, and mixing sound for live performance applications.

Hours: 36 Lecture. 54 Lab.

#### **MUST 151**

##### **History of Electronic Music**

**Units:** 3

**Advisory:** ENGL 030 or ENLA 034 or appropriate placement, READ 043 or appropriate placement

**Transfers to:** UC/CSU

This course is a survey course designed for the student who seeks an introduction to Electronic Music. Beginning with the European and American avant-garde, this course will trace the roots and routes of electronic music through Jamaican Dub, Chicago House, Detroit Techno, Bronx Hip-hop, and UK Rave to name a few. Analysis of musical style and the relationship to particular technologies will accompany our examination of various genres in their social and cultural contexts.

Hours: 54 Lecture.

#### **MUST 152**

##### **History of Hip Hop**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students who seek to expand their knowledge of hip hop music through the exploration of its cultural, musical, and technological influences. The course includes a comprehensive survey of styles beginning with old-school hip hop, through its golden age, to its present-day status as the most popular genre of music in the United States. The course also covers sampling, licensing, and copyright law, which are all integral parts of the music business. Additionally, the course delves into technology-centered topics such as turntablist beat matching and scratching, digital samplers, digital workstations, Auto-Tune, and beyond.

Hours: 54 Lecture.

#### **MUST 191A**

##### **Music and Integrated Technology Capstone - Recording**

**Units:** 2

**Prerequisite:** MUST 141

**Advisory:** MUST 142

**Transfers to:** CSU

This course is for students in the Music and Integrated Technology program to learn hands-on skills. The course

focuses on collaborative projects, with students performing the professional roles of recording engineers and assistant engineers, and will prepare students for the highly collaborative music and media industries. Additionally, the course will help students build a professional portfolio with which to apply for entry-level jobs.

Hours: 108 Lab.

#### **MUST 191B**

##### **Music and Integrated Technology Capstone - Production**

**Units:** 2

**Prerequisite:** MUST 121, MUST 141

**Advisory:** MUST 142

**Transfers to:** CSU

This course is for students in the Music and Integrated Technology program to learn hands-on skills. The course focuses on collaborative projects, with students performing the professional role of music producer, and will prepare students for the highly collaborative music and media industries. Additionally, the course will help students build a professional portfolio with which to apply for entry-level jobs.

Hours: 108 Lab.

#### **MUST 201**

##### **Pro Tools Production I**

**Units:** 3

**Prerequisite:** MUST 110

**Transfers to:** CSU

This course covers the core concepts and skills needed to operate an Avid Pro Tools Ultimate system with HD-series hardware in a professional studio environment. This course builds on the Pro Tools Fundamentals I and II series of courses, providing intermediate- and advanced-level Pro Tools concepts and techniques. Students learn to customize the configuration of Pro Tools | HD Native systems to maximize results and improve recording, editing, and mixing workflows. Guided exercises provide experience in optimizing system resources, configuring I/O, navigating and color-coding sessions, managing session media, using advanced selection and auditioning techniques, working with clip gain, applying advanced automation techniques, creating submixes and applying parallel processing, advanced mixing, and finishing techniques for a final mixdown. This course provides the foundational training for the Avid Certified Operator: Pro Tools | Music, and Avid Certified Operator: Pro Tools | Post certification exams.

Hours: 54 Lecture.

## **NUTRITION SCIENCE**

### **Division of Health Science and Nursing**

#### **NUTR 110**

##### **Introduction to Nutrition Science (C-ID: NUTR 110)**

**Units:** 3



**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed to provide students with basic knowledge of scientific concepts related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs, dietary guidelines, macronutrients, micronutrients, digestion, absorption, metabolism, health, and disease prevention through a balanced diet. This course is appropriate for nutrition majors and health science majors, including nursing.  
Hours: 54 Lecture.

#### **NUTR 120**

**Principles of Foods with Lab (C-ID: NUTR 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students majoring in nutrition to learn the application of food science principles with emphasis on ingredient function and interaction, food preparation, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food.  
Hours: 45 Lecture. 27 Lab.

## **OPERATING ENGINEERS**

### **Division of Career and Technical Education**

#### **OENG 041**

**Introduction to Apprenticeship (formerly OENG 001)**

**Units:** 2.5

**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program.**

This course provides related and supplemental instruction for state-indentured apprentices employed full-time in the operating engineers trade. Students identify basic safety rules and procedures when operating and working around heavy construction equipment, and learn about proper safe attitudes and work ethics, personal financial planning responsibilities, the history of organized labor and its structure, and the importance of wages and benefits of being a member of a local union.  
Hours: 36 Lecture. 36 Lab.

#### **OENG 042**

**Grade Checking (formerly OENG 002)**

**Units:** 2.5

**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have**

**knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides related and supplemental instruction for state-indentured apprentices employed full-time in the operating engineers field. The course reviews information found on typical grading and survey stakes, the use of colored ribbon on grade stakes, transferring elevations from one point to another, setting grading stakes for both cut and fill slopes, grading stakes for curb and streets, staking procedures for subdivisions, basic laser set-up, and basic GPS equipment setup.  
Hours: 36 Lecture. 36 Lab.

#### **OENG 043**

**Equipment Operator (formerly OENG 003)**

**Units:** 2.5

**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides related and supplemental instruction for state-indentured apprentices employed full-time in the operating engineers field. The course covers preventive maintenance and operation of heavy construction equipment, best practices and personal safety, terminology, maintenance, and operation of the following pieces of equipment: scrapers, dozers, loaders, forklifts, compactors, rollers, and construction cranes.  
Hours: 36 Lecture. 36 Lab.

#### **OENG 044**

**Plan Reading (formerly OENG 004)**

**Units:** 2.5

**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides related and supplemental instruction for state-indentured apprentices employed full-time in the operating engineers field. The course introduces the tasks of interpreting and reading plan sets consisting of grading, infrastructure, and structural plans for roadways, subdivisions, and service utilities.  
Hours: 36 Lecture. 36 Lab.

#### **OENG 045**

**Skills Specialization (formerly OENG 005)**

**Units:** 2.5

**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides related and supplemental instruction to operating engineer apprentices. The course covers the topics of preventive maintenance and operation of heavy construction equipment, best practices and personal safety, terminology, maintenance, and operation of the following pieces of equipment: backhoes, excavators, motor graders, finish dozers, slope boards, hydraulic and conventional cranes.  
Hours: 36 Lecture. 36 Lab.

#### **OENG 052**

**Welding (formerly OENG 012)**

**Units:** 2.5

**Prerequisite:** State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.

This course is designed to meet the needs of state indentured apprentices employed full-time in the operating engineer field. Topics include the safe use of oxyacetylene cutting equipment, the technique of brazing, and electric arc welding.  
Hours: 36 Lecture. 36 Lab.

#### **OENG 053**

**Introduction to Hydraulics (formerly OENG 013)**

**Units:** 2.5

**Prerequisite:** State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.

This course is designed to meet the needs of state indentured apprentices employed full-time in the operating engineers field. Course topics include the principles of hydraulics, how a hydraulic system works, and the practical uses of hydraulics.  
Hours: 36 Lecture. 36 Lab.

#### **OENG 054**

**Advanced Hydraulics/Pneumatics (formerly OENG 014)**

**Units:** 2.5

**Prerequisite:** State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.

This course is designed to meet the needs of state indentured apprentices employed full-time in the operating engineer field. Course topics include the diagnosis, service, and repair of hydraulic valves, motors, pumps, and cylinders; diagnosis and repair of variable speed hydraulic drives; and service and maintenance of pneumatic systems used on heavy equipment and heavy trucks.  
Hours: 36 Lecture. 36 Lab.

**OENG 055****Engines - Gasoline and Diesel (formerly OENG 015)****Units:** 2.5**State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides related and supplemental instruction in basic safety practices and proper maintenance procedures required of operating engineer apprentices when working with gasoline and/or diesel engines. Specific topics include internal combustion engine theory for both diesel and gasoline engines, use of appropriate hand tools needed for engine repair, proper procedures for engine disassembly and assembly, and troubleshooting and diagnosing engine failures.

Hours: 36 Lecture. 36 Lab.

**OENG 056****Component Disassembly and Assembly (formerly OENG 016)****Units:** 2.5**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course is designed to meet the needs of state-indentured apprentices employed full-time in the operating engineer field. Course topics include clutches, mechanical transmissions, differentials, final drives, crawler tractor undercarriage, and crawler tractor track assemblies.

Hours: 36 Lecture. 36 Lab.

**OENG 062****Structural Masonry Inspection (formerly OENG 022)****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course is designed to meet the needs of state-indentured apprentices with the State of California who are interested in the field of operating engineer inspection. Topics include industry safety, industry terminology, masonry inspection testing, structural masonry plan reading, field interpretation, and successful completion of the industry standard certification examination.

Hours: 54 Lecture. 54 Lab.

**OENG 063****Reinforced Concrete Inspection (formerly OENG 023)****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides related and supplemental instruction for operating engineer apprentices. The course covers codes and duties, reinforcing steel, blueprinting reading, structural gunite applications, report writing, and people skills. Apprentices gain the knowledge, research skills, and confidence needed to pass written and oral exams.

Hours: 54 Lecture. 54 Lab.

**OENG 064****Structural Steel/Welding (formerly OENG 024)****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course is designed to meet the needs of state-indentured apprentices with the State of California who are interested in the field of operating engineer inspection. Topics include industry safety, industry terminology, structural steel/welding inspection testing, analytical blueprint reading, field interpretation, and successful completion of the industry standard certification examination.

Hours: 54 Lecture. 54 Lab.

**OENG 065****Prestressed Concrete Inspector (formerly OENG 025)****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides the related and supplemental instruction for operating engineer apprentices. The course takes up reinforcing steel, codes, blueprints, stressing sheets, plan changes, report writing, people skills, job etiquette and protocol. Apprentices gain the knowledge, research skills, and confidence needed to pass their written and oral exams.

Hours: 54 Lecture. 54 Lab.

**OENG 066****Soil Testing and Inspection (formerly OENG 026)****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course is designed to meet the needs of state-indentured apprentices with the State of California who are interested in the field of operating engineer inspection. Topics include industry safety, industry terminology, inspection testing procedures, blueprint reading, field interpretation, and successful completion of a certification class sponsored by the American Concrete Institute and Nuclear Safety Course.

Hours: 54 Lecture. 54 Lab.

**OENG 067****Structural Steel/Bolting****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides the related and supplemental instruction for operating engineer apprentices. The course covers codes and duties, structural bolting inspection, report writing, and personal skills. Apprentices gain the knowledge, research skills, and confidence needed to pass their written and oral exams.

Hours: 54 Lecture. 54 Lab.

**OENG 068****Non-Destructive Testing (NDT)****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides the related and supplemental instruction for operating engineer apprentices. The course covers ultrasonic, magnetic particle, and liquid penetrant testing codes and duties, welding procedures, report writing, people skills, and testing equipment orientation. Students gain the knowledge, research skills, and confidence needed to pass their written and oral exams as applicable to non-destructive testing requirements.

Hours: 54 Lecture. 54 Lab.

**OENG 070****Fireproofing and Firestopping Inspection****Units:** 4**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students have knowledge of elementary algebra concepts and be able to comprehend pre-collegiate texts.**

This course provides the required related and supplemental instruction for operating engineer apprentices in fireproofing and firestopping inspection, testing codes and duties, application procedures, report writing, people skills, and testing equipment



orientation. Members will gain the knowledge, research skills, and confidence needed to pass their written and oral exams as applicable to the Fireproofing and Firestopping Testing requirements.

Hours: 54 Lecture. 54 Lab.

#### **OENG 290**

##### **Work Experience in Operating Engineers Union Apprenticeship** **Units: 1-4**

**Enrollment restricted to State Indentured Operating Engineers Trust Apprenticeship Program; It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course provides students the opportunity to work in the Operating Engineers apprenticeship program for the purpose of developing specific skills to meet the goals and objectives of the Operating Engineers Joint Apprenticeship Council (J.A.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all Work Experience course offerings. Only one Work Experience course may be taken per semester.  
**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.  
Hours: 3 Lecture. 75-300 Lab.

## **ORTHOPEDIC TECHNOLOGY**

### **Division of Health Science and Nursing**

#### **ORTH 040**

##### **Introduction to Orthopedic Technology** **Units: 4**

**Prerequisite:** BIOL 125

This course will provide students with an introduction to the roles, professional responsibilities, code of ethics, and employment qualifications of an Orthopedic Technician. Instruction will also include the review of the musculoskeletal system as it relates to the field of orthopedic technology emphasizing loco-motor, neuro-muscular and peripheral vascular structures.  
Hours: 72 Lecture.

#### **ORTH 050**

##### **Orthopedic Technician Health Assessment** **Units: 3**

**Prerequisite:** ORTH 040

This course will provide the student with entry level abilities to function as an Orthopedic Technician. Students will receive instruction in the physical examination of the extremities, spine and pelvis. Instruction will include joint range of motion, specific muscle group

testing and measuring the loco-motor system.

Hours: 45 Lecture. 27 Lab.

#### **ORTH 060**

##### **Orthopedic Technician Modalities** **Units: 4**

**Prerequisite:** ORTH 050

This course will provide the student with entry level abilities to function as an Orthopedic Technician in the private practice, hospital and managed care facilities. Students will receive instruction in back office skills focusing on casting, splinting, application of soft goods, wound care management, client communication and surgical assisting in major and minor orthopedic procedures. The student will learn operating room etiquette, gowning, gloving, sterile back table set up for categories 1, 2 and 3 orthopedic procedures. Instruction will include seminars, demonstrations and physical examinations, hands on casting and splinting applications, surgical gowning and gloving and assisting in major orthopedic procedures.  
Hours: 36 Lecture. 108 Lab.

#### **ORTH 070**

##### **Orthopedic Technician Practicum** **Units: 4**

**Prerequisite:** ORTH 060

This course will provide the student with entry level abilities to function as an Orthopedic Technician. Students will participate in clinical and hospital rotations consisting of instruction in back office skills to include casting, splinting, application of soft goods, wound care management, client communication and sterile technique. Operating room etiquette, gowning, gloving, sterile back table set up for category 3 major procedures.  
Hours: 18 Lecture. 162 Lab.

## **POLICE ACADEMY**

### **Division of Public Safety**

#### **PAC 020**

##### **Physical Fitness**

**Units:** 0.037-0.741

**Advisory:** PAC 040

This course is designed to keep peace officers informed of physical fitness techniques, current Federal and State laws and recent requirements which affect current law enforcement procedures. Physical Fitness for officer development presents new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.  
Hours: 2-40 Lab.

#### **PAC 021**

##### **Firearms**

**Units:** 0.037-0.741

**Advisory:** PAC 040

This course is designed to keep peace officers informed of new Firearms

Techniques and equipment, current Federal and State laws and recent requirements which affect current law enforcement procedures. Firearms for Officer Development present new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by California Commission on Peace Officer Standards and Training.  
Hours: 2-40 Lab.

#### **PAC 022**

##### **First Aid/CPR**

**Units:** 0.148-2.962

**Advisory:** PAC 040

This course is designed to keep peace officers informed of new first aid and CPR techniques, current Federal and State laws and recent requirements which affect current law enforcement procedures. First Aid/CPR for officer development presents new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.  
Hours: 2-40 Lecture. 2-40 Lab.

#### **PAC 023**

##### **Field Training Officer Course**

**Units:** 0.148-2.962

**Advisory:** PAC 040

This course is designed to teach a Police Officer how to train new recruits. This course includes training principles, civil liability, ethics and integrity, performance goals, principles of instruction, and role model.  
Hours: 2-40 Lecture. 2-40 Lab.

#### **PAC 024**

##### **Weapons, Semi-Automatic Handguns**

**Units:** 0.148-2.962

**Advisory:** PAC 040

This course is designed for personnel who are concerned with semiautomatic pistols as a police service side arm. Overall course will encompass Colt .45 semiautomatic, Smith and Wesson models M7P 9, M&P 9L, M&P 40L and M&P 45, Glock Models: 17, 21, 22, 34, and 35, Springfield Armory XD, or XDM, Beretta Models 92F and FS, Browning Hi-Power 9 millimeters, plus other uniform and off-duty semiautomatic pistols.  
Hours: 2-40 Lecture. 2-40 Lab.

#### **PAC 025**

##### **PC 832 Arrest**

**Units:** 0.148-2.962

**Advisory:** PAC 040

This course is designed to provide the student, employed or seeking employment in public agencies, with the skills and information necessary to satisfy the state requirements for the PC 832 Arrest course which covers the California justice system, professional behavior, law, evidence and discretionary decision making. This course can be taken alone or in combination with PAC 026, PC 832 Firearms and/or PAC 027, PC 832

Communications and Arrest Methods to satisfy varying agency requirements. Hours: 2-40 Lecture. 2-40 Lab.

#### **PAC 026**

##### **PC 832 Firearms**

**Units:** 0.148-2.962

**Prerequisite:** PAC 025 Pursuant to Section 13511.5 of the California Penal Code, each student who is not sponsored by a local or other law enforcement agency, must submit written certification from the California Department of Justice certifying no criminal history background which would disqualify the student pursuant to Section 12021.1 P.C.

This course is designed to provide the student employed or seeking employment in public agencies with the skills and information necessary to satisfy state requirements for the PC 832 Firearms course which covers firearms safety, care, cleaning, shooting and qualification. This course can be taken alone or in combination with PAC 025, PC 832 Arrest and/or PAC 027, PC 832 Communications/Arrest to satisfy varying agency requirements. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

Hours: 2-40 Lecture. 2-40 Lab.

#### **PAC 027**

##### **PC 832 Communications and Arrest Methods**

**Units:** 0.148-2.96

**Advisory:** PAC 025

This course is designed to provide the student employed or seeking employment in public agencies and currently have a working knowledge of the law enforcement functions with the skills and information necessary to satisfy state requirements for the PC 832 Communications and Arrest Techniques course which covers community relations, communications, report writing, arrest control and personal searches. This course can be taken alone or in combination with PAC 025, PC 832 Arrest and/or PAC 026, PC 832 Firearms to satisfy varying agency requirements. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

Hours: 2-40 Lecture. 2-40 Lab.

#### **PAC 028**

##### **Security Basic Course**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed to keep peace officers informed of new security basic instruction, new federal and state changes, and recent requirements which affect current law enforcement procedures. Security Basic Course presents new concepts in law enforcement procedures. The curriculum follows what is

recommended as refresher training by the California Commission Peace Officer Standards and Training, Consumer Affairs.

Hours: 36 Lecture.

#### **PAC 031**

##### **School Security Guard Training**

**Units:** 2

The course is designed to meet California State requirements for security guards in K-12 school districts or California Community College districts. According to California law, school security guards must complete a course of training developed by the Bureau of Security and Investigative Services (BSIS) in consultation with the California Commission on Peace Officer Standards and Training (POST) and in accordance with California's Business and Professions Code (section 7583.45) and Education Code (sections 38001.5 and 72330.5).

Hours: 36 Lecture.

#### **PAC 040**

##### **Basic Police Recruit Class**

**Units:** 46

**Enrollment requires medical clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets are exempt). It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This is a fundamental course that covers criminal law, evidence, procedure and investigation, firearms, first aid, defense tactics, use of chemical agents, and other police-related subjects. This course meets the educational requirements for basic certification by the Commission on Peace Officer Standards and Training (POST).

Hours: 774 Lecture. 162 Lab.

#### **PAC 042**

##### **Police Supervision**

**Units:** 4.5

**Advisory:** PAC 040 or PAC 075B, PAC 075C, PAC 075D

This course explains and applies the elements of supervision as they apply to law enforcement personnel. Methods of effective leadership, motivation, communication, and training techniques are presented. This course is certified by the California Commission on Peace Officer Standards and Training (POST).

Hours: 81 Lecture.

#### **PAC 043**

##### **Advanced Officers Course**

**Units:** 0.148-2.962

**Advisory:** PAC 040 or PAC 075B, PAC 075C and PAC 075D

This course is designed for upgrading currently employed law enforcement personnel. The curriculum follows that recommended by the Commission of Peace Officer Standards and Training.

The course is designed to keep peace officers informed of new laws, recent court decisions, current enforcement procedures, new concepts in law enforcement, technology, community relations and other refresher training as may be necessary.

Hours: 2-40 Lecture. 2-40 Lab.

#### **PAC 071**

##### **Public Safety Dispatcher Basic Course**

**Units:** 6

**Advisory:** PAC 040

This course takes up a variety of topics as they relate to a career as a public safety dispatcher, including professional orientation, criminal justice system, law, communication technology, telephone procedures, radio procedures, missing persons, domestic violence, referral services, cultural diversity, sexual harassment, hate crimes, gang awareness, stress management, critical incidents, telecommunications, and practical application activities. The course meets the California Commission on Peace Officer Standards Training (POST) requirements for the position of public safety dispatcher.

Hours: 102 Lecture. 18 Lab.

#### **PAC 075B**

##### **Basic Course-Module III (Ext)**

**Units:** 7

**Enrollment requires medical clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets are exempt). It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for those interested in becoming a Level III Reserve officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, vehicle operations, report writing, first aid/CPR, cultural diversity, and other related police topics. It is the level of training which satisfies the legal requirements for a Level III Reserve officer.

Hours: 99 Lecture. 81 Lab.

#### **PAC 075C**

##### **Basic Course-Module II (Ext)**

**Units:** 8.5

**Enrollment requires medical clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets exempt).**

**Prerequisite:** PAC 075B

This course is designed for those interested in becoming a Level II Reserve officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, community relations, report writing, cultural diversity, and other related police topics. It is training which satisfies the legal requirements for a Level II Reserve officer and can be used as a

Prerequisite for the PAC 075D Module I Course.

Hours: 117 Lecture. 108 Lab.

#### **PAC 075D**

##### **Basic Course - Module I (Ext)**

**Units:** 21.5

**Enrollment requires medical clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets exempt).**

**Prerequisite:** PAC 075B, PAC 075C

This course is designed for those interested in becoming a Level I Reserve officer or a regular peace officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, emergency vehicle operation, and other related police topics. It is the final level of training which constitutes satisfaction of the Regular Basic Course training requirement and the legal requirements for a Level I Reserve officer and a regular police officer in accordance with Commission on Peace Officer Standards and Training requirements.

Hours: 297 Lecture. 270 Lab.

#### **PAC 075E**

##### **Basic Academy Intensive Modular III**

**Units:** 7

**Enrollment requires medical Clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets are exempt) - It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for those interested in becoming a Level III Reserve officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, vehicle operations, report writing, first aid/CPR, cultural diversity, and other related police topics. It is the level of training which satisfies the legal requirements for a Level III Reserve officer.

Hours: 99 Lecture. 81 Lab.

#### **PAC 075F**

##### **Basic Academy Intensive Modular II**

**Units:** 8.5

**Enrollment requires medical Clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets are exempt)**

**Prerequisite:** PAC 075E

This course is designed for those interested in becoming a Level II Reserve officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, vehicle operations, report writing, first aid/CPR, cultural diversity, and other related police topics. It is the level of training which satisfies the legal requirements for a Level II Reserve officer.

Hours: 117 Lecture. 108 Lab.

#### **PAC 075G**

##### **Basic Academy Intensive Modular I**

**Units:** 21.5

**Enrollment requires medical clearance, California Department of Justice clearance for firearms training, Passing scores on POST written and physical tests (agency sponsored cadets are exempt).**

**Prerequisite:** PAC 075F

This course is designed for those interested in becoming a Post Certified Police Officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, vehicle operations, report writing, first aid/CPR, cultural diversity, and other related police topics. It is the level of training which satisfies the legal requirements for a Post Certified Police Officer.

Hours: 297 Lecture. 270 Lab.

#### **PAC 078**

##### **Requalification - Basic Course**

**Units:** 6

**Prerequisite:** PAC 040 or successful completion of a California POST Basic Police Academy and a California Department of Justice clearance for firearms training.

This course is for students who have completed basic police recruit academy training but have not been active in the law enforcement field for at least three years. The course provides a review of the skills and knowledge needed to return to active law enforcement duty. The topics covered include human relations, legal changes and a review of current legal issues, conducting a preliminary investigation, field tactics, the use of force and weaponry, and racial profiling.

Hours: 90 Lecture. 54 Lab.

#### **PAC 083**

##### **Pre-Academy Physical Fitness**

**Units:** 0.148-2.962

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed to help prospective police cadets improve their physical performance and keep informed of physical fitness techniques prior to entering the Rio Hondo Police Academy. The curriculum is geared toward and utilized by the California Commission on Peace Officer Standards and Training.

Hours: 2-40 Lecture. 2-40 Lab.

## **PHILOSOPHY**

### **Division of Behavioral and Social Sciences**

#### **PHIL 101**

##### **Introduction to Philosophy (C-ID:**

**PHIL 100)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Advisory:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 101 or PHIL 101H

This course introduces philosophical ideas and methods concerning knowledge, reality, and values. Expected topics include the sources and limits of knowledge and the nature of reality. Other topics that may be examined from a philosophical perspective include the nature of the self, truth, ethics, religion, science, language, beauty and art, political theory, and mind. This course is appropriate for students seeking a broader program of philosophical study or to fulfill a General Education Humanities or philosophy major requirement.

Hours: 54 Lecture.

#### **PHIL 101H**

##### **Introduction to Philosophy Honors**

**(C-ID: PHIL 100)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 101 or PHIL 101H

This course introduces philosophical ideas and methods concerning knowledge, reality, and values. Expected topics include the sources and limits of knowledge and the nature of reality. Other topics that may be examined from a philosophical perspective include the nature of the self, truth, ethics, religion, science, language, beauty and art, political theory, and mind. This course is appropriate for students seeking a broader program of philosophical study or to fulfill a General Education Humanities or philosophy major requirement, and is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

#### **PHIL 102**

##### **Introduction to Philosophy: Global Perspectives**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Advisory:** ENGL 101

**Transfers to:** CSU

This course introduces philosophical ideas and methods concerning knowledge, reality, and values, while centering voices and traditions from Asia, the Americas, and the African diaspora. Expected topics include the sources and limits of knowledge and the nature of reality. Other sample topics that may be examined from a philosophical perspective include the nature of the self, truth, ethics, political theory, and ways of life. This course is appropriate for students seeking a broader program of philosophical study or to fulfill a General Education

Humanities or philosophy major requirement.

Hours: 54 Lecture.

**PHIL 110  
Critical Thinking**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 110 or PHIL 110H

This course is an introduction to the methods and techniques of informal reasoning. Topics include schematizing and articulating arguments, causal arguments, analogical arguments, testimony arguments, and informal fallacies. Emphasis on the application of critical thinking for effective writing is reflected in the frequency, scope, and nature of course writing assignments, which are evaluated with regard to both content and form. Students should expect to write approximately 8,000 words in various writing assignments. This course is appropriate for students seeking to improve their writing and reasoning skills.

Hours: 54 Lecture.

**PHIL 110H  
Critical Thinking Honors**

**Units:** 3

**Prerequisite:** ENGL 101

**Advisory:** It is advised that students be able to read college-level texts.

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 110 or PHIL 110H

This course is an introduction to the methods and techniques of informal reasoning. Topics include schematizing and articulating arguments, causal arguments, analogical arguments, testimony arguments, and informal fallacies. Emphasis on the application of critical thinking for effective writing is reflected in the frequency, scope, and nature of course writing assignments, which are evaluated with regard to both content and form. Students should expect to write approximately 8,000 words in various writing assignments. This course is appropriate for students seeking to improve their writing and reasoning skills, and is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

**PHIL 112  
Introduction to Logic (C-ID: PHIL 110)**

**Units:** 3

**It is advised that students have a knowledge of elementary algebra concepts, be able to engage in written composition at a college level, and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 112 or PHIL 112H

This course introduces the formal methods and principles of deductive logic. Topics include translation between natural and formal language, syllogistic logic, and propositional logic. This course is especially recommended for students in mathematics, business, computer science, science, engineering, law, and humanities majors.

Hours: 54 Lecture.

**PHIL 112H  
Introduction to Logic Honors (C-ID: PHIL 110)**

**Units:** 3

**It is advised that students have a knowledge of elementary algebra concepts and be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 112 or PHIL 112H

This course introduces the formal methods and principles of deductive logic. Topics include translation between natural and formal language, syllogistic logic, and propositional logic. This course is especially recommended for students in mathematics, business, computer science, science, engineering, law, and humanities majors and is intended for students who meet Honors Program requirements.

Hours: 54 Lecture.

**PHIL 115  
Symbolic Logic (C-ID: PHIL 210)**

**Units:** 3

**Advisory:** PHIL 101 or PHIL 101H, PHIL 112 or PHIL 112H

**Transfers to:** UC/CSU

This course is intended for students interested in symbolic methods of deductive reasoning, including philosophy and mathematics majors. Students in the course develop an understanding of both sentential logic and predicate logic. Students also learn to translate ordinary language sentences and arguments into symbolic form, and evaluate symbolized arguments for validity using truth-tables and natural deduction techniques.

Hours: 54 Lecture.

**PHIL 120  
Introduction to Ethics (C-ID: PHIL 120)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Advisory:** ENGL 101

**Transfers to:** UC/CSU

This introductory level course is for students interested in the humanities, law, medicine, politics, social science and related fields, and will expose them to some of the most profound moral and ethical questions in the Western philosophical tradition. We will examine the concept of morality and values, representative ethical theories, and may include their applications to moral problems.

Hours: 54 Lecture.

**PHIL 122  
Philosophical Perspectives on Death & Dying**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course introduces students to a broad array of themes associated with death and dying. Students consider both practical and philosophical aspects of death, comparing the concept of death historically, socially, psychologically, and cross-culturally. Current legal, medical, and ethical issues related to death and dying are explored through the lens of philosophy, with topics that may include suicide, euthanasia, moral and social issues stemming from modern medical technology, hospice and palliative care, end-of-life issues, violent deaths, mass killings, and the beliefs and customs of various cultures worldwide concerning death and the possibility of an afterlife. This course is well suited for students interested in the humanities, law, medicine, politics, social science and related fields, or for those seeking to improve their ability to process and respond to death and dying in a healthy manner.

Hours: 54 Lecture.

**PHIL 124  
History of Philosophy: Ancient (C-ID: PHIL 130)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Advisory:** ENGL 101

**Transfers to:** UC/CSU

This introductory-level course is for students interested specifically in the earliest stages of ancient Western philosophy. The development of Greek philosophy from the Pre-Socratics through Aristotle is addressed, and Hellenistic, Roman, medieval or non-Western thinkers may be considered. Beyond a study of the figures and key ideas, the early view of philosophy as a "way of life" is considered, as is how these movements were intended to transform the lives of those who followed them.

Hours: 54 Lecture.

**PHIL 126  
History of Philosophy: Modern (C-ID: PHIL 140)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Advisory:** ENGL 101

**Transfers to:** UC/CSU

This introductory-level course is intended for all students interested in the modern period of Western philosophy (i.e., the 1500s through 1700s). Broad epistemological and metaphysical developments through close analysis of primary texts is



emphasized. Philosophers studied include Descartes and other rationalists, Hume and other empiricists, and Kant.  
Hours: 54 Lecture.

**PHIL 128**  
**Introduction to Political Philosophy (same as POLS 128) (C-ID: POLS 120)**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Advisory:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 128 or PHIL 128H

This course is for students interested in the relationship between political systems and philosophy, and is especially relevant for students interested in political science, philosophy, and law. The course introduces the history and development of political thought, and considers the justification of the state, interpretations of justice, systems of government, conceptions of rights and distributions of goods, and justification for civil disobedience, among other topics.  
Hours: 54 Lecture.

**PHIL 128H**  
**Introduction to Political Philosophy Honors (same as POLS 128H) (C-ID: POLS 120)**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Prerequisite:** ENGL 101  
**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PHIL 128 or PHIL 128H

This course is for students interested in the relationship between political systems and philosophy, and is especially relevant for students interested in political science, philosophy, and law. The course introduces the history and development of political thought, and considers the justification of the state, interpretations of justice, systems of government, conceptions of rights and distributions of goods, and justification for civil disobedience, among other topics. This course is designed for students who meet Honors Program requirements.  
Hours: 54 Lecture.

**PHIL 135**  
**Philosophy of Social Justice**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Advisory:** ENGL 101  
**Transfers to:** UC/CSU  
This introductory course explores the philosophical aspects of a variety of contemporary issues, with an emphasis on the theoretical foundations as well as practical applications of social justice. The course is intended for students interested in applying philosophical methods to contemporary topics in social justice,

enrolled in the Pathway to Law program (i.e., pre-law students), and/or majoring in philosophy, political science, or social justice.  
Hours: 54 Lecture.

**PHIL 140**  
**Philosophy of Religion**  
**Units: 3**

**It is advised that students be able to read college-level texts.**  
**Advisory:** ENGL 101  
**Transfers to:** UC/CSU  
This introductory-level course is intended for students who seek a thoughtful exploration of religious issues in a non-sectarian context, or as part of a broader program of philosophical study. Topics include Western religion from a philosophical perspective, including arguments for and against the existence of God, and an investigation into the status of religious beliefs. Additional topics may include a consideration of the evolution-creationism debate and a discussion of religious pluralism.  
Hours: 54 Lecture.

**PHIL 299**  
**Directed Study: Philosophy**  
**Units: 1-3**

**Transfers to:** CSU  
Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an Independent Study/Directed Study course, students must possess a 2.5 overall grade point average or a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies are the same as those for other courses. Units are awarded in accordance to Title 5 regulations, with one unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college wide.  
Hours: 54-162 Lab.

**PHIL 325**  
**Applied and Professional Ethics**  
**Units: 3**  
**Prerequisite:** ENGL 201 or ENGL 201H, PHIL 101 or PHIL 101H or PHIL 110 or PHIL 110H or PHIL 120

This upper division general education course is designed for students pursuing a Bachelor of Science in Automotive Technology. This course is intended for students who seek a greater understanding of the relationship between ethics and human living. This course will expose them to the moral and ethical views in the Western philosophical tradition. Students will then apply these views to various contemporary issues. Expected topics include: business ethics, euthanasia, terrorism, public policy, the death penalty, and issues in science and technology.  
Hours: 54 Lecture.

## PHOTOGRAPHY

### Division of Arts and Cultural Programs

**PHTO 110**  
**Introduction to Digital Photography**  
**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU  
This course is an introduction to digital photography as a creative art, emphasizing photography as a means of communication and personal expression. Topics include the theory of aesthetics, cultural significance, historical progression, elements of composition, visual literacy, and technical elements of photography; critical evaluation of student work is also a course component. Students are introduced to DSLR camera operation and digital imaging techniques, and required to supply their own digital camera. The course is suitable for students pursuing an Associate of Science Degree in Photography as well as non-majors.  
Hours: 36 Lecture. 72 Lab.

**PHTO 111**  
**Intermediate Digital Photography**  
**Units: 3**

**Prerequisite:** PHTO 110  
**Transfers to:** UC/CSU  
This course is designed for students who have successfully completed PHTO 110, and have a working knowledge of basic camera control and photographic composition. It will cover use of digital cameras, metadata, workflow organization, global and local image editing and manipulation, color theory, and basic lighting techniques using flash and strobe. Emphasis will be placed on using photography as a means of communication and personal expression. Students are required to supply their own DSLR or mirrorless cameras capable of shooting in RAW file format.  
Hours: 36 Lecture. 72 Lab.

**PHTO 130**

### **Beginning Photography**

**Units:** 3

**Advisory:** ART 120

**Transfers to:** UC/CSU

This course is designed for students who want to study the basic technical and conceptual approaches to contemporary photography. Traditional black-and-white photography techniques are explored, with special emphasis on the basic use of the 35 mm camera and enlarger, as well as the processing of black-and-white film and printing paper. Students are required to provide their own 35 mm camera with manual controls.

Hours: 36 Lecture. 72 Lab.

### **PHTO 131**

#### **Intermediate Photography**

**Units:** 3

**Prerequisite:** PHTO 130

**Transfers to:** UC/CSU

This course is designed for students who have successfully completed Beginning Photography and want to study more advanced technical and conceptual approaches to contemporary black and white photography in a 35 mm film-based, wet lab environment. Techniques such as the use of studio lighting, light meters, toners, hand coloring, and solarization are explored, with special emphasis given to understanding the conceptual framework for the production and analysis of both personal and commercial photographic imagery. Students are required to provide their own 35 mm camera with manual controls.

Hours: 36 Lecture. 72 Lab.

### **PHTO 140**

#### **Introduction to Lighting**

**Units:** 3

**Advisory:** PHTO 110 or TV 135

**Transfers to:** UC/CSU

In this course students use cameras to explore the creative use of light, and to produce works that apply to basic lighting principles with natural, continuous, or strobe light sources. Topics include an introduction to lighting vocabulary, design, and exposure control, and light modifiers are covered through concept-driven assignments. Relevant examples of lighting from historic and contemporary photography as well as the cinematic arts are presented throughout. This course is intended for all students working with camera-based media whose work requires the use of light to convey meaning, define a subject, or tell a story.

Hours: 36 Lecture. 72 Lab.

### **PHTO 230**

#### **Medium and Large Format Photography**

**Units:** 3

**Prerequisite:** PHTO 110, PHTO 130

**Transfers to:** UC/CSU

This course is for students who have completed beginning analog and digital photography courses

successfully and seek to study more advanced technical and conceptual approaches to photography using medium and large format cameras. The course is designed as a hybrid course that combines analog and digital techniques into one workflow. Special emphasis is given to the understanding and analysis of photographic imagery and portfolio development.

Hours: 36 Lecture. 72 Lab.

### **PHTO 299**

#### **Directed Study: Photography**

**Units:** 1-3

**Prerequisite:** PHTO 110, PHTO 130

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take Directed Study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## **PHYSICS**

### **Division of Mathematics, Sciences, and Engineering**

#### **PHY 120**

##### **Physics for Everyday Use**

**Units:** 4

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of an elementary algebra course. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive no credit for PHY 120 if taken after PHY 150 or PHY 211.

This course investigates the basic characteristics of matter and the interactions that govern its behavior, and emphasizes how remarkable everyday phenomena are from this perspective. Examples from popular culture (e.g., movies, TV, and sports) are utilized. Topics include how to describe an object's motion, how to explain changes in an object's motion, and the roles of work and energy, among other topics. The course is intended for non-science majors, stresses conceptual understanding, and presents students with an opportunity to see how our world works according to physics.

Hours: 54 Lecture. 54 Lab.

#### **PHY 150**

##### **General Physics I (C-ID: PHYS 100S, PHYS 105)**

**Units:** 4

**Prerequisite:** MATH 175

**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for one physics series: PHY 150 and PHY 160 or PHY 211, PHY 212, and PHY 213

This course is the first of a two-semester, trigonometry-based physics sequence and is designed for students transferring to a four-year institution and planning careers in health professional fields such as medicine, dentistry, veterinary science, pharmacy, and optometry as well as those students in engineering technology and architecture. Topics include kinematics, dynamics, energy, work, momentum, conservation principles, rotational motion, simple harmonic motion, fluids, and thermodynamics. Students majoring in the biological sciences should consult a counselor as to whether this course satisfies the general preparation requirements for their major at their intended transfer university.

Hours: 54 Lecture. 54 Lab.

#### **PHY 160**

##### **General Physics II (C-ID: PHYS 100S, PHYS 110)**

**Units:** 4

**Prerequisite:** PHY 150

**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for one physics series: PHY 150 and PHY 160 or PHY 211, PHY 212, and PHY 213.

This course is the second of a two-semester, trigonometry-based physics sequence and is designed for students transferring to a four-year institution with majors in health professional fields such as medicine, dentistry, veterinary science, pharmacy, and optometry as well as those students in engineering technology and architecture. Topics include electricity and magnetism, oscillations, waves, optics, and modern physics. Students majoring in the biological sciences should consult a counselor as to whether this course satisfies the general preparation requirements for their major at their intended transfer university.

Hours: 54 Lecture. 54 Lab.



**PHY 211****Physics for Scientists & Engineers - I  
(C-ID: PHYS 200S, PHYS 205)****Units:** 4**Prerequisite:** MATH 190 or MATH 190H**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for one physics series: PHY 150 and PHY 160 or PHY 211, PHY 212, and PHY 213.

This course is the first of a three-semester sequence designed for students transferring to four-year institutions with majors in the sciences and engineering. Topics covered include kinematics, dynamics, energy, work, momentum, and conservation principles.

Hours: 54 Lecture. 54 Lab.

**PHY 212****Physics for Scientists & Engineers - II  
(C-ID: PHYS 200S, PHYS 215)****Units:** 4**Prerequisite:** PHY 211 and MATH 191**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for one physics series: PHY 150 and PHY 160 or PHY 211, PHY 212, and PHY 213.

This course is the second of a three-semester sequence designed for students transferring to four-year institutions with majors in the sciences and engineering. Topics covered include kinematics, dynamics, energy, work, momentum, and conservation principles.

Hours: 54 Lecture. 54 Lab.

**PHY 213****Physics for Scientists & Engineers - III  
(C-ID: PHYS 200S, PHYS 210)****Units:** 4**Prerequisite:** PHY 211 and MATH 191**Advisory:** MATH 250**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for one physics series: PHY 150 and PHY 160 or PHY 211, PHY 212, and PHY 213.

This course is the first of a three-semester sequence designed for students transferring to four-year institutions with majors in the sciences and engineering. Topics covered include electric fields, electric potential, current, circuits, magnetic fields, Gauss' law, Ampere's law, Maxwell's equations, induction, and electromagnetic waves.

Hours: 54 Lecture. 54 Lab.

**PHY 220****Unmanned Rocket Science****Units:** 3**Prerequisite:** PHY 211**Transfers to:** UC/CSU

This course introduces students to the creation and implementation of payloads and unmanned flight vehicles. The payloads and unmanned vehicles such as rockets, balloons and unmanned aerial vehicles (drones) collect inflight atmospheric data that are later analyzed and presented.

Hours: 36 Lecture. 54 Lab.

**PHY 299A****Directed Study: General Studies****Units:** 1-3**Advisory:** PHY 211 or PHY 212 or PHY 213**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance with Title 5 regulations with 1 unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester.

Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college-wide.

Hours: 54-162 Lab.

**PHY 299B****Directed Study: Biophysics and Biophysics Research I****Units:** 1-3**Advisory:** PHY 211, PHY 212 and PHY 213**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance with Title 5 regulations with 1 unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must

be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college-wide.

Hours: 54-162 Lab.

**PHY 299C****Directed Study: Biophysics and Biophysics Research II****Units:** 1-3**Advisory:** PHY 211, PHY 212 and PHY 213**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress is evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in

accordance with Title 5 regulations with 1 unit of credit awarded for 54 hours of Directed Studies, 6 hours of which must be with an instructor. The instructor is responsible for monitoring student progress throughout the semester. Students may take directed study courses for a maximum of 3 units within a discipline, and may not accumulate more than a total of 9 units college-wide.

Hours: 54-162 Lab.

## POLITICAL SCIENCE

### Division of Behavioral and Social Sciences

**POLS 110****Government of the United States (C-ID: POLS 110)****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for only one of the following courses: POLS 110 or POLS 110H

This course surveys and analyzes the origins, principles, institutions, policies, and politics of U.S. National and

California State Governments, including their constitutions. Emphasis is placed on the rights and responsibilities of citizens, and an understanding of the political processes and issues involved in the workings of government. This course fulfills the American Institutions requirement for the Associate Degree. It also is suitable for students wishing to expand their knowledge of local, state and national governments. Hours: 54 Lecture.

**POLS 110H**  
**Government of the United States**  
**Honors (C-ID: POLS 110)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: POLS 110 or POLS 110H

This course surveys and analyzes the origins, principles, institutions, policies, and politics of U.S. National and California State Governments, including their constitutions. Emphasis is placed on the rights and responsibilities of citizens, and an understanding of the political processes and issues involved in the workings of government. This course fulfills the American Institutions requirement for the Associate Degree. It also is suitable for students wishing to expand their knowledge of local, state and national governments. This course is intended for students eligible for the Honors Program. Hours: 54 Lecture.

**POLS 115**  
**Women in U.S. Politics**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the status and role of women in American politics and their participation in the electoral process as voters, activists, candidates, and elected officeholders. Topics of discussion include theoretical frameworks and approaches to studying women in American politics; the intersection of gender, race, and ethnicity in U.S. politics; the gender gap in elections and public opinion; gender stereotypes in American elections; women's underrepresentation in U.S. politics; and women in political institutions. Hours: 54 Lecture.

**POLS 120**  
**California State and Local**  
**Governments**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course stresses the study of California state and local government (counties, cities, and special districts) and California party politics, including the study of the California constitution, intergovernmental relations, regional governments, and urban politics and problems. This course is designed to make available to students the concepts, information, and skills which will enable them to better understand the political and governmental systems in which Californians function. Hours: 54 Lecture.

**POLS 125**  
**Law and Democracy**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course provides an examination and analysis of practical law as it affects people in daily life as citizens in a democracy. It assists in the development of skills to successfully navigate legal systems and in understanding democratic political values. Emphasis is placed on constitutional rights and civil liberties, police encounters and criminal law, local government and advocacy, small claims and traffic courts, landlord/tenant relations, family law, consumer rights, contracts, employment and immigration. Further emphasis is placed on application, critical thinking and problem solving in common legal situations. This course is designed for any student wishing to learn more about the law and its interaction with democratic government and those students wishing to attend law school. It is also a requirement for any student seeking to participate in the Community College Pathway to Law School Initiative. Hours: 54 Lecture.

**POLS 128**  
**Introduction to Political Philosophy**  
**(same as PHIL 128) (C-ID: POLS 120)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Advisory:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: POLS 128 or POLS 128H

This course is for students interested in the relationship between political systems and philosophy, and is especially relevant for students interested in political science, philosophy, and law. The course introduces the history and development of political thought, and considers the justification of the state, interpretations of justice, systems of government, conceptions of rights and distributions of goods, and justification for civil disobedience, among other topics. Hours: 54 Lecture.

**POLS 128H**  
**Introduction to Political Philosophy**  
**Honors (same as PHIL 128H) (C-ID: POLS 120)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: POLS 128 or POLS 128H

This course is for students interested in the relationship between political systems and philosophy, and is especially relevant for students interested in political science, philosophy, and law. The course introduces the history and development of political thought, and considers the justification of the state, interpretations of justice, systems of government, conceptions of rights and distributions of goods, and justification for civil disobedience, among other topics. This course is designed for students who meet Honors Program requirements. Hours: 54 Lecture.

**POLS 130**  
**Comparative Government (C-ID: POLS 130)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the political systems of selected industrial democracies, dictatorships, and governments of the developing world. Emphasis is placed on the institutional development and political processes and cultures within these countries. The course features an examination of current political problems and a comparison of such differing ideologies as Marxism, democracy, theocracy, and totalitarianism, and is intended for students interested in the study of foreign governments as well as those who want to major in political science. Hours: 54 Lecture.

**POLS 135**  
**International Political Economy**  
**(same as ECON 135)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This is an introductory course designed for students interested in economics and political science, as well as anyone interested in the global interconnectedness of the world economy. The course focuses on the relations between the political and economic systems within the global economy. The course covers the impact of political decisions on world economies and international organizations. Further emphasis is placed on a comparison-contrast of

various national economies. Geographic areas of concern include Africa, Europe, the Pacific Rim, the Middle East, Latin America, Russia, China, and the United States. The course is cross-listed as Economics 135 and Political Science 135. Credit is given in either area, not both.

Hours: 54 Lecture.

#### **POLS 140**

##### **International Relations (C-ID: POLS 140)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the structure and operation of the international system. Emphasis is placed on the nature and sources of conflict and cooperation, issues of war and peace among states in the international system, and international economic development. The impact of nation-states, international organizations, and non-governmental actors are all examined. This course is suitable for students who wish to expand their knowledge of international politics and for those who wish to major in political science or international relations.

Hours: 54 Lecture.

#### **POLS 150**

##### **Latinx Politics**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course examines the history and contemporary role of Latinx people in the U.S. political system. Much of the course will explore the migration and political activism of the largest Latinx-origin groups: Mexican, Puerto Rican, Cuban, Salvadorean, Dominican, and Guatemalan. The course begins with a review of U.S. demographics and discussion about "Latino" and "Hispanic" as meaningful political terms. Students also learn about the political institutional context in the U.S.; examine the political relationships between Latinx and non-Latinx groups as they relate to political parties, voting coalitions, representation and public policy; and learn how to analyze data on Latinx public opinion, voting behavior, and political attitudes.

Hours: 54 Lecture.

#### **POLS 299**

##### **Directed Study: Political Science**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study

course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

## **PSYCHOLOGY**

### **Division of Behavioral and Social Sciences**

#### **PSY 101**

##### **Introductory Psychology (C-ID: PSY 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit.

Students will receive credit for only one of the following courses: PSY 101 or PSY 101H

This course is designed as a general introduction to psychology for psychology majors, those with an interest in psychology, or anyone with a desire to further their understanding of human behavior. It provides an overview of the field of psychology, introducing students to the research methods used to advance the science of psychology and the various areas that comprise this diverse discipline. Research and theories are presented, discussed, and evaluated. Topics covered include biological psychology, sensation and perception, lifespan development, learning, memory, motivation and emotion, cognition, personality, psychopathology and social psychology.

Hours: 54 Lecture.

#### **PSY 101H**

##### **Introductory Psychology Honors (C-ID: PSY 110)**

**Units:** 3

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PSY 101 or PSY 101H

This course is designed as a general introduction to psychology for psychology majors, those with an interest in psychology, or anyone with a desire to further their understanding of human behavior. It provides an overview of the field of psychology, introducing students to the research methods used to advance the science of psychology and the various areas that comprise this diverse discipline. Research and theories are presented, discussed, and evaluated. Topics covered include biological psychology, sensation and perception, lifespan development, learning, memory, motivation and emotion, cognition, personality, psychopathology, and social psychology. This course is intended for those who meet Honors Program requirements.

Hours: 54 Lecture.

#### **PSY 112**

##### **Lifespan Development (C-ID: PSY 180)**

**Units:** 3

**It is advised that students be able to engage in written composition at the college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit.

Students will receive credit for only one of the following courses: PSY 112 or CD 106

This course provides an overview of human psychological development across the lifespan. The course addresses the physical, cognitive, social, and emotional changes that occur from the prenatal period through death; explores the development issues of stability versus change, continuity versus discontinuity, and nature versus nurture; examines the perspectives of major developmental theorists, including Freud, Erickson, and Piaget; and considers current research findings and their applicability to ongoing developmental problems. This course is appropriate for students who want to develop a better understanding of the developmental gains and losses that occur throughout our lives.

Hours: 54 Lecture.

#### **PSY 114**

##### **Introduction to Abnormal Psychology (C-ID: PSY 120)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course provides an introduction to the study of abnormal behavior for psychology majors, those with an interest in mental illness, or anyone with a desire to further their

understanding of how psychological "abnormalities" are defined, studied, and treated. The classification, assessment and treatment of psychological disorders will be explored. Students will not only develop an understanding of the etiology and diagnosis of such disorders, as based upon the criteria provided in the most current version of the Diagnostic and Statistical Manual of Mental Disorders ("DSM"), but develop an appreciation of the cultural, historical and theoretical influences that affect the definitions and treatment of abnormal behavior. Hours: 54 Lecture.

#### **PSY 121**

##### **Drugs, Society, and Behavior (C-ID: ADS 110X)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for the student who seeks a basic understanding of the effects of drugs of abuse and an in-depth consideration of the societal aspects of psychoactive drugs. It is designed for those students interested in furthering their understanding of psychoactive drugs and those interested in working with populations recovering from or at risk for drug problems. Current and historical uses of and attitudes towards drugs will be addressed, as well as drug use disorders, drug legislation, and treatment options. Societal and cultural differences will also be noted. Hours: 54 Lecture.

#### **PSY 127**

##### **Introduction to the Physiological Effects of Drugs of Abuse (C-ID: ADS 140X)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in furthering their understanding of psychoactive drugs, and those interested in working with populations recovering from or at risk for drug problems. The course examines the pharmacological actions of drugs of abuse as they relate to the physiological and behavioral effects of such drugs, and emphasizes the properties of drugs that increase the likelihood of developing substance use disorders. Hours: 54 Lecture.

#### **PSY 180**

##### **Positive Psychology**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course focuses on the research, theories, and ideas surrounding, promoting, and maintaining well-being, good health, and happiness. Students explore topics in the field of positive psychology including but not limited to wellness, optimism, flow, happiness, and positive thinking. The course is beneficial for students majoring in psychology, or looking to transfer as a psychology major. Hours: 54 Lecture.

#### **PSY 190**

##### **Statistics for the Behavioral Sciences (C-ID: MATH 110, SOCI 125)**

**Units:** 4

**Enrollment requires appropriate placement (based on high school GPA and/or other measures), or completion of a pre-statistics or an intermediate algebra course.**

**Advisory:** ENGL 101 and the ability to read college-level texts.

**Transfers to:** UC/CSU - UC credit limit. The UC will grant credit for only one of the following courses: MATH 130 or MATH 130H or PSY 190.

This course provides an overview of the types of statistics that are important in the behavioral sciences. It is designed to teach students majoring in psychology, sociology, political science, and anthropology how to present and interpret experimental data. The course focuses on hypothesis testing and the statistics used to analyze assumptions, with topics including basic probability, measures of central tendency, measures of variance, sampling, and inferential statistics. Hours: 72 Lecture.

#### **PSY 200**

##### **Research Methods in Psychology (C-ID: PSY 200)**

**Units:** 3

**Prerequisite:** PSY 101 or PSY 101H and PSY 190 or MATH 130 or MATH 130H

**Transfers to:** UC/CSU

This course provides an introduction to the philosophy of science and the examination of hypothetical deductive methods and their relationship to theory. Topics include the nature of experimental research and design, experimental and non-experimental research-including group and single-subject designs, literature reviews, research ethics, the collection and analysis of data, and writing APA-style reports. Collection, handling, and analysis of original empirical data during and outside of class, and in both experimental and nonexperimental designs, are an integral component of the course. The course is designed for students intending to pursue a degree in psychology. Hours: 36 Lecture. 54 Lab.

#### **PSY 210**

##### **Biological Psychology (C-ID: PSY 150)**

**Units:** 3

**Prerequisite:** PSY 101

**Transfers to:** UC/CSU - UC credit limit. The UC will only grant credit for one of the following courses: PSY 210 or PSY 210H

This course is designed for students interested in understanding the biological processes that underlie human behavior. The biological basis of normal and abnormal behavior—including sensory systems, brain and behavior relationships, and underlying neurochemical processes—is explored, as is the extent to which biological processes interact with environmental influences to determine behavior. Hours: 54 Lecture.

#### **PSY 210H**

##### **Biological Psychology Honors (C-ID: PSY 150)**

**Units:** 3

**Enrollment is restricted to those who meet Honors Program requirements (minimum GPA of 3.0)**

**Prerequisite:** PSY 101, ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: PSY 210 or PSY 210H

This course is designed for students interested in understanding the biological processes that underlie human behavior. The biological basis of normal and abnormal behavior—including sensory systems, brain and behavior relationships, and underlying neurochemical processes—is explored, as is the extent to which biological processes interact with environmental influences to determine behavior. This course is intended for students eligible for the Honors Program. Hours: 54 Lecture.

#### **PSY 299**

##### **Directed Study: Psychology**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours



of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## RADIO

### Division of Communications and Languages

#### **RDIO 104** **Radio Broadcasting** **Units: 3**

**It is advised that students be able to engage in college composition written at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course introduces students to the field of broadcasting and related electronic media, with emphasis placed on the history, development, and current status of broadcasting and related industries. Students explore the broadcasting industry and develop "on-air" skills for a variety of radio formats, and upon completion, demonstrate knowledge of the regulations, organizational structures, revenue sources, historical development, and ongoing operation of broadcasting and related industries.  
Hours: 54 Lecture.

#### **RDIO 105** **Introduction to Radio News Writing** **Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed to teach students how to write news for radio. Students learn to use proper industry templates for writing dialogue, public service announcements, live broadcasts, and other radio segments. The course also covers radio terminology with a focus on the theories and practices of radio broadcast newsgathering, writing, and on-air talent delivery.  
Hours: 54 Lecture.

#### **RDIO 119** **Sports Radio Broadcasting** **Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

In this course, students broadcast local and Rio Hondo College-related sports for radio on the website of the *El Paisano* student newspaper website. Broadcasted sports may include

baseball, soccer, basketball, water polo, tennis, volleyball, or other sports played during the semester. Students also broadcast play-by-play and interview athletes and coaches.  
Hours: 36 Lecture. 54 Lab.

#### **RDIO 122** **Introduction to Radio Announcing** **Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

In this course, students are introduced to narrating, dubbing, and announcement work used in the radio industry. The course includes the development and use of radio terminology and an in-depth study of microphone techniques.  
Hours: 54 Lecture.

#### **RDIO 136** **Radio Production** **Units: 4**

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This introductory-level course focuses on the theory and application of audio production techniques for radio broadcasting. Students learn about audio equipment for both live and pre-recorded (i.e., live-to-tape) broadcasting, broadcast writing, radio program formats, announcing skills, how to use recording equipment, mixers, and digital audio production.  
Hours: 36 Lecture. 108 Lab.

#### **RDIO 236** **Advanced Radio Production** **Units: 4**

**Prerequisite:** RDIO 136

**Transfers to:** UC/CSU

This course is an opportunity for advanced study for students who want to learn production and management techniques used in radio broadcasting. Students are shown proper announcing and on-air presentation techniques through lecture, demonstration, and taped examples. Students will have an opportunity to air their programs over KRHC, the campus internet radio station.  
Hours: 36 Lecture. 108 Lab.

#### **RDIO 290** **Cooperative Work Experience/ Internship for Radio Related Fields** **Units: 1-4**

**Prerequisite:** RDIO 104

**Transfers to:** CSU

This course supports and reinforces on-the-job training in radio related fields under supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in an area of radio related fields and will meet performance objectives related to instruction that are above and beyond

the conditions of regular employment. This course is intended for students whose intended job is related to the field of radio and have completed or enrolled in the appropriate coursework. "Contact the CWE office regarding re-enrollment procedures".  
**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.  
**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.  
Hours: 60-300 Lab.

#### **RDIO 299** **Directed Study: Radio** **Units: 1-3**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## READING AND STUDY SKILLS

### Division of Communications and Languages

#### **READ 012** **Learning Strategies** **Units: 1.5**

**Advisory:** ENLA 034 or appropriate placement, READ 021 or appropriate placement

This course is designed for students entering college who need to develop their skills as learners. Students acquire

and build study techniques in the areas of note taking, test taking, reading, memorizing, time planning, and communicating. Emphasis is placed on learning new techniques and then applying them to classes and work situations. This is a non-degree-applicable credit course and is offered on a pass/no pass basis.  
Hours: 27 Lecture.

#### **READ 101**

##### **Critical Reading**

**Units:** 3

**Enrollment requires the ability to read college-level texts. It is advised that students be able to engage in written composition at a college level.**

**Transfers to:** UC/CSU

This course is designed to aid students in acquiring critical reading and thinking skills across disciplines. Emphasis is placed on the ability to analyze and evaluate material by establishing thesis and support as well as by analyzing elements of argumentation. The course also focuses on vocabulary and the effects of language on readers.  
Hours: 54 Lecture.

#### **READ 134**

##### **Academic Success and Lifelong Learning**

**Units:** 3

**It is advised that students be able to engage in college composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students to acquire reading and study strategies for college success and lifelong learning. Outcomes include the knowledge of applicable educational learning theories as well as psychological and physiological tools that promote self-development in learning. Specific topics consist of reading print versus digital texts, critical thinking, lecture and textbook note taking, metacognitive strategies, test preparation, and time management.  
Hours: 54 Lecture.

## **SOCIOLOGY**

### **Division of Behavioral and Social Sciences**

#### **SOC 101**

##### **Introduction to Sociology (C-ID: SOCI 110)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SOC 101 or SOC 101H

This course is designed for students with an interest in the discipline of

sociology, or anyone who wants to further their understanding of human group behavior and the organization of society. Using several theoretical points of view, students study and analyze the organization of social life; problems of inequality, including age, sex, race and ethnicity, social class, and lifestyle; the basic social institutions of family, religion, and economics; and global issues related to technology, social movements, and social change.  
Hours: 54 Lecture.

#### **SOC 101H**

##### **Introduction to Sociology Honors (C-ID: SOCI 110)**

**Units:** 3

**Enrollment is restricted to those who meet the Honors Program requirements (minimum GPA of 3.0). It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SOC 101 or SOC 101H

This course is designed for students with an interest in the discipline of sociology, or anyone who wants to further their understanding of human group behavior and the organization of society. Using several theoretical points of view, students study and analyze the organization of social life; problems of inequality, including age, sex, race and ethnicity, social class, and lifestyle; the basic social institutions of family, religion, and economics; and global issues related to technology, social movements, and social change. This course is intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### **SOC 102**

##### **Major Social Problems (C-ID: SOCI 115)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to read college-level texts.**

**Transfers to:** UC/CSU

This course is designed to provide students with an understanding of the definition, development, reduction, and elimination of major social problems in contemporary society. Topics include problems of mental and physical health, including addictions, crime and violence, social inequality, terrorism and war, and technology and the environment. Various social theories and relevant empirical research are critically examined throughout the course.  
Hours: 54 Lecture.

#### **SOC 105**

##### **Introduction to Human Sexuality**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students interested in the social scientific study of human sexuality. The course provides students with knowledge about the processes and variation in sexual functions, reproduction, intimate relationships, sexual and gender role development, and sexual activities. The social, cultural, and historical contexts of human sexuality are critically analyzed; and numerous factors involved in human sexuality are explored, emphasizing sexuality as a form of human interaction.  
Hours: 54 Lecture.

#### **SOC 110**

##### **Human Sexuality from a Cross-Cultural Perspective**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students interested in human sexuality from a cross-cultural perspective. Sexual anatomy, development, response, and behavior will be examined, along with historical and cultural patterns. Students will learn about the development and expression of gender and orientation from both Western and non-Western perspectives, with an emphasis on the influence of culture on individuals.  
Hours: 54 Lecture.

#### **SOC 114**

##### **Marriage, Family and Intimate Relationships (C-ID: SOCI 130)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for the student interested in examining, from a sociological perspective, issues such as marriage, family, and emerging alternative life styles which constitute the reality of life today. The course explores love, sexuality, mate selection, and engagement preceding traditional marriage and family patterns, extra-marital and non-marital unions, singles, and future trends in intimate relationship styles.  
Hours: 54 Lecture.

#### **SOC 116**

##### **Power, Oppression, and Privilege: Race and Ethnic Relations (C-ID: SOCI 150)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students interested in understanding the complexities of multiethnic, multiracial societies. The course presents an overview of the structure and character



of racial and ethnic relations in the United States and abroad. Students gain knowledge of the treatment and experiences of a variety of racial and ethnic groups and gain insight into the complex social features of intergroup contact.

Hours: 54 Lecture.

### **SOC 120**

#### **She, He, They: Intersections of Gender (C-ID: SOCI 140)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

In this course students explore how gender shapes peoples' lives and the world around them. Using a sociological perspective, students will examine gender as a social construction rather than a simple biological difference. Topics may include cultural ideas of gender, gender and the economy, politics, the media, families, and education. This course is designed for students who want to learn more about the social connections of gender, and how the importance of gender differences are reinforced in society today.

Hours: 54 Lecture.

### **SOC 127**

#### **Introduction to Criminology (C-ID: SOCI 160)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students interested in the subject of criminology. The scientific analysis of the nature, extent, and causes of violations of societal rules of behavior formally defined as crime and delinquency is emphasized. The course includes an analysis of the development of criminal law and the administration of criminal justice; the patterns of criminality and delinquency; the impact of crime on social change; and the labeling, identification, characteristics, and treatment of criminals and delinquents.

Hours: 54 Lecture.

### **SOC 130**

#### **Introduction to Disability Studies**

**Units:** 3

**Advisory:** SOC 101

**Transfers to:** UC/CSU

This course introduces the topic of disability studies from a sociological perspective. Students learn definitions and distinctions involved in the study of disabilities, which include various theories and models of disability. The course is designed for students who want to learn about the connections between disability and society, including the culture of disability and ableism, the relationship between disability and various social institutions,

and the intersectional relationship between disabled and other marginalized groups.

Hours: 54 Lecture.

### **SOC 299**

#### **Directed Study in Sociology**

**Units:** 1-3

**Prerequisite:** SOC 101

**Transfers to:** CSU

This course provides an opportunity for students to expand their studies in Sociology beyond the classroom by completing a project or an assignment arranged by an agreement between students and an instructor.

Independent study/directed study is intended for students able to assume responsibility for independent work, and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent studies/directed studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area.

Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress are evaluated at regular intervals. Academic standards for independent studies/directed studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with one unit (1) of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor.

The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 54-162 Lab.

### **SOC 325**

#### **Analysis of Social Change**

**Units:** 3

**Prerequisite:** ENGL 201, SOC 101 or SOC 101H or SOC 102

This upper division general education course is designed for students pursuing a Bachelors of Science degree in Automotive Technology and is open to all of those students who have successfully completed the required prerequisites. Students will develop a broad understanding of social change within society through the examination of the various social mechanisms that lead to, promote, and eventually incorporate or quell the products and processes of social change. Special attention will be paid to Industrialization, globalization, social movements, the implementation and evolution of technology and how social change is shaped by and produces unique social behavior.

Hours: 54 Lecture.

## **SPANISH**

### **Division of Communications and Languages**

#### **SPAN 101**

##### **Spanish I (C-ID: SPAN 100)**

**Units:** 4.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following sequences of courses: SPAN 101 and SPAN 102 or SPAN 101S and SPAN 102S

This course is an introduction to the essentials of Spanish language: reading, listening, speaking, and writing skills. Various facets of Spanish-speaking cultures will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for those students who do not have a Spanish language background who wish to learn to speak Spanish or who seek a degree in the Spanish language.

Hours: 72 Lecture. 27 Lab.

#### **SPAN 101S**

##### **Spanish for Spanish Speakers I (C-ID: SPAN 100)**

**Units:** 4.5

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following sequences of courses: SPAN 101 and SPAN 102 or SPAN 101S and SPAN 102S

This course is an introduction to the essentials of Spanish language: reading, listening, speaking, and writing skills. Various facets of Spanish-speaking cultures will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for those students who do have a Spanish language background and want to develop a better written and oral competency in the language, or who seek a degree in the Spanish language.

Hours: 72 Lecture. 27 Lab.

**SPAN 102**  
**Spanish II (C-ID: SPAN 110)**

**Units:** 4.5

**Prerequisite:** SPAN 101 or completion of 2 years of high school Spanish with a grade of "C" or better

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following sequences: SPAN 101 and SPAN 102 or SPAN 101S and SPAN 102S

This course is a continuation of the study of the essentials of Spanish language: reading, listening, speaking, and writing skills. The skills learned in SPAN 101 will be reviewed. The class will increase vocabulary, grammar, and cultural knowledge to improve on the reading, listening, speaking and writing skills presented in SPAN 101. In this course the study of verb tenses and constructions is completed. Various facets of Spanish-speaking cultures will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for those students who do not have a Spanish language background who wish to learn to speak Spanish or who seek a degree in the Spanish language.

Hours: 72 Lecture. 27 Lab.

**SPAN 102S**  
**Spanish for Spanish Speakers II (C-ID: SPAN 110)**

**Units:** 4.5

**Prerequisite:** SPAN 101S

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following sequences: SPAN 101 and SPAN 102 or SPAN 101S and SPAN 102S

This course is a continuation of the essentials of the Spanish language: reading, listening, speaking, and writing skills. The skills learned in Spanish 101S will be reviewed. The class will increase vocabulary, grammar, and cultural knowledge to improve on the reading, listening, speaking and writing skills presented in Spanish 101S. In this course, the study of verb tenses and constructions is completed. It is designed to further improve the language skills of students with a Spanish language background. Various facets of Spanish-speaking cultures will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is

designed for those students who do have a Spanish language background and want to develop a better written and oral competency in the language, or who seek a degree in the Spanish language.

Hours: 72 Lecture. 27 Lab.

**SPAN 201**  
**Spanish III (C-ID: SPAN 200)**

**Units:** 4.5

**Prerequisite:** SPAN 102 or SPAN 102S or completion of three years of high school Spanish with a grade of "C" or better.

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SPAN 201 or SPAN 201H

This is an intermediate level course in which Spanish grammar is reviewed. It includes intensive practice in conversation and composition. Many aspects of Spanish culture are introduced in short stories by Latin-American and Spanish authors. Students strengthen their communications and written skills by analyzing these stories in Spanish. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for students who wish to broaden their knowledge in Spanish as well as for those seeking a degree in the Spanish language.

Hours: 72 Lecture. 27 Lab.

**SPAN 201H**  
**Spanish III Honors (C-ID: SPAN 200)**

**Units:** 4.5

**Prerequisite:** ENGL 101, SPAN 102 or SPAN 102S or completion of three years of high school Spanish with a grade of "C" or better.

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SPAN 201 or SPAN 201H

This is an intermediate level course in which Spanish grammar is reviewed. It includes intensive practice in conversation and composition. Many aspects of Spanish culture are introduced in short stories by Latin-American and Spanish authors. Students strengthen their communications and written skills by analyzing these stories in Spanish. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for students who wish to broaden their knowledge in Spanish as well as for those seeking a degree in

the Spanish language. This course is intended for students eligible for the Honors Program.

Hours: 72 Lecture. 27 Lab.

**SPAN 202**  
**Spanish IV (C-ID: SPAN 210)**

**Units:** 4.5

**Prerequisite:** SPAN 201 or SPAN 201H or completion of four years of high school Spanish with a grade of "C" or better.

**Transfers to:** UC/CSU

This course is the continuation of SPAN 201. SPAN 202 is an intermediate level course in which Spanish language and culture is reviewed. It stresses written and oral proficiency as well as reading comprehension and composition. Many aspects of Spanish culture, literature, and history are analyzed in readings by Latin American and Spanish authors. Students strengthen their communication and writing skills by analyzing these stories in Spanish. In addition to classroom discussion, students are required to complete at least 27 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. This class is designed for those students who wish to broaden their knowledge in Spanish as well as for those interested in pursuing a degree in the Spanish language.

Hours: 72 Lecture. 27 Lab.

**SPAN 299**  
**Directed Study: Spanish**

**Units:** 1-3

**Transfers to:** CSU  
Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study

courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## SPEECH

### Division of Communications and Languages

#### **SPCH 100**

**Interpersonal Communication (C-ID: COMM 130)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This introductory course focuses on the kinds of interpersonal communication interactions that happen between two people. Designed to provide students with greater understanding of communication in everyday activities, the course focuses on self-discovery and strengthening the self-image; discovering and understanding the factors that influence communication behavior; and the establishment and maintenance of meaningful relationships in professional and social settings. This course is designed for speech communication majors or anyone with an interest in human communication.  
Hours: 54 Lecture.

#### **SPCH 100H**

**Interpersonal Communication Honors**

**Units: 3**

**Prerequisite:** ENGL 101

**Transfers to:** CSU

This introductory course focuses on the kinds of interpersonal communication interactions that happen between two people. Designed to provide students with greater understanding of communication in everyday activities, the course focuses on self-discovery and strengthening the self-image; discovering and understanding the factors that influence communication behavior; and the establishment and maintenance of meaningful relationships in professional and social settings. This course is designed for speech communication majors or anyone with an interest in human communication. This course is intended for students eligible for the Honors Program.  
Hours: 54 Lecture.

#### **SPCH 101**

**Public Speaking (C-ID: COMM 110)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SPCH 101 or SPCH 101H.

This introductory course is designed to prepare students to be effective oral communicators in all aspects of public presentations, including design and delivery of a public speech. The course is appropriate for all students interested in developing their public speaking knowledge and skills, such as speech communications and languages majors, future teachers, and future business leaders.

Hours: 54 Lecture.

#### **SPCH 101H**

**Public Speaking Honors (C-ID: COMM 110)**

**Units: 3**

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SPCH 101 or SPCH 101H.

This introductory course is designed to prepare students to be effective oral communicators in all aspects of public presentations, including design and delivery of a public speech. The course is appropriate for all students interested in developing their public speaking knowledge and skills, such as speech communications and languages majors, future teachers, and future business leaders. This course is designed for students eligible for the Honors Program.

Hours: 54 Lecture.

#### **SPCH 110**

**Forensics: Speech & Debate Team (C-ID: COMM 160B)**

**Units: 2-4**

**Prior or concurrent enrollment in SPCH 101 or SPCH 101H or SPCH 130 or SPCH 140 is recommended. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course trains students to participate in Rio Hondo College's Forensic Speech and Debate Team. Emphasis is placed on preparation, including research and writing; practice; and participation in intercollegiate speech and debate tournaments and/or community events. Students learn debate, oral interpretation, limited preparation, and platform speaking. The course is appropriate for students specializing in areas involving public speaking such as law, political science, drama, and instruction. Students who sign up for the lab hours are required to compete. This course may be taken once and repeated three times for credit.

Hours: 18 Lecture. 54-162 Lab.

#### **SPCH 120**

**Small Group Communication**

**Units: 3**

**Transfers to:** UC/CSU

This course focuses on the communication principles that occur in small group settings. Emphasis is placed on the theory, application, and evaluation of group communication processes such as problem solving, conflict management, decision making, and leadership. The course is intended for students studying communication or any discipline requiring effective communication in group settings.  
Hours: 54 Lecture.

#### **SPCH 130**

**Oral Interpretation (C-ID: COMM 170)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course focuses on the oral performance aspects of various forms of literature, including poetry, prose, and drama. The skills needed for making such public performances are addressed and students' knowledge of the various forms of literature will be enhanced. Emphasis is placed on creating the essence of characters in a text through facial, vocal, and kinetic methods. This course is appropriate for speech majors or anyone interested in public performance and literature.  
Hours: 54 Lecture.

#### **SPCH 132**

**Readers Theatre**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This is a creative communication course focusing on group presentations of literature. Students will perform prose, drama, and/or poetry in groups so that a communicative message emerges and fosters imaginative responses in the minds of an audience. Emphasis is placed on the fusion between rhetoric, interpretation, and acting. Readers Theatre is designed for Speech Communication majors and those interested in literature and performance.  
Hours: 54 Lecture.

#### **SPCH 140**

**Argumentation and Debate (C-ID: COMM 120)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SPCH 140 or SPCH 240.

This course is an introduction to the principles and techniques of argumentation and debate. Effective

methods of research, critical analysis, reasoning, refutation, and listening are stressed. Through debate participation and analysis, students will gain the knowledge and skills to advocate and refute argumentative positions. This course is particularly appropriate for students anticipating entering occupations where argumentation, negotiation, and issue-analysis are likely to occur.

Hours: 54 Lecture.

#### **SPCH 150**

##### **Intercultural Communication (C-ID: COMM 150)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is an introduction to intercultural communication. Emphasis is placed on applying intercultural theories and concepts to understand the influence of cultural membership upon communicative situations. Students who complete the course improve their intercultural communication competence. This course is recommended for students in all fields, but particularly for students majoring in communication studies and students who anticipate high levels of interaction with people from diverse cultures.

Hours: 54 Lecture.

#### **SPCH 240**

##### **Argumentation and Discussion (C-ID: COMM 190)**

**Units:** 3

**Prerequisite:** SPCH 140

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: SPCH 140 or SPCH 240.

This course provides students with expanded practice and theory in argumentation. Students further develop their argumentation knowledge and skills through debate participation, observation, and discussion. The course is particularly appropriate for students anticipating entering occupations that involve extensive argumentation and deliberation such as law, communication, negotiation, and any area where argumentation and debate occur frequently.

Hours: 54 Lecture.

## **SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS**

### **Division of Mathematics, Sciences, and Engineering**

#### **STEM 049A**

**How to be a Successful STEM Student (formerly MATH 049)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for students entering science, technology, engineering, or math (STEM) degree programs who plan to transfer to earn a bachelor's degree in their field. The course introduces students to effective STEM study skills, the importance of participating in internships, and appropriate extracurricular activities. Topics covered are designed to increase student success in STEM fields. Students are **expected** to be concurrently enrolled in at least one mathematics or science course in order to apply skills covered in this course.

Hours: 18 Lecture.

#### **STEM 049B**

##### **Becoming a STEM Researcher**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is designed for students intending to explore careers as researchers in science, technology, engineering, and mathematics (STEM) fields. Students learn how to apply and prepare themselves for undergraduate research opportunities by developing their resumes/curricula vitae, learning how to read research papers, and writing and presenting their research. Students also learn how to fund their research through research experiences for undergraduates (REU) and scholarships. Completion of these activities provides students with a competitive application for transfer and REUs. The course is offered on a pass/no pass basis.

Hours: 18 Lecture.

## **TECHNICAL EDUCATION**

### **Division of Career and Technical Education**

#### **TCED 044**

##### **OSHA 10 for the Workplace**

**Units:** 1

**It is advised that students be able to read college-level texts.**

This course is intended for the individual who needs an overview and/or certification of both the California and Federal OSHA Safety Regulations for the General Industry Workplace or Construction Workplace. This course will cover a detailed overview of the rules and regulations, and discuss fire protection and prevention, material handling/storage/use and disposal, hand and power tools, welding and cutting, electrical safety, and fall protection. Upon completion of this course, (as well as passing the final exam), the student will receive a

10-hour OSHA Training Certificate of Completion and/or Department of Labor card.

Hours: 18 Lecture.

#### **TCED 054**

##### **OSHA Workplace Safety II**

**Units:** 4

**It is advised that students be able to read college-level texts.**

This course is for the individual who needs an intermediate-level overview and/or the number of hours required for certification of both the California and Federal OSHA Safety Regulations for the General Industry and Construction Workplace. The course will cover a detailed overview of the rules and regulations, fire protection and prevention, material handling/storage and disposal, hand and power tools, welding and cutting, electrical safety, fall protection, scaffolds, excavations, concrete and masonry construction, steel erection, demolition, cranes/hoists/elevators and conveyors, lockout/tagout procedures, industrial hygiene, and emergency action plans. Powered industrial trucks will also be covered during the course, meeting the requirement for OSHA Standard 1910.178. Upon completion of this course (as well as passing the final exam and the powered industrial trucks operator safety training), the student will receive a 30-hour OSHA Training Certificate of Completion, which is good for life, and a powered industrial truck Certified Operator Card, which is good for 3 years.

Hours: 72 Lecture.

#### **TCED 090**

##### **Blueprint Reading for industry**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is for all students interested in pursuing certificates, degrees and careers related to manufacturing, welding, and drafting technologies. The course presents an introduction to the use of engineering documents or blueprints as used in industrial applications and focuses on interpreting and visualizing technical drawings in order to read and understand "The Language of Industry." Principles of reading drawings, specifications, projection principles, working drawings, details, assemblies, and pictorial representations are examined and discussed. The course is also helpful for apprentices and employees in all areas of technology including planning, purchasing, machine trades, welding/fabrication, future engineers, and inspection.

Hours: 27 Lecture. 27 Lab.

#### **TCED 101**

##### **Occupational Safety and Health for the 21st Century**

**Units:** 4



**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course provides an overview of the origins of occupational safety and health standards in the United States. The environmental and social justice issues that led to the creation of workplace safety and health standards will be discussed, a detailed overview of required occupational safety and health standards and regulations will be provided, and the impact of current issues in sustaining occupational safety and health on a 21st century workforce will be emphasized. Students will gain insights into the intersection of public safety, public health, and the building and environmental health standards which inform workplace safety policies and procedures. Course activities will include hands-on exercises to demonstrate hazard awareness; the correct use of tools, material handling, and safety equipment; and the development of emergency protocols and safety procedures. Students will have the opportunity at course completion to receive a Department of Labor (DOL) 30-hour Occupational Safety and Health Administration (OSHA) certification card provided all course requirements are met. The DOL card is often an initial certification for industrial occupational safety and health technicians, first line supervisors and managers, and construction and building inspectors.  
Hours: 72 Lecture.

**TCED 299**

**Directed Study in Technical Education**

**Units:** 1-3

**Enrollment requires a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at

regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## TESLA

### Division of Career and Technical Education

**TESL 101A**

**Tesla Student Automotive Technician (START) Program - A**

**Units:** 3

**Enrollment requires acceptance into the Tesla program.**

**Prerequisite:** AUTO 260

**Transfers to:** CSU

This course is the first in a series of four courses intended to teach entry-level students about electric vehicle (EV) applications and the technology used at Tesla, Inc. The course is suitable for students already working in the battery electric/hybrid vehicle and energy technology field and students who have completed a two-year automotive program. This first course covers the history of the Tesla company, a product and model overview, and an introduction to Tesla's service network, laptop diagnostic system, and service/parts access. Technical skills covered in this series include high-voltage tools and safety systems, diagnoses using software applications (e.g., *Fast Lane*), service repair basics, basic chassis, driver systems, and thermal and heating ventilation air conditions (HVAC) system services. Rio Hondo's Tesla START program provides students with skills needed for a successful career with Tesla, Inc. A formal application and interview process is required for acceptance into this course/program.  
Hours: 36 Lecture. 54 Lab.

**TESL 101B**

**Tesla Student Automotive Technician (START) Program - B**

**Units:** 3

**Prerequisite:** TESL 101A

**Transfers to:** CSU

This course is the second in a series of four courses intended to teach entry-level students about electric vehicle (EV) applications and the technology used at Tesla, Inc. The course is suitable for students already working in the battery electric/hybrid vehicle and energy technology field and students who have completed a two-year

automotive program. The course covers a product and model overview, ongoing product changes, computer firmware applications, and an introduction to the Tesla service network through service center shadowing. Laptop diagnostic systems, service/parts access, and factory repair times (FRT) skills are also introduced. Technical skills covered in this series include high-voltage interlock loop (HVIL) and driver safety systems, diagnoses using software applications (e.g., *Fast Lane*), customer interactions, alignment, chassis, sensor systems, heat pump basics, thermal and heating ventilation air conditioning (HVAC) system services, and drive motor basics. Rio Hondo's Tesla START program provides students with skills needed for a successful career with Tesla, Inc. A formal application and interview process is required for acceptance into this course/program.  
Hours: 36 Lecture. 54 Lab.

**TESL 101C**

**Tesla Student Automotive Technician (START) Program - C**

**Units:** 3

**Prerequisite:** TESL 101B

**Transfers to:** CSU

This course is the third in a series of four courses intended to improve student's skills about electric vehicle (EV) applications and the technology used at Tesla, Inc. The course covers service readiness, service center procedures, high voltage charging including equipment needed to charge the battery, introduction to the CAN language used in the vehicle and vehicle interface with charger unit, introduction to the penthouse controls and charging power control center, HV controller, and driver interaction with the vehicle commands, meter and scope introduced to the inverter and DC/DC power control diagnosis. New model Palladium features are also introduced as they are being used in several vehicles now.  
Hours: 36 Lecture. 54 Lab.

**TESL 101D**

**Tesla Student Automotive Technician (START) Program - D**

**Units:** 3

**Prerequisite:** TESL 101C

**Transfers to:** CSU

This course is the final one in a series of four courses intended to teach entry-level students about electric vehicle (EV) applications and the technology used at Tesla, Inc. The course is suitable for students already working in the battery electric/hybrid vehicle and energy technology field and students who have completed a two-year automotive program. This final course improves students' skills and speed in servicing Tesla electric vehicles. The course focuses on infotainment systems, voice commands, navigation, full driverless controls, vehicle reconditioning, advanced braking and suspension system skills with lift and

lowering controls, computer area networks (CAN), and vehicle remote access for diagnostics. Upon completing the course, students are granted an interview with Tesla, Inc. for placement at a permanent service center. Rio Hondo's Tesla START program provides students with skills needed for a successful career with Tesla, Inc. A formal application and interview process is required for acceptance into this course/program. Hours: 36 Lecture. 54 Lab.

## THEATRE

### Division of Arts and Cultural Programs

#### THTR 101

**Theatre Arts Appreciation (C-ID: THTR 111, THTR 112)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students seeking an overview of the entire field of theatre. The practice and theory of the following are explored: costume, set and lighting design, acting, directing, playwriting, criticism, play structure, theatre architecture, and producing. The instructor includes a brief historical overview and organizes at least one field trip to a professional theatre production. Hours: 54 Lecture.

#### THTR 105

**The History and Development of the Theatre (C-ID: THTR 113)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: THTR 105 or THTR 105H

This course is for students interested in the history of the theatre. It covers humanity's relationship with theatre from primitive tribal cultures through today's large musicals and blockbuster hits. The course explores the ways societal, religious, political, and social structures were presented and shared through the theatre; and investigates major plays, playwrights, and historic theatrical techniques through lectures, discussion, field trips, and films. Hours: 54 Lecture.

#### THTR 105H

**The History and Development of the Theatre Honors (C-ID: THTR 113)**

**Units: 3**

**It is advised that students be able to read college-level texts.**

**Prerequisite:** ENGL 101

**Transfers to:** UC/CSU - UC credit limit. Students will receive credit for only one of the following courses: THTR 105 or THTR 105H

This course is for students interested in the history of the theatre. It covers humanity's relationship with theatre from primitive tribal cultures through today's large musicals and blockbuster hits. The course explores the ways societal, religious, political, and social structures were presented and shared through the theatre; and investigates major plays, playwrights, and historic theatrical techniques through lectures, discussion, field trips, and films. This course is designed for students eligible for the Honors program. Hours: 54 Lecture.

#### THTR 110

**Principles of Acting I (C-ID: THTR 151)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students who are interested in acting in the areas of theatre, film, and television, whether as a profession or as a hobby. The class explores the theory, practice, and techniques of acting. Emphasis is placed on theatre games and exercises culminating in the presentation of scenes from contemporary dramatic literature. Hours: 36 Lecture. 54 Lab.

#### THTR 111

**Principles of Acting II (C-ID: THTR 152)**

**Units: 3**

**Prerequisite:** THTR 110

**Transfers to:** UC/CSU

This course is for students who want to continue to explore theories and techniques used in preparation for the interpretation of drama through acting, and to develop their skills past the beginner level. Emphasis will be placed on deepening an understanding of the acting process through exercises, character analysis, monologues, and scenes. Hours: 36 Lecture. 54 Lab.

#### THTR 112

**Acting for the Camera**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for students interested in acting techniques for film, television, and commercials. The class explores the styles, language, and technical demands of each medium. Topics include slating, voice, blocking, and memorizing as well as career advice (including photos and resumes, agents, unions, auditioning, and showcases). Students work with the

camera and review the results to develop their skills.

Hours: 36 Lecture. 54 Lab.

#### THTR 150

**Stagecraft I for Theatre, TV, and Film (C-ID: THTR 171)**

**Units: 3**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

The course is designed for the student who wishes to gain a basic understanding of the technical phases of scene production including construction, painting, rigging, placement and manipulation of stage scenery, lighting equipment, sound equipment, properties and wardrobe as well as the organization and management of stage activity and stagecraft terminology. The student will study the aesthetics and practical application principles of stage scenic, sound and lighting design. Students are assigned a specific crew responsibility that directly relates to a college theatre production. Hours: 18 Lecture. 108 Lab.

#### THTR 151

**Stagecraft II for Theatre, TV, and Film**

**Units: 3**

**Prerequisite:** THTR 150

**Transfers to:** UC/CSU

This course is designed for the student who wishes to expand the skills and concepts acquired in Stagecraft I for Theatre, TV, and Film (THTR 150). Topics such as the technical phases of scene production including construction, painting, rigging, placement and manipulation of stage scenery, lighting equipment, sound equipment, properties and wardrobe as well as the organization and management of stage activity and stagecraft terminology are revisited and expanded upon. The student will additionally do extensive study of the aesthetics and practical application principles of set design, sound design, and lighting design. Students are assigned a specific crew duty such as light board operator, sound operator or stage crew lead with added responsibility that directly relates to a college theatre production. Hours: 18 Lecture. 108 Lab.

#### THTR 152

**Stagecraft III for Theatre, TV, and Film**

**Units: 3**

**Prerequisite:** THTR 151

**Transfers to:** UC/CSU

This course is designed for the student who wishes to further expand the skills and concepts acquired in Stagecraft I and II for Theatre, TV, and Film (THTR 150 and 151). Technical phases of scene production including construction, painting, rigging, placement and manipulation of stage scenery, lighting equipment, sound equipment,



properties and wardrobe as well as the organization and management of stage activity and stagecraft are examined in greater depth. The student will complete an in depth study of the theatrical design process by designing scenery, properties, lighting and or sound for Rio Hondo College theatrical productions. Students are assigned a specific crew lead with supervisory responsibility that directly relates to a college theatre production. Hours: 18 Lecture. 108 Lab.

**THTR 153**  
**Lighting Design and Production for Theatre, TV, and Film (C-ID: THTR 173)**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students who want to gain an understanding and appreciation of the roles light and lighting design play in a theatrical production. Students gain understanding in lighting design theory, function, and aesthetics. Students learn to hang, focus, color, cable, and strike conventional and automated lighting fixtures, as well as to identify and select appropriate types of lighting fixtures, cables, control, and power distribution equipment for a given purpose. Electrical and operational safety receive special emphasis. Students who complete the course successfully are able to operate lighting consoles proficiently. Hours: 18 Lecture. 108 Lab.

**THTR 154**  
**Sound Design and Production for Theatre, TV, and Film**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students who want to gain an understanding and appreciation of the roles sound and sound design play in a theatrical production. Students gain an understanding in sound design, function, and aesthetics. Students learn to rig, cable, troubleshoot, strike, and maintain analog and digital audio equipment, as well as to identify and select appropriate types of microphones, cables, speakers, and sound amplification equipment for a given purpose. Electrical and operational safety receive special emphasis. Students who complete the course successfully are able to operate audio mixing consoles proficiently. Hours: 18 Lecture. 108 Lab.

**THTR 159**  
**Stage Crew Activity (C-ID: THTR 192)**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students who want to gain practical, hands-on, technical experience working backstage. Students will gain experience working as part of a stage crew supporting public performances of theatrical, musical, or dance productions. This course may be taken once and repeated three times for credit.

Hours: 54-162 Lab.

**THTR 160**  
**Introductory Playwriting Screenwriting**

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is designed for the student interested in the art of writing for theatre or film. It will include writing exercises, theatre field trips and a final staged reading of finished scripts. Students will complete a one-act or 10-minute play which will be considered for production the following semester.

Hours: 36 Lecture. 54 Lab.

**THTR 161**  
**Playwriting/Screenwriting for Production**

**Units:** 3

**Prerequisite:** THTR 160

**Transfers to:** CSU

This course is designed for the student who wants to work on their playwriting/screenwriting craft with an eye to the professional market. Students will write, rewrite and polish works written with the intention of production. Students will read plays, screenplays, and teleplays that have been produced recently. Students will realistically appraise the marketability of their script through staged readings by student actors for an audience.

Hours: 36 Lecture. 54 Lab.

**THTR 164**  
**Theatre Production Lab I**

**Units:** 1-2

**It is advised that students be able to read college-level texts.**

**Transfers to:** CSU

This class is intended for students interested in exploring a career in entertainment production. The course provides a hands-on introduction to all aspects of entertainment production including scenery, lighting, audio, costumes and properties. Students will learn the fundamentals of constructing, painting and rigging scenery, hanging and focusing lighting equipment, setting up audio systems and/or building costumes or props for the performing arts programs at Rio Hondo College. Hours: 54-108 Lab.

**THTR 165**  
**Theatre Production Lab II**

**Units:** 1-2

**Prerequisite:** THTR 164

**Transfers to:** CSU

This class is intended for students interested in careers in entertainment production. The course builds upon the basic skills acquired in THTR 164, with more sophisticated tasks and greater responsibilities in scenic construction, painting and rigging, stage lighting operations, stage audio systems and/or costume shop assignments for the performing arts programs at Rio Hondo College.

Hours: 54-108 Lab.

**THTR 166**  
**Theatre Production Lab III**

**Units:** 1-2

**It is advised that students have a knowledge of elementary algebra concepts.**

**Prerequisite:** THTR 165

**Transfers to:** CSU

This class is intended for students pursuing careers in entertainment production. The course builds upon the skills acquired in THTR 165, providing leadership roles in scenic construction, painting and rigging, stage lighting operations, stage audio systems and/or costume shop assignments for the performing arts programs at Rio Hondo College.

Hours: 54-108 Lab.

**THTR 170**  
**Theatre Rehearsal & Performance (C-ID: THTR 191)**

**Units:** 3

**Enrollment Limitations: Acting students must audition/interview and Technical/Support students must interview prior to participating in the course.**

**Advisory:** THTR 110

**Transfers to:** UC/CSU

This course is for the student who wants to participate in a stage production that is part of the American College Theatre Festival (ACTF) competition. Students' performances will be evaluated by judges representing ACTF during public performances at Rio Hondo, and some will be chosen to compete at the regional and national festivals in the areas of acting, writing, stage managing, directing, and stage design. Students are provided an opportunity to be part of a theatre company in the organization of full-length and/or one-act plays under the guidance of a faculty director. This course may be repeated three times for credit.

Hours: 18 Lecture. 108 Lab.

**THTR 171**  
**Musical Theatre Rehearsal and Performance (C-ID: THTR 191)**

**Units:** 3

**Enrollment Limitations: Performing students must audition/interview and Technical/Support students must interview prior to participating in the**

**course. Solve simple word problems involving whole numbers, fractions, decimals, integers, percents, and proportions.**

**Transfers to:** UC/CSU

This course is for students who want to be involved in the creation and presentation of a musical production that is part of the American College Theatre Festival (ACTF) competition. The course introduces students to the various aspects that make up a musical, and based upon auditions and interviews, students can take part in performing music, acting, technical theatre work, designing, dancing, or stage managing under the supervision of a faculty director and other theatre, music, and dance professionals. Students will be evaluated by judges representing ACTF during public performances at Rio Hondo College, and some will be chosen to compete at the regional and national festivals in the areas of acting, singing, dancing, stage managing, directing, and/or stage design. This course may be taken once and repeated three times for credit. Hours: 18 Lecture. 108 Lab.

**THTR 172**  
**Performing and Preparing the Comedy**

**Units:** 3

**It is advised that students be able to engage in written composition at the early college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students who want to study theatre productions as they are created and expressed through comedic drama. The class will explore comedy genres, acting techniques, physical communication, and comic objectives. Students are part of a full-length or one-act production (or a combination of both), and may participate in a variety of activities including acting, directing, production, and management; auditions will determine the specific assignment. Hours: 18 Lecture. 108 Lab.

**THTR 173**  
**Rehearsal and Performance: The Style Play**

**Units:** 3

**It is advised that students be able to engage in written composition at the early college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is for students who want to learn how to use performance styles and acting techniques in the preparation and performance of a play with a specific style of theatricality. These plays could include the styles of comedy of manners, melodrama, surrealism, realism, expressionism, futurism and more. Students will be involved in rehearsing a full-length or short play and then presenting it to a public audience. Students may participate in a variety of activities including acting, directing,

management, dramaturg, etc. Auditions and/or interview will determine most of the specific assignments. Hours: 18 Lecture. 108 Lab.

**THTR 174**  
**Costume Design and Production for Theatre, TV, and Film (C-ID: THTR 174)**

**Units:** 3

**It is advised that students be able to engage in written composition at the early college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students who seek to gain an understanding and appreciation of costume techniques used for the theatre and other entertainment industries. Students gain the practical knowledge and experience necessary to work in a costume shop, including an understanding of costume history; basic costume design including sketching; basic costume construction including alteration and sewing; costume design tools, materials, fabrics, textiles, and crafts; costume sourcing practices; and backstage costume preparation and practices for productions. Students identify period costumes (garments and accessories), analyze the effectiveness of costumes in a production, draft a pattern in order to sew/construct a garment, and source costumes needed for a production through vendors. Hours: 36 Lecture. 54 Lab.

**THTR 175**  
**The Original Play in Production**

**Units:** 3

**Advisory:** THTR 110

**Transfers to:** UC/CSU

This course is designed for students who want to take part in the creation of a new play. Students learn play structure, character development, and collaborative creation; and are involved in acting, directing, writing, and/or crew in the creation of a full-length, one-act, or devised play. Auditions will determine specific assignments. Hours: 18 Lecture. 108 Lab.

**THTR 176**  
**Makeup Design and Production for Theatre, TV, and Film (C-ID: THTR 175)**

**Units:** 3

**It is advised that students be able to engage in written composition at the early college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students who seek to gain an understanding and appreciation of makeup techniques used for the theatre and other entertainment industries. Students gain the practical knowledge and experience necessary to apply theatrical makeup; an understanding of makeup history; basic makeup design, including sketching; basic application, including wigs and facial hair; makeup design tools, materials, and crafts; makeup

sourcing practices; and dressing room makeup preparation and practices for productions. Students identify period makeup styles and analyze the effectiveness of character makeup in a production, and design, create, and source makeup supplies needed for a production. Hours: 36 Lecture. 54 Lab.

**THTR 180**  
**Touring Theatre Local I**

**Units:** 2-4

**It is advised that students be able to engage in written composition at the early college level and read college-level texts.**

**Transfers to:** UC/CSU

This course is designed for students who want to gain a basic understanding of the rigorous requirements of a touring theatre production, including acting; lighting; and maintaining props, costumes and sets. Students are assigned a specific responsibility that relates directly to a production that tours locally. Hours: 18-36 Lecture. 54-108 Lab.

**THTR 181**  
**Touring Theatre Local II**

**Units:** 2-4

**Prerequisite:** THTR 180

**Transfers to:** UC/CSU

This course is designed for students who want to build upon the skills and concepts acquired in THTR 180 related to the rigorous requirements of touring a theatre production, including acting, directing, scenic design, management, lighting, construction, and maintaining props, costumes, and sets. Students are assigned a specific responsibility that directly relates to a production that tours locally. Hours: 18-36 Lecture. 54-108 Lab.

**THTR 186**  
**Touring Theatre: The Kennedy Center American College Theatre Festival**

**Units:** 2-4

**Prerequisite:** THTR 170 or THTR 171 or THTR 172 or THTR 173 or THTR 175

**Transfers to:** UC/CSU

This course is intended for students who want to compete for theatre scholarships and recognition, and is open to students who have been nominated for an Irene Ryan scholarship, partner, production, or any other award for the Kennedy Center American College Theater Festival (KCACTF). Students prepare for competition, compete in their nominated area, see invited plays, audition for plays, and attend a variety of workshops under the supervision of the instructor. This course may be repeated 3 times for credit. A 5-day field trip in February is usually required. Hours: 18-36 Lecture. 54-108 Lab.

**THTR 210**  
**Acting Workshop: Devising**

**Units:** 3

**Advisory:** THTR 110

**Transfers to:** UC/CSU

This class is for students who want to create their own work, whether they are actors or non-actors. Students study the history of devising (also known as collective creation); learn techniques of devising; and create, research, develop, rehearse, and present a devised project. Some knowledge of traditional theatre is helpful for this class. Some semesters a public performance is presented.  
Hours: 36 Lecture. 54 Lab.

#### **THTR 215**

##### **Acting: Audition and Cold Reading**

**Units:** 3

**Prerequisite:** THTR 110

**Transfers to:** CSU

This course is designed for students who want to be prepared for academic, community, or professional auditions. Students work on selecting and presenting material, personal appearance, cold readings, and resumes. By the end of the semester, students have a variety of audition pieces ready.  
Hours: 54 Lecture.

#### **THTR 230**

##### **Principles of Directing**

**Units:** 3

**Prerequisite:** THTR 110

**Transfers to:** UC/CSU

This course is for students who want to develop their ability to work with actors, interpret drama, and stage plays. It will cover the history and the techniques of the stage director. Emphasis is placed on class activities such as exercises in staging techniques and directing short scenes. Career opportunities, stage management and assistant directing are also covered. This course is a requirement for the Theatre Arts AS Degree.  
Hours: 36 Lecture. 54 Lab.

#### **THTR 231**

##### **Principles of Directing II**

**Units:** 3

**Prerequisite:** THTR 230

**Transfers to:** UC/CSU

This course is designed for students majoring in theatre arts, and is a continuation of Theatre Arts 230. Students direct a ten-minute play performed by other students; and techniques in casting, rehearsing, picturization, characterization, tempo, and climax in play direction are covered.  
Hours: 36 Lecture. 54 Lab.

#### **THTR 290**

##### **CWE/Internship in Theatre Arts related fields**

**Units:** 1-4

**It is advised that students be able to engage in written composition at the early college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in business, industrial, non-profit, studio, community and professional theatre organizations under supervision of a college

instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of theatre arts and have completed or enrolled in the appropriate coursework. Instructor approval is required to remain in the class. "Contact the CWE office regarding re-enrollment procedures".

**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

Hours: 3 Lecture. 60-300 Lab.

#### **THTR 299**

##### **Directed Study: Theatre**

**Units:** 1-3

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor. Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students will be expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take directed study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.  
Hours: 54-162 Lab.

## **TELEVISION**

### **Division of Communications and Languages**

#### **TV 135**

##### **Digital Filmmaking I: Introduction**

457

**Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** UC/CSU

This is an introductory course in film production techniques for narrative, documentary, and music video, and may be of interest to students interested in both film and television production. Topics include creating a story treatment, screenwriting, storyboarding, camera operation, lighting, introductory production sound, and non-linear editing. Students work in teams and crew all positions, including writer, producer, director, assistant director, cinematographer, boom operator, and editor. Emphasis is placed on defining the content, structure, and style of the production. Students implement these skills with projects in documentary, music video, and narrative filmmaking traditions.  
Hours: 36 Lecture. 54 Lab.

#### **TV 136**

##### **Digital Filmmaking II: Intermediate**

**Units:** 3

**Prerequisite:** TV 135

**Transfers to:** UC/CSU

This intermediate course in film production techniques for narrative, music video, and branded content may be of interest to students interested in both film and television production. Topics include screenwriting, storyboarding, camera operation, lighting, production sound, and non-linear editing. Students work in teams and crew all positions, including writer, producer, director, first assistant director, cinematographer, camera assistant, gaffer, grip, boom operator, production sound mixer, and editor. The course incorporates career pathways in the contemporary media landscape, including branded content, social media, and new media. Emphasis is placed on personal storytelling, crew collaboration, professionalism, and building a professional resume and portfolio.  
Hours: 36 Lecture. 54 Lab.

## **VOCATIONAL NURSING**

### **Division of Health Science and Nursing**

#### **VN 061**

##### **Basic Fundamentals of Nursing**

**Units:** 3.5

**Prerequisite:** HS 060, PSY 101

**Corequisite:** VN 061L

This course is designed for the entry level vocational nursing student with a focus on the nursing process and its application in medical/surgical settings. The role of the Licensed Vocational Nurse in providing care for patients in a variety of situations is discussed. This course is open to students enrolled in

the Vocational Nursing program and is required for Vocational Nursing licensure.  
Hours: 63 Lecture.

**VN 061L**  
**Basic Fundamentals of Nursing Laboratory**

**Units:** 5  
**Prerequisite:** HS 060 and PSY 101  
**Corequisite:** VN 061

This course is designed to provide the entry level vocational nursing student with the opportunity to learn basic nursing skills in the Health Science Skills laboratory and the clinical setting within the context of the nursing process. The student will apply the role of the Licensed Vocational Nurse in the clinical medical surgical setting. This course is open to students enrolled in the Vocational Nursing Program and is required for Vocational Nursing licensure. Offered on a pass/no pass basis.  
Hours: 270 Lab.

**VN 071L**  
**Introduction to Medical-Surgical Nursing Lab**

**Units:** 3.5  
**Prerequisite:** VN 061 and VN 061L  
This course will provide the student with the opportunity to use the nursing process at a beginning level to care for patients in the clinical setting. The student will develop competency in data collection and basic nursing skills. Special emphasis will be placed on the care of the patient with problems of the endocrine, musculo-skeletal and integumentary systems, as well as the older adult. This course is open to students enrolled in the Vocational Nursing Program and is required for Vocational Nursing licensure. Offered on a pass/no pass basis.  
Hours: 189 Lab.

**VN 072L**  
**Intermediate Medical-Surgical Nursing Lab**

**Units:** 3.5  
**Prerequisite:** VN 071L, VN 074 and VN 075

**Corequisite:** VN 073  
This course will provide the student with the opportunity to use the nursing process with increasing independence in providing care for patients in the clinical setting. The student will increase competency in data collection and nursing skills. Special emphasis will be placed on the care of the patient with problems of the cardiovascular, respiratory, gastrointestinal and renal systems. This course is open to students enrolled in the Vocational Nursing program and is required for Vocational Nursing licensure. Offered on a pass/no pass basis.  
Hours: 189 Lab.

**VN 073**  
**Basic Pharmacology**

**Units:** 2

**Prerequisite:** VN 061 and VN 061L  
**Advisory:** HS 045

This is an introductory course of basic techniques and computations used in the administration of medications. Completion of the course prepares the student to safely administer medications to patients under the supervision of the nursing instructor. This course is open to students enrolled in the Vocational Nursing Program and is required for the Vocational Nursing Licensure.  
Hours: 36 Lecture.

**VN 074**  
**Nursing Care of Patients with Integumentary/Orthopedic Problems and Concepts of Gerontologic Nursing**

**Units:** 2.5  
**Prerequisite:** VN 061 and VN 061L  
Using the medical model, the nursing process, and Erikson's psychosocial theory of human development, this course is designed to prepare the vocational nursing student with the foundational knowledge necessary to care for the aging patient, and patients with disorders of the musculoskeletal and integumentary systems. This course is open to students enrolled in the Vocational Nursing Program.  
Hours: 45 Lecture.

**VN 075**  
**Nursing Care of Patients with Endocrine Problems**

**Units:** 1  
**Prerequisite:** VN 061 and VN 061L  
This course focuses on the use of the nursing process in caring for individuals with disturbances of the pancreas, thyroid, parathyroid, adrenal and pituitary glands. The pathophysiology, assessment data, nursing problems, and medical and nursing interventions for patients with endocrine problems are discussed. This course is open to students enrolled in the Vocational Nursing program and is required for Vocational Nursing licensure.  
Hours: 18 Lecture.

**VN 076**  
**Nursing Care of Patients with Renal, Urinary, and Gastrointestinal Problems**

**Units:** 3.5  
**Prerequisite:** VN 071L, VN 074 and VN 075

**Corequisite:** VN 073  
This course focuses on the application of the nursing process in medical surgical situations for the patient with gastrointestinal and renal problems. Emphasis is placed on the application of principles of nutrition in caring for patients with gastrointestinal and renal dysfunction. This course is open to students enrolled in the Vocational Nursing Program and is required for Vocational Nurse licensure.  
Hours: 63 Lecture.

**VN 077**

**Nursing Care of Patients with Cardiovascular and Respiratory Problems**

**Units:** 3  
**Prerequisite:** VN 071L, VN 074 and VN 075

**Corequisite:** VN 073  
Using the medical model, the nursing process, and Erickson's psychosocial theory of human development, this course is designed to prepare the vocational nursing student with the foundational knowledge necessary to care for patients with cardiovascular and respiratory disorders. This course is open to students enrolled in the Vocational Nursing Program.  
Hours: 54 Lecture.

**VN 081L**  
**Maternal and Pediatric Nursing Laboratory**

**Units:** 2.5  
**Prerequisite:** VN 072L, VN 073, VN 074, VN 075, VN 076 and VN 077  
**Corequisite:** VN 084

This course will provide the student with the opportunity to use the nursing process with increasing independence in providing care for patients in the clinical setting. The student will increase competency in data collection and nursing skills. Special emphasis will be placed on the care of the pediatric, antepartum, intrapartum, postpartum and newborn patient. This course is open to students enrolled in the Vocational Nursing Program and is required for Vocational Nurse licensure. Offered on a pass/no pass basis.  
Hours: 135 Lab.

**VN 082L**  
**Advanced Medical/Surgical Laboratory**

**Units:** 3.5  
**Prerequisite:** VN 081L and VN 084  
This course will provide the student with the opportunity to apply learned leadership skills within the Vocational Nurse scope of practice. The student will utilize the nursing process with increasing independence and accountability in providing care for patients in the clinical setting. Special emphasis will be placed on the care of medical/surgical patients with complex problems, neurological system disorders and oncological problems. The student will have the opportunity to further develop the necessary communication skills needed to provide care for patients with mental health problems. This course is open to students enrolled in the Vocational Nursing program and is required for Vocational Nurse licensure. This course is offered on a pass/ no pass basis.  
Hours: 189 Lab.

**VN 083**  
**Applied Pharmacology**

**Units:** 2  
**Prerequisite:** VN 073  
Using the medical model, the nursing process, and Erikson's psychosocial theory of human development, this



course is designed to prepare the vocational nursing student with the advanced knowledge necessary to safely administer medications to patients and accurately assess the patient response to medication therapy under the supervision of the nursing instructor. This course is open to students enrolled in the Vocational Nursing Program.  
Hours: 36 Lecture.

**VN 084**  
**Maternal and Pediatric Nursing**  
**Units: 4**

**Prerequisite:** VN 072L, VN 073, VN 074, VN 075, VN 076 and VN 077  
**Corequisite:** VN 081L

This course focuses on growth and development, with concomitant problems traced from the newborn through infancy, toddler, preschool, school-age, and adolescent stages. Emphasis is placed upon nursing care appropriate to the developmental stage of the child, and pediatric problems including biological and psychological problems affecting both healthy and hospitalized children and families. This course is open to students enrolled in the Vocational Nursing Program, and is required for the Vocational Nursing License.  
Hours: 72 Lecture.

**VN 085**  
**Leadership & Supervision for the Vocational Nurse**  
**Units: 0.5**

**Prerequisite:** VN 072L, VN 073, VN 074, VN 075, VN 076 and VN 077

This course introduces principles of leadership, group dynamics, delegation, and effective communication in working relationships for the vocational nurse. Emphasis is placed on delegating work to and supervising nursing assistants, other vocational nurses, and unlicensed assistive personnel. The course is open to students enrolled in the Vocational Nursing Program and is required for the Vocational Nurse license.  
Hours: 9 Lecture.

**VN 086**  
**Mental Health and Neurological Nursing Problems**  
**Units: 3**

**Prerequisite:** VN 081L and VN 084  
This course presents mental health concepts that relate to emotional issues influencing a patient's well-being and problems related to the neurological system. Emphasis will be placed on the nursing process, as it relates to problems of neurological function and mental health. This course is open to those students enrolled in the Vocational Nursing Program and is required for Vocational Nursing licensure.  
Hours: 54 Lecture.

**VN 087**  
**Nursing Care of Patients with Cancer**  
**Units: 1**

**Prerequisite:** VN 072L, VN 073, VN 074, VN 075, VN 076, VN 077 and VN 081L and VN 084

This course focuses on the application of the nursing process in medical-surgical situations for the patient with cancer diagnoses of various body systems and immune deficiency disorders. Emphasis is placed on the physical, psychological, and psychosocial effects of diagnosis, medical therapy, and nursing intervention with the application of principles of nutrition, pharmacokinetics, and palliative care in caring for patients with cancer. The course is open to students enrolled in the Vocational Nursing Program and is required for the Vocational Nurse licensure.  
Hours: 18 Lecture.

## VOCABULARY

### Division of Communications and Languages

**VOCB 101**

**Vocabulary and Etymology**

**Units: 3**

**Enrollment requires appropriate placement (based on high school GPA and/or other measures) or eligibility for college composition and the ability to comprehend textbook reading written at the pre-collegiate level.**

**Transfers to:** CSU

This course offers students an opportunity to develop a college-level vocabulary. The course emphasizes an understanding of the etymology, definition, and usage of words so that students gain a comprehensive understanding of the meanings of words and how they are used. Additionally, students study general and specialized terms used in courses across the curriculum. In order to internalize word meanings successfully, students work in individual, small group, and whole class settings.  
Hours: 54 Lecture.

## WELDING

### Division of Career and Technical Education

**WELD 040**

**Introduction to Welding Processes**

**Units: 2**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This is an introductory class designed to familiarize the student with several welding processes that are currently used in the welding and metal fabrication industry. This course offers

an overview and basic introduction to the theory and practice of a variety of welding and metal cutting methods. This course will emphasize safety, theory, procedure, and practical skill development.  
Hours: 18 Lecture. 54 Lab.

**WELD 041**

**Elementary Metallurgy**

**Units: 2**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This is an elementary course in the basic principles of metallurgy. The course is designed for welding majors, but is suitable for all students interested in materials, manufacturing and design. Topics include steel and alloy production, properties of metals, heat treatment, and the effects of heat on production.  
Hours: 36 Lecture.

**WELD 045**

**Basic Electric Arc Welding**

**Units: 2**

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course is intended for the student who wants to progress to a basic level of welding processes and further their skills in manual and semi-automatic electric arc welding methods and techniques. This course emphasizes skills in Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). The course also focuses on safety, theory, characteristics and settings for power supplies and welding units, electric current settings, electrode identification and selection, welding positions, and welding of ferrous and non-ferrous metals. Special emphasis will be placed on developing proficiency and speed for high volume production applications.  
Hours: 18 Lecture. 54 Lab.

**WELD 050**

**Semi-Automatic Welding Process**

**Units: 4**

**Prerequisite:** WELD 040

This course is intended for students who want to progress to an intermediate level of welding processes and further their skills in wire-fed, semi-automatic welding methods and techniques. This course emphasizes skills in gas metal arc welding (GMAW) and flux cored arc welding (FCAW). The course also focuses on safety, theory, characteristics and settings for power supplies and wire feeding units, electric current settings, electrode identification and selection, welding positions, and welding of ferrous and non-ferrous metals. Special emphasis is placed on developing proficiency and speed for high-volume production applications.  
Hours: 36 Lecture. 108 Lab.

**WELD 055**  
**Manual Electric Arc Welding Processes**

**Units:** 4

**Prerequisite:** WELD 040

This course is intended for the student who wants to progress to an intermediate level of welding processes and further their skills in manual electric arc welding methods and techniques.

This course emphasizes skills in shielded metal arc welding (SMAW) and gas tungsten arc welding (GTAW). The course also focuses on safety, theory, characteristics and settings for power supplies and welding units, electric current settings, electrode identification and selection, welding positions, and welding of ferrous and non-ferrous metals. Special emphasis will be placed on developing proficiency and speed for high volume production applications.

Hours: 36 Lecture. 108 Lab.

**WELD 060**  
**Production Welding Techniques**

**Units:** 4

**Advisory:** WELD 045

This is an intermediate level course focused on welding techniques used in high-volume production manufacturing environments. Students gain proficiency using pulsed-arc & non-pulsed-arc GMAW and GTAW processes on carbon steel, stainless steel, and aluminum materials. Correct use of welding fixtures, positioners, and other auxiliary equipment are covered. Emphasis is placed on using shop safety in addition to developing proper working procedures.

Hours: 36 Lecture. 108 Lab.

**WELD 065**  
**Introduction to Gas Tungsten Arc Welding**

**Units:** 4

**Prerequisite:** WELD 040

This course introduces the principles and practices of gas tungsten arc welding (GTAW), including setup/use of GTAW equipment and safe use of tools and equipment. Instruction and practice is provided for gaining proficiency welding carbon steel, stainless steel, and aluminum weld joints in the flat and horizontal positions. Fundamentals of the GTAW process, correct consumables, equipment, and pre-weld preparation will be covered.

Hours: 36 Lecture. 108 Lab.

**WELD 070**  
**Advanced Gas Tungsten Arc Welding**

**Units:** 4

**Prerequisite:** WELD 065

This course provides further advancement of knowledge and skills in gas tungsten arc welding (GTAW). Emphasis is placed on developing proficiency in welding carbon steel, stainless steel, and aluminum weld joints in the vertical and overhead position. This course exposes students to using positioners, welding fixtures, and tooling commonly used in the

workplace. Preparation for welding certification is covered.

Hours: 36 Lecture. 108 Lab.

**WELD 075**  
**Certification Welding I**

**Units:** 4

**Prerequisite:** WELD 055

This course is an advanced course offering specialized instruction necessary for passing the City of Los Angeles Department of Building & Safety (LADBS) certified welder performance examinations. Emphasis will be placed on building skills in Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), and Gas Metal Arc Welding (GMAW) as applicable to acquire LADBS certified welder classifications in structural steel, light gage steel, and structural aluminum. Safety, welding codes, welding procedures and techniques, inspection requirements, nondestructive testing, and destructive testing will be covered. This course may be repeated once for certification or licensure standards, only by permit from the division.

Hours: 36 Lecture. 108 Lab.

**WELD 080**  
**Certification Welding II**

**Units:** 3

**Prerequisite:** WELD 065

This course is intended for the student who wants to progress to an advanced level of welding processes and certification. This course offers specialized training and instruction which are necessary to take and pass the written test portion of the City of Los Angeles Department of Building & Safety (LADBS) Certified Welder Examination. This course emphasizes specific skills in Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), and Gas Metal Arc Welding (GMAW) as it applies to Certification in Structural Steel, Light Gage Steel, and Structural Aluminum. The course also focuses on safety, welding codes, test preparation, procedures, and destructive testing. Special emphasis will be placed on developing proficiency in order to successfully pass the LADBS exam. This course may be repeated once for certification or licensure standards, only by permit from the division.

Hours: 54 Lecture.

**WELD 081**  
**Pipe Welding - Level I**

**Units:** 4

**Prerequisite:** WELD 075

This course is the first in a series of courses for welding of pipe using the shielded metal arc welding (SMAW) process. The course will cover safety procedures, electrode selection, weld joint preparation, and weld quality. Emphasis will be placed on student proficiency in welding pipe in the 1G, 2G and 5G positions in accordance with American Petroleum Institute API-1104:

Standard for Welding Pipelines and Related Facilities.

Hours: 36 Lecture. 108 Lab.

**WELD 082**  
**Pipe Layout and Fabrication**

**Units:** 4

**Prerequisite:** WELD 075

**Advisory:** TCED 070

This course examines the fundamental concepts used in the fabrication of carbon steel pipe connections and fittings. Emphasis will be placed on constructing lateral, sleeve, and branch pipe connections commonly used in the piping industry. Use of manual and mechanized thermal cutting equipment is covered. Related math calculations and cutting techniques will be utilized to prepare students for entry into a pipe fitting related field.

Hours: 36 Lecture. 108 Lab.

**WELD 083**  
**Pipe Welding II**

**Units:** 4

**Prerequisite:** WELD 081

This course is second in a series of courses for welding of carbon steel pipe using the shielded metal arc welding (SMAW) and gas tungsten arc welding (GTAW) processes. The course will cover safety procedures, electrode selection, weld joint preparation, and weld quality. Emphasis will be placed on achieving proficiency in welding pipe in the 1G, 2G and 6G positions in accordance with American Society of Mechanical Engineering (ASME) pressure vessel codes.

Hours: 36 Lecture. 108 Lab.

**WELD 084**  
**Pipe Welding - Level III**

**Units:** 4

**Prerequisite:** WELD 083

This course is an advanced course to provide further development in pipe welding skills leading to certification. The course will survey the theory and application of welding carbon steel pipe using gas metal arc welding (GMAW) in the 2G, 5G, and 6G positions using downhill and uphill progression. Emphasis will be placed on the development advanced skills welding pipe in accordance with the American Society of Mechanical Engineers (ASME) and the American Welding Society (AWS) codes.

Hours: 36 Lecture. 108 Lab.

**WELD 085**  
**Introduction to Metal Fabrication**

**Units:** 3

**Prerequisite:** WELD 040, WELD 050, WELD 055, WELD 065

This is an introductory course that examines the theory and application aspects of metal fabrication. It covers the safe and effective use of metal fabricating equipment and tools to complete assigned projects. This course also includes hands-on instruction and practice in cutting, grinding, drilling, rolling, bending and welding tasks in



accordance with supplied shop drawings.

Hours: 27 Lecture. 81 Lab.

#### **WELD 299**

##### **Directed Study in Welding Technology**

**Units:** 1-3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

Independent Study/Directed Study is intended for students who have the ability to assume responsibility for independent work and to prepare written or oral reports and/ or appropriate projects. To enroll in an independent study/directed study course, students must possess a 2.5 overall grade point average, a 3.0 grade point average in the discipline of study being requested, or receive an exception from the instructor.

Independent Studies/Directed Studies may be developed from any topic arising from or related to a course of study that will result in developing depth and breadth in that subject area. Students are expected to meet on a regular basis with their faculty sponsor and submit a final report or project, and student progress shall be evaluated at regular intervals. Academic standards for Independent Studies/Directed Studies shall be the same as those for other courses. Units are awarded in accordance to Title V regulations, with one unit of credit awarded for 54 hours of Directed Studies, six (6) hours of which must be with an instructor. The instructor is responsible for monitoring student progress through the semester. Students may take Directed Study courses for a maximum of three (3) units within a discipline, and may not accumulate more than a total of nine (9) units college wide.

Hours: 6-18 Lecture. 48-144 Lab.

## **WILDLAND FIRE TECHNOLOGY**

### **Division of Public Safety**

#### **WFT 040**

##### **Firefighter Type 2 (S130)**

**Units:** 2

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course provides students seeking wildland training and certification at the Type 2 level. This course provides instruction in wildland fire behavior, hazard recognition, human factors in high risk environments, basic incident command system, radio operations, and documentation. Classroom and field exercises prepare students for a position as a Firefighter Type 2 (FF2). This course meets the National Wildfire

Coordinating Group's (NWCG) requirements for an S-130 wildfire training course.

Hours: 27 Lecture. 27 Lab.

#### **WFT 041**

##### **Firefighter Type 1 (S131)**

**Units:** 2

**Prerequisite:** WFT 040

This course prepares interested students with additional leadership and skills sets needed to make leadership and tactical decisions on wildland fire incidents. This course provides instruction in the Risk Management Process, fireline reference materials, portable fire pump operations, staging area standard operating procedures and practices. Classroom and field exercises will prepare the student for a position as a Firefighter Type 1 (FF1) as recognized by the National Wildfire Coordinating Group's (NWCG).

Hours: 27 Lecture. 27 Lab.

#### **WFT 042**

##### **Portable Pumps and Water Use (S211)**

**Units:** 1

**It is advised that students be able to engage written composition at a college level and read college-level texts.**

This course provides students with practical knowledge and skills in the use of portable fire pumps and related equipment during wildland fire incidents. The course consists of three skill areas: supply, delivery, and application of water. Students are required to demonstrate their knowledge of correct water use, basic hydraulics, and equipment care. Field exercises, demonstrations, and evaluations cover set up, operation, and maintenance of pump equipment. This course meets the National Wildfire Coordinating Group's (NWCG) requirements for an S-211 wildfire training course.

Hours: 9 Lecture. 27 Lab.

#### **WFT 043**

##### **Wildland Fire Chain Saws (S212)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course provides the basic knowledge, understanding, function, maintenance, and use of internal combustion engine (ICE) powered chain saws. Students also learn about the tactical use of wildland fire chainsaws. Field exercises support entry level training for firefighters with little or no previous experience with operating a chain saw and provide students with hands-on cutting experience in surroundings similar to fireline situations. This is an entry-level course for students interested in wildland fire suppression, and is highly recommended prior to enrolling in the intermediate-level wildland fire-related course. This course meets the National

Wildfire Coordinating Group's (NWCG) requirements for an S-212 wildfire training course.

Hours: 9 Lecture. 27 Lab.

#### **WFT 044**

##### **Introduction to ICS (I100)**

**Units:** 1

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course introduces students to the Incident Command System (ICS-100). The course also provides a basic introduction to wildland fire management (the S-110 wildland fire training course) and a basic working knowledge of human performance concepts in dynamic and high risk environments (the L-180 wildland fire training course). This course meets the National Incident Management System (NIMS) and National Wildfire Coordinating Group (NWCG) requirements.

Hours: 18 Lecture.

#### **WFT 045**

##### **ICS for Single Resources (I200)**

**Units:** 1

**Prerequisite:** WFT 044 or ICS 100 certification from FEMA, NWCG or CSFM (CA State Fire Marshal)

This course is designed to teach students how to operate efficiently during an incident or event within the Incident Command System (ICS), and provides training and resources for personnel who are likely to assume a supervisory position within the ICS. The course focuses on the implementation of ICS and single resources. Topics include ICS fundamentals review, leadership and management, delegation of authority, management by objectives, ICS functional areas and positions, briefings, organizational flexibility, and transfer of command. This course meets the National Incident Management System (NIMS) requirements.

Hours: 18 Lecture.

#### **WFT 046**

##### **Intermediate ICS (I300)**

**Units:** 1.5

**Prerequisite:** WFT 045

This course provides description and detail of the Incident Command System (ICS) organization and operations in supervisory roles on expanding or Type 3 incidents. Topics include ICS fundamentals review, incident/event assessment and agency guidance in establishing incident objectives, unified command, incident resource management, planning process, demobilization, transfer of command, and close out. Students are organized into teams for classroom exercises that replicate an incident operation. This course meets National Incident Management Systems (NIMS) requirements.

Hours: 27 Lecture.

**WFT 047****Advanced ICS (I400)****Units:** 1**Prerequisite:** WFT 046

This course provides skills and resources required for advanced application of the Incident Command System (ICS) organization and operations. This course expands on ICS-100, ICS-200, and ICS-300 courses and is intended for command and general staff positions. Topics include ICS fundamentals review, major and/or complex incident/event management, area command, and multiagency coordination. Group exercises emphasize advanced ICS concepts. This course meets National Incident Management Systems (NIMS) requirements.  
Hours: 18 Lecture.

**WFT 077****Wildland Fire Academy****Units:** 16**Prerequisite:** FTEC 044

**Advisory:** WFT 101, WFT 102, WFT 103  
This course is designed for students who want to gain certification as a wildland firefighter through the National Wildland Coordinating Group (NWCG). This course provides training in hand crew formation, fireline construction, and the use of wildland fire equipment. Certification is included in Human Factors in the Wildland Fire Service (NWCG L-180), Firefighter Training (NWCG S-130), Firefighter Type 1 (NWCG S-131), Introduction to Wildland Fire Behavior (NWCG S-190), Portable Pumps and Water Use (NWCG S-211), Firing Operations (NWCG S-219), Basic Air Operations (NWCG S-270), American Heart Association (AHA) First Aid/CPR/AED Certification, California Specialized Training Institute (CSTI) Hazardous Materials First Responder Awareness (FRA) and Hazardous Material Operations (FRO), and California State Fire Marshal (CSFM) Low Angle Rope Rescue Operations (LARRO). Students learn about wildland fire crews (engine crews, hand crews, hotshot crews, helitak crews, and smokejumpers), wildland fire behavior, wildland firefighter personal protective equipment, wildland firefighter safety, helicopter safety, dozer safety, wildland fire pumps, and wildland fire tools and firing devices. This course includes arduous physical conditioning including hiking with up to 45 pounds of weight and other strenuous outdoor activities. The academy exceeds the United States Forest Service (USFS) minimum training requirements for an entry-level wildland firefighter for certification purposes.  
Hours: 189 Lecture. 297 Lab.

**WFT 101****Wildland Fire Behavior****Units:** 3

**It is advised that students be able to engage in written composition at a college level and be able to perform**

**mathematical operations with whole numbers, fractions, decimals, and percentages.****Transfers to:** CSU

This course is part of a series of core courses required for the Wildland Fire Technology Certificate of Achievement and Associate of Science degree programs. This course provides students with information necessary to understand basic wildland fire behavior, wildland fire predictions, and wildland fire operation safety. Wildland fire environmental factors and the tools required to monitor weather and fire behavior are discussed as related to wildland fire predictions. This course meets or exceeds National Wildfire Coordinating Group (NWCG) requirements.  
Hours: 54 Lecture.

**WFT 102****Wildland Firefighter Safety and Survival****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is part of a series of core courses required by the Wildland Fire Technology Certificate of Achievement and Associate of Science degree programs. The course provides students with information necessary to understand occupational safety and hazards associated with wildland firefighting operations. Emphasis is placed on situational awareness, protective measures, accident avoidance procedures, and the risk management process. Students also review fire ground near misses, entrapments, and fatalities. This course meets or exceeds National Wildfire Coordinating Group (NWCG) requirements.  
Hours: 54 Lecture.

**WFT 103****Wildland Fire Operations****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is one in a series of core courses required by the Wildland Fire Technology Certificate of Achievement and Associate of Science Degree programs. This course provides students with information necessary to understand ground and air operations associated with wildland firefighting operations. Emphasis is placed on incident command system use, strategy, tactics, hazards, resource typing, management, and safety procedures during wildland fire incidents. This course meets or exceeds National Wildfire Coordinating Group (NWCG) requirements.  
Hours: 54 Lecture.

**WFT 104****Wildland Fire Investigation, Prevention, and Public Information****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is part of a series of core courses required by the Wildland Fire Technology Certificate of Achievement and Associate of Science degree programs. This course provides students with information and skills necessary to understand the roles and functions of a public information officer (PIO, S-203), fire prevention education team member (PETM, P-101), and the wildland fire investigator (INVF, FI-110). Various wildland fire-associated class projects engage students' public speaking, report writing, and presentation skills. This course meets or exceeds National Wildfire Coordinating Group (NWCG) requirements.  
Hours: 54 Lecture.

**WFT 105****Wildland Fire Logistics, Finance, and Planning****Units:** 3

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course is part of a series of core courses required by the Wildland Fire Technology Certificate of Achievement and Associate of Science degree programs. The course provides students with information necessary to understand the responsibilities and functions of the logistics, finance, and planning sections. Emphasis is placed on how the different incident command system sections are organized and utilized during wildland fire incidents. This course meets or exceeds National Wildfire Coordinating Group (NWCG) requirements.  
Hours: 54 Lecture.

**WFT 290****Cooperative Work Experience/ Internship for Wildland Fire Technology Related Fields****Units:** 1-4

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

**Transfers to:** CSU

This course supports and reinforces on-the-job training in the wildland fire technology (WFT) field under supervision of a college instructor, facilitated by learning objectives. Students work in a skilled or professional-level assignment in the area of wildland fire technology, and meet performance objectives related to instruction required for the conditions of regular employment. The course is intended for students whose job is related to the wildland fire technology field and who have completed or

enrolled in the appropriate coursework.  
Contact the CWE office regarding re-enrollment procedures.

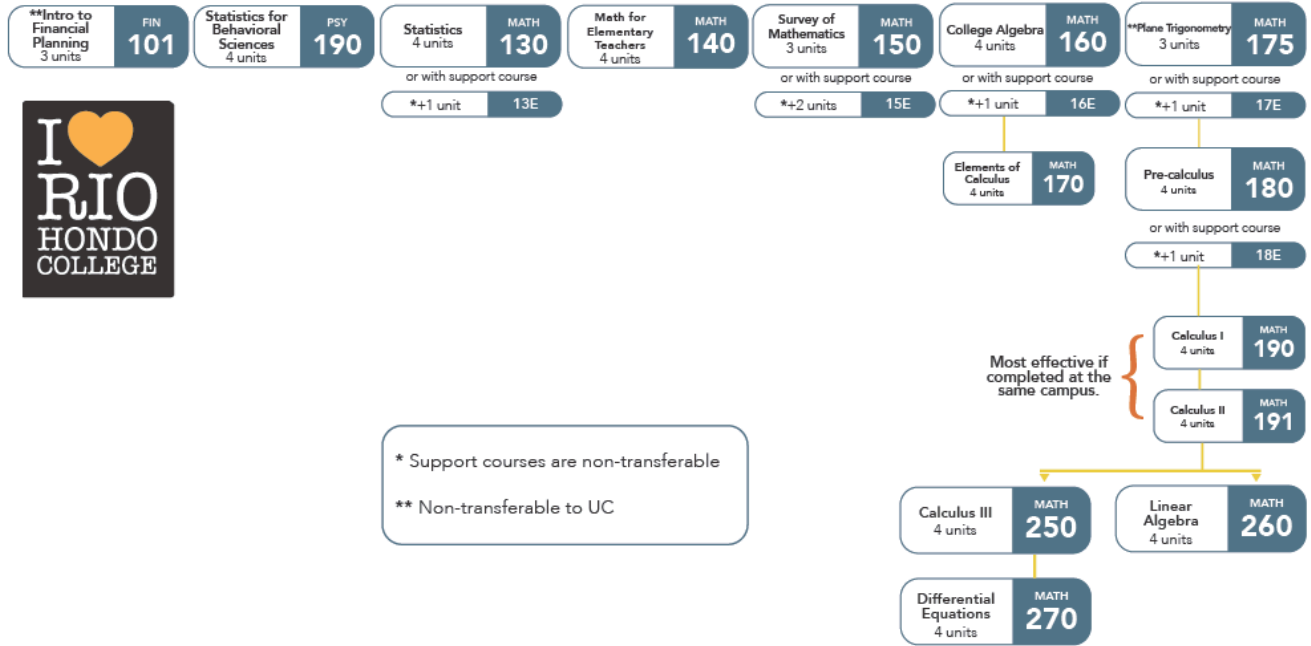
**Student Unpaid Internship:** 1 Unit/60 hours; 2 Units/120 hours; 3 Units/180

hours; 4 Units/240 hours.

**Student Paid Internship:** 1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.  
Hours: 60-300 Lab.

# MATH PATHWAYS

**IMPORTANT**  
Consult with a counselor before choosing a path.  
The math course selected will be determined by your college major.



It is essential for students to consult with a counselor on what classes to take at Rio Hondo College.

If you have any questions or concerns, please visit the First Year Success in LR101 (Learning Resource Center) or by calling (562) 908-3410.

Please see a Counselor if you took the Advance Placement (AP) exam and your score was 3, 4, or 5 or took a college class at another college. Please request transcripts from College Board to be mailed to Rio Hondo College Admissions and Records Office.

MC26-03.20

# 13 Noncredit Programs and Courses

Non-Credit Certificates	Certificate of Completion	Certificate of Competency
Algebra I		•
Algebra II		•
B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design)	•	
California Property Taxation and Appraisal	•	
Career Exploration: Graphic Design	•	
Civil Drawing and Pressure Piping	•	
Computer Fundamentals	•	
Computer Skills for Business I	•	
Computer Skills for Business II	•	
ESL: Advanced English as a Second Language		•
ESL: Foundational English as a Second Language		•
ESL: Intermediate English as a Second Language		•
ESL: English as a Second Language for College Preparation		•
Geometry		•
Healthcare Career Preparation and CPR/Basic Life Support	•	
Integrated Math I		•
Integrated Math II		•
Integrated Math III		•
Medical Billing Specialist	•	
Medical Office Assistant	•	
Parametric Modeling and CADD	•	
Pre-Algebra		•
Public Safety I	•	
Public Safety II	•	
Real Estate Practice and Finance	•	
Real Estate Principles and Appraisal	•	
Secondary Education English Language Arts I		•
Secondary Education English Language Arts II		•
Secondary Education Science		•
Secondary Education Social Science I		•
Secondary Education Social Science II		•
Social Services Career Preparation	•	

## ALGEBRA I

### Noncredit Certificate of Competency

#### Description

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The Algebra I Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Algebra I, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Algebra I**, it is necessary to complete the following courses:

Required Courses		Units: 0
NBAS 020	Review of Algebra I Part A	0
NBAS 021	Review of Algebra I Part B	0
		Total: 0

## ALGEBRA II

### Noncredit Certificate of Competency

#### Description

---

The Algebra II Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Algebra II, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Algebra II**, it is necessary to complete the following courses:

Required Courses		Units: 0
NBAS 024	Review of Algebra II Part A	0
NBAS 025	Review of Algebra II Part B	0
		Total: 0

## B.I.M. AND CADD TECHNOLOGY FOR ARCHITECTURE

### Noncredit Certificate of Completion

#### Description

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The B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design) Technology for Architecture Noncredit Certificate of Completion is intended for individuals who are interested in pursuing training in the use of CADD Technology within the architectural design and drafting fields.

To acquire the **Noncredit Certificate of Completion in B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design) Technology for Architecture**, it is necessary to complete the following courses:

Required Courses		Units: 0
NVOC 150	AutoCAD for Basic CADD Applications	0
NVOC 170	Microstation for Basic CADD Applications	0
NVOC 260	Advanced Architecture Using Revit and 3D Software	0
NVOC 261	Revit for Advanced BIM Architectural, Structural and MEP Applications	0
NVOC 280	Advanced MicroStation for CADD & BIM Applications	0
		Total: 0



# CALIFORNIA PROPERTY TAXATION AND APPRAISAL

## Noncredit Certificate of Completion

### Description

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The **Noncredit Certificate of Completion in California Property Taxation and Appraisal** certifies educational preparation for a specialized segment of the industry: property appraisal and assessment. The certificate comprises four courses: NBIZ 020 (Workforce Preparation), NBIZ 040 (Real Estate Principles), NBIZ 041 (Real Estate Appraisal), and NBIZ 050 (California Property Taxation and Assessment). The certificate program was designed in consultation with the Los Angeles County Office of the Assessor (LACOA) and Workforce Development for Aging and Community Services (WDACS) to meet the ongoing hiring needs for appraisers in public and private sectors.

To acquire the **Noncredit Certificate of Completion in California Property Taxation and Appraisal**, it is necessary to complete the following courses:

Required Courses	Units: 0	
NBIZ 020	Workforce Preparation: 21st Century Skills	0
NBIZ 040	Real Estate Principles	0
NBIZ 041	Real Estate Appraisal	0
NBIZ 050	California Property Taxation and Assessment	0
		Total: 0

## CAREER EXPLORATION: GRAPHIC DESIGN

### Noncredit Certificate of Completion

### Description

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The Graphic Design Noncredit Certificate of Completion is designed to inform and deliver a general understanding to students about the Graphic Design profession. Completion of the sequence of courses will inform students about the profession's general origins, basic processes, and possible academic and career pathways.

To acquire the Noncredit Certificate of Completion in Career Exploration: Graphic Design, it is necessary to complete the following courses:

Required Courses	Units: 0	
NART 291	Career Exploration: Graphic Design I: History	0
NART 292	Career Exploration: Graphic Design II: Process	0
NART 293	Career Exploration: Graphic Design III: Academic Pathways	0
NART 294	Career Exploration: Graphic Design IV: Career Paths	0
		Total: 0

## CIVIL DRAWING AND PRESSURE PIPING

### Noncredit Certificate of Completion

### Description

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The Civil Drawing and Pressure Piping Noncredit Certificate of Completion is intended to improve employability or job placement opportunities in the field of civil engineering and design technology with specialization in pressure piping. Completion of the sequence of courses will prepare students for employment, provide for retraining/upgrading and prepare students for enrollment in advanced training programs in Civil Design technology.

To acquire the **Noncredit Certificate of Completion in Civil Drawing and Pressure Piping**, it is necessary to complete the following courses:

Required Courses	Units: 0
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NVOC 140	Civil Drafting Fundamentals	0
NVOC 170	Microstation for Basic CADD Applications	0
NVOC 265	Pressure Piping Design	0
NVOC 266	Pressure Piping Applications	0

Total: 0

## **COMPUTER FUNDAMENTALS**

### **Noncredit Certificate of Completion**

#### **Description**

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This certificate prepares students for effective use of the personal computer for essential household, educational, and business-related tasks. Students gain basic knowledge of computer hardware/software, files management, and IT literacy. Key competencies include the following: accessing and safely navigating the Internet, creating and managing a personal email account, keyboarding conventions, and producing basic word processing documents (including professional resumes).

To acquire the **Noncredit Certificate of Completion in Computer Fundamentals**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBIZ 001	Introduction to Computers	0
NBIZ 002	Keyboarding and Word Processing	0

Total: 0

## **COMPUTER SKILLS FOR BUSINESS I**

### **Noncredit Certificate of Completion**

#### **Description**

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This certificate prepares students to use Microsoft Word and Microsoft Excel proficiently in business office support settings. Students gain the knowledge and practical skills needed to apply different functions in these computers programs to complete a variety of word processing and database-related tasks, including formatting business letters, creating mailing tools, producing informational and graphic flyers, generating tables and graphs, organizing and maintaining data on spreadsheets, and setting basic formulas for numeric calculations.

To acquire the **Noncredit Certificate of Completions in Computer Skills for Business I**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBIZ 003	Microsoft Word Essentials	0
NBIZ 004	Microsoft Excel Essentials	0

Total: 0

## **COMPUTER SKILLS FOR BUSINESS II**

### **Noncredit Certificate of Completion**

#### **Description**

---

This certificate prepares students to proficiently use Microsoft Outlook, PowerPoint, and Access programs for a variety of applications in business and educational settings. Students gain knowledge and practical skills to apply appropriate program functions to complete a variety of communication and computing tasks, including email correspondence, digital file sharing

and calendar management, and interactive visual presentation. Additionally, students learn to configure database tables, queries, and reports to support data management needs in organizational operations.

To acquire the **Noncredit Certificate of Completions in Computer Skills for Business II**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBIZ 005	Microsoft Outlook and Powerpoint	0
NBIZ 006	Microsoft Access Essentials	0
		Total: 0

## **ESL/FOUNDATIONAL ENGLISH AS A SECOND LANGUAGE**

### **Noncredit Certificate of Competency**

#### **Description**

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Students who complete, in sequence, NESL 001-Beginning I and NESL 015-Beginning II earn the Certificate of Competency in Foundational English as a Second Language. The Certificate, approved by the Chancellor's Office, indicates a student's successful acquisition of essential English language skills necessary for short conversations and for reading/writing at the sentence level.

To acquire the **Noncredit Certificate of Competency in Foundational English as a Second Language**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NESL 001	ESL Beginning I	0
NESL 015	ESL Beginning II	0
		Total: 0

## **ESL/INTERMEDIATE ENGLISH AS A SECOND LANGUAGE**

### **Noncredit Certificate of Competency**

#### **Description**

---

Students who complete, in sequence, NESL 016-Intermediate I and NESL 017-Intermediate II, earn the Certificate of Competency in Intermediate English as a Second Language. The Certificate, approved by the Chancellor's Office, indicates a student's successful acquisition of English language skills necessary for extended conversations and for reading/writing at the paragraph level.

To acquire the **Noncredit Certificate of Competency in Intermediate English as a Second Language**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NESL 016	ESL Intermediate I	0
NESL 017	ESL Intermediate II	0
		Total: 0

## **ESL/ADVANCED ENGLISH AS A SECOND LANGUAGE**

### **Noncredit Certificate of Competency**

#### **Description**

---

Students who complete, in sequence, NESL 017-Intermediate II and NESL 018-Advanced I earn the Certificate of Competency in Advanced English as a Second Language. The Certificate, approved by the Chancellor's Office, indicates a student's successful

acquisition of essential English language skills necessary for extended conversations in social and professional contexts and for reading/writing at the composition level for personal and academic purposes.

To acquire the **Noncredit Certificate of Competency in Advanced English as a Second Language**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NESL 017	ESL Intermediate II	0
NESL 018	ESL Advanced I	0
		Total: 0

## **ESL/ENGLISH AS A SECOND LANGUAGE FOR COLLEGE PREPARATION**

### **Noncredit Certificate of Competency**

#### **Description**

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Students who complete, in sequence, NESL 018-Advanced I and NESL 019-Advanced II earn the Certificate of Competency in English as a Second Language for College Preparation. The Certificate, approved by the Chancellor's Office, indicates a student's successful acquisition of English language skills necessary for engaged participation in various academic programs at the college level.

To acquire the **Noncredit Certificate of Competency in English as a Second Language for College Preparation**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NESL 018	ESL Advanced I	0
NESL 019	ESL Advanced II: College Preparation	0
		Total: 0

## **GEOMETRY**

### **Noncredit Certificate of Competency**

#### **Description**

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The Geometry Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Geometry, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Competency in Geometry**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBAS 022	Review of Geometry Part A	0
NBAS 023	Review of Geometry Part B	0
		Total: 0

## **HEALTHCARE CAREER PREPARATION AND CPR/BASIC LIFE SUPPORT**

### **Noncredit Certificate of Completion**

#### **Description**

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This foundational certificate is designed to orient students to career pathways in the healthcare field, and to prepare them to meet minimum requirements for entry-level employment in medical settings. Students assess compatibility with the healthcare vocation, chart individual educational plans, gain familiarity with common medical terminology, and receive CPR/basic life support training approved by the American Heart Association.

To acquire the **Noncredit Certificate of Completion in Healthcare Career Preparation and CPR/Basic Life Support**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NHSN 040	Healthcare Careers Exploration	0
NHSN 032	American Heart Association CPR BLS	0
NSCI 041	Basic Anatomy for Health Care	0

Total: 0

## **INTEGRATED MATH I**

### **Noncredit Certificate of Competency**

#### **Description**

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The Integrated Math I Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Integrated Math 1, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Completion in Integrated Math I**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBAS 014	Review of Integrated Math I Part A	0
NBAS 015	Review of Integrated Math I Part B	0

Total: 0

## **INTEGRATED MATH II**

### **Noncredit Certificate of Competency**

#### **Description**

---

The Integrated Math II Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Integrated Math II, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Completion in Integrated Math II**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBAS 016	Review of Integrated Math II Part A	0
NBAS 017	Review of Integrated Math II Part B	0

Total: 0

## **INTEGRATED MATH III**

### **Noncredit Certificate of Competency**

#### **Description**

---

The Integrated Math III Noncredit Certificate of Competency is intended for individuals who wish to review the material in the secondary math curriculum, Integrated Math III, and satisfy one year of the three-year math requirement for high school students.

To acquire the **Noncredit Certificate of Completion in Integrated Math III**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
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NBAS 018	Review of Integrated Math III Part A	0
NBAS 019	Review of Integrated Math III Part B	0

Total: 0

## MEDICAL BILLING SPECIALIST

### Noncredit Certificate of Completion

#### Description

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This certificate teaches students the principles and practices of filing medical insurance claims. Students receive training in basic diagnostic and outpatient procedural coding for provider documentations. An important element of the certificate is employment preparation. Students receive guidance in navigating job search resources, preparing application materials, and developing interview skills.

To acquire the **Noncredit Certificate of Completion in Medical Billing Specialist**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 0</b>
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NHSN 044	Medical Insurance Claims	0
NHSN 045	Health Care Industry Employment Readiness	0

Total: 0

## MEDICAL OFFICE ASSISTANT

### Noncredit Certificate of Completion

#### Description

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This certificate teaches students professional office and communication skills appropriate for a medical business environment. Courses cover instruction and practice in task organization, customer service and patient interaction, telephone and email etiquette, Health Insurance Portability and Accountability Act (HIPAA) guidelines, electronic billing, and medical records management software.

To acquire the **Noncredit Certificate of Completion in Medical Office Assistant**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 0</b>
-------------------------	-----------------

NHSN 042	Medical Office Procedure and Customer Service	0
NHSN 043	Medical Office Administration	0

Total: 0

## PARAMETRIC MODELING AND CADD TECHNOLOGY FOR MECHANICAL DESIGN

### Noncredit Certificate of Completion

#### Description

---

The Parametric Modeling and CADD (Computer Assisted Drafting & Design) Technology for Mechanical Design Noncredit Certificate of Completion is intended for individuals who are interested in pursuing training in the use of CADD Technology within the mechanical design and drafting fields.

To acquire the **Noncredit Certificate of Completion in Parametric Modeling and CADD (Computer Assisted Drafting & Design) Technology for Mechanical Design**, it is necessary to complete the following courses:

<b>Required Courses</b>	<b>Units: 0</b>
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NVOC 150	AutoCAD for Basic CADD Applicaitons	0
NVOC 200	Intermediate AutoCAD for Design and Production	0
NVOC 250	Parametric Modeling 3D Applications	0
NVOC 270	SolidWorks for 3D Modeling and Prototype Applications	0

Total: 0

## PRE-ALGEBRA

### Noncredit Certificate of Competency

#### Description

---

The Certificate of Competency in Pre-Algebra is an academic preparation certificate for a course of study in essential algebra skills for successful achievement in secondary math education. Students gain foundational knowledge of algebra and practice applying quantitative thinking processes to solving basic algebraic equations using the order of operations.

To acquire the **Noncredit Certificate of Competency in Pre-Algebra**, it is required to complete the following courses:

**Required Courses** **Units: 0**

NBAS 060	Review of Pre-Algebra Part A
NBAS 061	Review of Pre-Algebra Part B

Total: 0

## PUBLIC SAFETY I

### Noncredit Certificate of Completion

#### Description

---

The **Noncredit Certificate of Completion in Public Safety I** prepares students for a variety of entry-level positions in the field of public safety. Students gain an informed exploration of career pathways, educational requirements, and practical guidance through essential elements of employment readiness. This certificate is a foundational orientation for those seeking admission to a police academy.

To acquire the **Noncredit Certificate of Completion in Public Safety I**, it is necessary to complete the following courses:

**Required Courses** **Units: 0**

NAJ 001	Public Safety Careers Exploration	0
NAJ 002	Public Safety Officer Employment Readiness: Oral Interview and Personal History	0
NAJ 003	Public Safety Officer Lifetime Wellness and Stress Management I	0

Total: 0

## PUBLIC SAFETY II

### Noncredit Certificate of Completion

#### Description

---

The **Noncredit Certificate of Completion in Public Safety II** prepares students for a variety of entry-level positions in the field of public safety. Students acquire fundamental knowledge of laws of arrest, report writing, and managing physical agility and mental health to support successful employment in the public safety and services sector. This certificate provides a focused preparation for admission to a police academy and includes review of the Peace Officer Standards and Training (POST) Entry Level Law Enforcement Test Battery (PELLETB) test.

**Required Courses** **Units: 0**

NAJ 004	Introduction to Laws of Arrest/Search and Seizure	0
NAJ 005	Fundamentals of Report Writing	0
NAJ 006	Public Safety Officer Lifetime Wellness and Stress Management II	0
NAJ 007	PELLETB: Exam Preparation	0

Total: 0

## REAL ESTATE PRACTICE AND FINANCE

### Noncredit Certificate of Completion

#### Description

---

Students who successfully complete NBIZ 038 Real Estate Practice and NBIZ 039 Real Estate Finance (in any sequence) earn the Certificate of Completion in Real Estate Practice and Finance. The Certificate, approved by the California Community College Chancellor's Office, indicates a student's qualified fulfillment of the specified education units required for the California Real Estate Salesperson's License and the California Real Estate Broker License exams, as stipulated by the California Bureau of Real Estate.

To acquire the **Noncredit Certificate of Completion in Real Estate Practice and Finance**, it is necessary to complete the following courses.

Required Courses		Units: 0
NBIZ 038	Real Estate Practice	0
NBIZ 039	Real Estate Finance	0
		Total: 0

## REAL ESTATE PRINCIPLES AND APPRAISAL

### Noncredit Certificate of Completion

#### Description

---

Students who successfully complete NBIZ 040 Real Estate Principles and NBIZ 041 Real Estate Appraisal (in any sequence) earn the Certificate of Completion in Real Estate Principles and Appraisal. The Certificate, approved by the California Community College Chancellor's Office, indicates a student's qualified fulfillment of the specified education units required for the California Real Estate Salesperson's License and the California Real Estate Broker License exams, as stipulated by the California Bureau of Real Estate.

To acquire the **Noncredit Certificate of Completion in Real Estate Principles and Appraisal**, it is necessary to complete the following courses:

Required Courses		Units: 0
NBIZ 040	Real Estate Principles	0
NBIZ 041	Real Estate Appraisal	0
		Total: 0

## SECONDARY EDUCATION ENGLISH LANGUAGE ARTS I

### Noncredit Certificate of Competency

#### Description

---

This is an academic preparation certificate for a course of study aligned with the English Language Arts (ELA) Framework for California Public Schools (secondary education). Students gain foundational knowledge and interpretative skills in English grammar and literature. Key competencies include the understanding of literary elements through the exploration of a variety

of genres; applying active reading strategies for comprehension and interpretation; and writing compositions that integrate grammar, mechanics, enhanced vocabulary, and clarity of ideas.

To acquire the **Noncredit Certificate of Competency in Secondary Education English Language Arts I**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBAS 050	English 1A	0
NBAS 051	English 1B	0
NBAS 052	English 2A	0
NBAS 053	English 2B	0
		Total: 0

## SECONDARY EDUCATION ENGLISH LANGUAGE ARTS II

### Noncredit Certificate of Competency

#### Description

---

This is an academic preparation certificate for a course of study aligned with the English Language Arts (ELA) Framework for California Public Schools (secondary education). Students gain critical thinking, writing, and analytical skills through the lens of American Literature. Key competencies include interpreting and discussing texts from varied perspectives, conducting and synthesizing research from multiple sources, and the applied use of literary devices and rhetorical strategies for written compositions to demonstrate a command of standard American English language conventions.

To acquire the **Noncredit Certificate of Competency in Secondary Education English Language Arts II**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBAS 054	English 3A	0
NBAS 055	English 3B	0
		Total: 0

## SECONDARY EDUCATION SCIENCE

### Noncredit Certificate of Competency

#### Description

---

This is an academic preparation certificate for a course of study aligned with the Science Framework for California Public Schools (secondary education). Students gain foundational and applied knowledge of life and physical science. Key content areas include the nature of science and experimentation, biological hierarchy, the chemistry of living things, matter and its interactions, and an introduction to organic chemistry.

To acquire the **Noncredit Certificate of Competency in Secondary Education Science**, it is necessary to complete the following courses:

<b>Required Courses</b>		<b>Units: 0</b>
NBAS 030	Biology: Living Earth Systems I	0
NBAS 031	Biology: Living Earth Systems II	0
NBAS 032	Chemistry I	0
NBAS 033	Chemistry II	0
		Total: 0

## SECONDARY EDUCATION SOCIAL SCIENCE I

### Noncredit Certificate of Competency

#### Description

---

This is an academic preparation certificate for a course of study aligned with the Social Studies Framework for California Public Schools (secondary education). Students gain a foundational overview and contextual knowledge of United States and world history through the lens of significant events, themes, topics, and people in particular periods.

To acquire the **Noncredit Certificate of Competency in Secondary Education Social Science I**, it is necessary to complete the following courses:

Required Courses		Units: 0
NBAS 040	World History I: 1750-1918	0
NBAS 041	World History II: 1918-Present	0
NBAS 042	U.S. History I: Origins of the American Republic -1945	0
NBAS 043	U.S. History II: 1945-Present	0
		Total: 0

## SECONDARY EDUCATION SOCIAL SCIENCE II

### Noncredit Certificate of Competency

#### Description

---

This is an academic preparation certificate for a course of study aligned with the Social Studies Framework for California Public Schools (secondary education). Students gain foundational and applied knowledge of American government and economics. Key content areas include the principles of American democracy, political systems, financial markets, and international trade.

To acquire the **Noncredit Certificate of Competency in Secondary Education Social Science II**, it is necessary to complete the following courses:

Required Courses		Units: 0
NBAS 044	American Government	0
NBAS 045	Principles of Economics	0
		Total: 0

## SOCIAL SERVICES CAREER PREPARATION

### Noncredit Certificate of Completion

#### Description

---

The Noncredit Certificate of Completion in Social Services Career Preparation is a pre-employment training program that provides foundational knowledge and practical skills for successful entry into rewarding careers in the social services sector. Students are introduced to essential principles and best practices of client-centered case management and gain contextualized job training that includes trauma-informed care, mental health first aid, and human management integration system.

To acquire the **Noncredit Certificate of Completion in Social Services Career Preparation**, it is required to complete the following courses:

Required Courses		Units: 0
NBIZ 020	Workforce Preparation: 21st Century Skills	0
NBSS 060	Social Services Career Exploration	0
		Total: 0

# NONCREDIT COURSES

## Administration of Justice

### NAJ 001

#### Public Safety Careers Exploration Units: 0

This course provides an orientation to the dynamic field of public safety services and career paths. Topics include survey of the history and development of public safety agencies, ethical and moral standards of service members, types of employment opportunities, education and training requirements. Students receive guidance in individual assessment of suitable careers and develop personal education plans.

Hours: 8 Lecture. 0 Lab.

### NAJ 002

#### Public Safety Officer Employment Readiness: Oral Interview and Personal History Units: 0

This course equips students with knowledge and practical guidance in the pre-employment background investigation process for careers in public safety. Students learn how to thoroughly complete the Personal History Statement. Mock interviews and evaluations reinforce oral communication skills, and guidance in professional conduct prepares students to confidently navigate the job application process.

Hours: 8 Lecture. 0 Lab.

### NAJ 003

#### Public Safety Officer Lifetime Wellness and Stress Management I Units: 0

This course offers principles of physical fitness and mental health for students preparing for careers in public safety. Physical wellness topics include principles of physical conditioning, foundations of balanced nutrition, common medical concerns, and elements of the Physical Agility Test (PAT). Mental health topics include stress physiology, importance of social support, effects of substance use, and stress management techniques. Students gain awareness of the integrated nature of mind-body health and develop personal fitness programs.

Hours: 8 Lecture. 0 Lab.

### NAJ 004

#### Introduction to Laws of Arrest/ Search and Seizure Units: 0

This course is an introduction to key federal and state constitutional laws that inform the authority, liability, and responsibilities of public safety agencies in conducting arrests, searches, and seizures. Students gain an overview of the laws of arrest, types of searches and seizures, and their respective execution procedures.

Hours: 4 Lecture. 0 Lab.

### NAJ 005

#### Fundamentals of Report Writing Units: 0

This course introduces the critical functions of investigative reports and the responsibility of Public Safety professionals in preparing complete and accurate reports. Students learn the components of an effective investigative report, review essential grammar and writing mechanics, and practice composing a concise report.

Hours: 8 Lecture. 0 Lab.

### NAJ 006

#### Public Safety Officer Lifetime Wellness and Stress Management II Units: 0

This course reinforces personal disciplines in maintaining physical and mental wellness for Pre-Academy students and prospective police cadets. A practicum companion to NPAC 003 Lifetime Wellness and Stress Management I, this course emphasizes physical performance training to meet specific requirements of the California Commission on Peace Officer Standards and Training.

Hours: 6 Lecture. 0 Lab.

### NAJ 007

#### PELLETB: Exam Preparation Units: 0

This is an academic test preparation course for Pre-Academy students seeking admissions to the Police Academy. Students gain an overview of the components of the POST Entry Level Law Enforcement Test Battery (PELLETB) and are guided in practice exercises with sample questions.

Hours: 4 Lecture. 0 Lab.

### NAJ 008

#### Fundamentals of Law Enforcement Units: 0

This course is designed to provide law enforcement students or those involved in a related public service subject to expand on their knowledge in the major points of law enforcement. Topics include history and general development of law enforcement, ethical and moral standards, California law, and other related issues. Students will receive individualized instruction tailored to their plan of study.

Hours: 0 Lecture. 1-500 Lab.

## Arts & Cultural Programs

### NART 001

#### Art Expressions I: Creative Process and Art Interpretation Units: 0

This college preparatory course engages students in creating and understanding expressive works of art. Students develop skills in creative thinking and articulating a vision or point of view through original artistic expressions. Students gain foundational drawing and painting techniques to support their artistic expressions and

are introduced to basic aesthetic principles for interpreting works of art.

Hours: 22-100 Lecture. 0 Lab.

### NART 002

#### Art Expressions II: Art History and Contemporary Imagination Units: 0

This college preparatory course engages students in creating and understanding expressive works of art. Students gain an overview of major movements in art history and study important works of art that expand the contemporary imagination. Students learn various techniques and the use of media, materials, and equipment, gaining a broad understanding of art historical references in order to give increased depth to their own creative expression. Students reflect on their own artwork and respond to the artwork of others through writing and discussion.

Hours: 22-100 Lecture. 0 Lab.

### NART 005

#### Theatre Production Workshop Units: 0

This course will introduce students to all aspects of preparing for and presenting a full theater production. Topics covered will include technical set-up of the stage, the dress rehearsal, pre-show preparation, techniques for striking the set and the special needs of a traveling show.

Hours: 18-24 Lecture. 36-72 Lab.

### NART 175

#### Animation Skills Development Units: 0

**Advisory:** READ 022 or appropriate placement; knowledge of using Maya and Unreal Engine software that may be used in any ANIM course.

This course complements ANIM lab and lecture courses. It is designed to provide an additional opportunity for students to practice concepts covered in ANIM lab and lecture courses and to enhance their animation work in preparation for their portfolios or demo reels. Such instructional activities are not available in the regular lab and lecture courses, and are not required for a grade in the courses. It is recommended that students have previously or are currently enrolled in any Rio Hondo College Animation course that has a prefix of ART or ANIM.

Hours: 0 Lecture. 3 Lab.

### NART 285

#### Graphic Design Skills Development Units: 0

**It is advised that students be able to engage in written composition at a college level and read college-level texts.**

This course complements the graphic design (GDSN) lab and lecture courses. The course is designed to provide an additional opportunity for students to practice concepts covered in the lab and lecture courses, and to enhance

their graphic design work in as part of portfolio preparation. These instructional activities are not available in the regular lecture / lab courses and are not required for the grade in the courses. It is recommended that students have previously or are currently enrolled in any Rio Hondo College graphic design course with a prefix of ART or GDSN.  
Hours: 0 Lecture. 1-400 Lab.

#### **NART 291**

**Career Exploration: Graphic Design I:**

**History**

**Units: 0**

**It is advised that students be able to read college-level texts.**

This course is intended for students interested in the exploration of a career in Graphic Design. This course is the first in a series of 4 courses and is an abbreviated survey of the origins of the graphic design profession from the development of western printing technology, through the Industrial Revolution into the modern Digital Era.  
Hours: 12 Lecture. 0 Lab.

#### **NART 292**

**Career Exploration: Graphic Design II: Process**

**Units: 0**

**It is advised that students be able to read college-level texts.**

This course is intended for students interested in the exploration of a career in graphic design. This course is the second in a series of 4 courses and is an overview of the practices and tasks involved in the process of developing a graphic design solution.  
Hours: 12 Lecture. 0 Lab.

#### **NART 293**

**Career Exploration: Graphic Design III: Academic Pathways**

**Units: 0**

**It is advised that students be able to read college-level texts.**

This course is intended for students interested in the exploration of a career in graphic design. This course is the third in a series of 4 courses and is an overview of the academic pathways available to students interested in the graphic design profession.  
Hours: 12 Lecture. 0 Lab.

#### **NART 294**

**Career Exploration: Graphic Design IV: Career Paths**

**Units: 0**

**It is advised that students be able to read college-level texts.**

This course is intended for students interested in the exploration of a career in graphic design. This course is the fourth in a series of 4 courses and is an overview of the general career pathways available to students interested in the graphic design profession.  
Hours: 12 Lecture. 0 Lab.

## **Basic Skills**

#### **NBAS 009**

**Supervised Tutoring in College Courses**

**Units: 0**

This course provides students with the tools they need to excel in their courses. Trained tutors individually help students attain higher levels of comprehension and competency by providing supplemental instruction for pre-approved subjects. Workshops enhance student learning. The course is open-entry/open-exit.  
Hours: 0 Lecture. 1-360 Lab.

#### **NBAS 010**

**Supervised Tutoring in Mathematics**

**Units: 0**

Trained tutors will individually help students who need assistance in attaining comprehension and competency in mathematical learning skills. This course is designed to supplement the instruction in mathematics courses and other courses with mathematical content. This course is open-entry/open-exit.  
Hours: 0 Lecture. 1-360 Lab.

#### **NBAS 014**

**Review of Integrated Math I Part A**

**Units: 0**

**Enrollment requires one semester of Integrated Math I. Completion of 8th grade mathematics is recommended.**

This course is a review of the first half of Integrated Math I, a year-long course in which students formalize and extend the mathematics they learned in the middle grades. The course includes topics and content described in the Mathematics I course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

#### **NBAS 015**

**Review of Integrated Math I Part B**

**Units: 0**

**Enrollment requires one semester of Integrated Math I. Completion of eighth grade mathematics is also recommended.**

This course is a review of the second half of Integrated Math I, a year-long course in which students formalize and extend the mathematics they learned in the middle grades. The course includes topics and content described in the Mathematics I course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

#### **NBAS 016**

**Review of Integrated Math II Part A**

**Units: 0**

**Enrollment requires one semester of Integrated Math II. Completion of Integrated Math I is also recommended.**

This course is a review of the first half of Integrated Math II, a year-long course with an emphasis on quadratic expressions, equations, and functions, and which compares their characteristics and behavior to those of linear and exponential relationships from Integrated Mathematics I. The course includes topics and content described in the Mathematics II course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

#### **NBAS 017**

**Review of Integrated Math II Part B**

**Units: 0**

**Enrollment requires one semester of Integrated Math II. Completion of Integration Math I is also recommended**

This course is a review of the second half of Integrated Math II, a year-long course with an emphasis on quadratic expressions, equations, and functions, and which compares their characteristics and behavior to those of linear and exponential relationships from Integrated Mathematics I. The course includes topics and content described in the Mathematics II course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

#### **NBAS 018**

**Review of Integrated Math III Part A**

**Units: 0**

**Enrollment requires one semester of Integrated Math III. Completion of Integrated Math II is also recommended.**

This course is a review of the first half of Integrated Math III, a year-long course in which students integrate and apply the mathematics they have learned from their earlier courses. The course includes topics and content described in the Mathematics III course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

#### **NBAS 019**

**Review of Integrated Math III Part B**

**Units: 0**

**Enrollment requires one semester of Integrated Math III. Integrated Math II is also recommended.**

This course is a review of the first half of Integrated Math III, a year-long course in which students integrate and apply the mathematics they have learned from their earlier courses. The course includes topics and content described in the Mathematics III course from the Common Core State Standards under the conceptual categories of



Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 020**

**Review of Algebra I Part A**

**Units:** 0

**Enrollment requires one semester of Algebra I. Completion of eighth grade mathematics is also recommended.**

This course is a review of the first half of Algebra I, a year-long course in which students formalize and extend the mathematics they learned in the middle grades. The course includes topics and content described in the Algebra I course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 021**

**Review of Algebra I Part B**

**Units:** 0

**Enrollment requires one semester of Algebra I. Completion of eighth grade mathematics is also recommended.**

This course is a review of the second half of Algebra I, a year-long course in which students formalize and extend the mathematics they learned in the middle grades. The course includes topics and content described in the Algebra I course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 022**

**Review of Geometry Part A**

**Units:** 0

**Enrollment requires one semester of Geometry. Completion of Algebra I is also recommended.**

This course is a review of the first half of Geometry, a year-long course in which students formalize and extend their geometric experiences from the middle grades. The course includes topics and content described in the Geometry course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability, covering the domains of portions of Congruence, portions of Similarity, Right Triangles, and Trigonometry, and portions of Modeling with Geometry.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 023**

**Review of Geometry Part B**

**Units:** 0

**Enrollment requires one semester of Geometry. Completion of Algebra I is also recommended.**

**Advisory:** Algebra I

This course is a review of the second half of Geometry, a year-long course in which students formalize and extend their geometric experiences from the middle grades. The course includes topics and content described in the Geometry course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability, covering the domains of portions of Congruence, portions of Similarity, Right Triangles, and Trigonometry, and portions of Modeling with Geometry.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 024**

**Review of Algebra II Part A**

**Units:** 0

**Enrollment requires one semester of Algebra II. Completion of Geometry is also recommended.**

This course is a review of the first half of Algebra II, a year-long course in which students build on their work with linear, quadratic, and exponential functions, and extend their repertoire of functions to include logarithmic, polynomial, rational, and radical functions. The course includes topics and content described in the Algebra II course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 025**

**Review of Algebra II Part B**

**Units:** 0

**Enrollment requires one semester of Algebra II. Completion of Geometry is also recommended.**

**Advisory:** Geometry

This course is a review of the second half of Algebra II, a year-long course in which students build on their work with linear, quadratic, and exponential functions, and extend their repertoire of functions to include logarithmic, polynomial, rational, and radical functions. The course includes topics and content described in the Algebra II course from the Common Core State Standards under the conceptual categories of Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 026**

**Math Analysis**

**Units:** 0

**Enrollment requires both semesters of Algebra II or Integrated Math III, with a grade of C or better, or approval of Mathematics Department Chairperson.**

This course covers the first half of Math Analysis, a year-long study of elementary functions (including linear, quadratic, polynomial, rational, exponential, and logarithmic functions), trigonometry (including trigonometric functions, analytical geometry,

sequences and series), conics, and related topics that provide students with the kind of preparation required for college mathematics. The course may be used for the purpose of helping students make up credit and/or improve the grade from a prior attempt at the course. The course covers portions of the Common Core State Standards domains that fall under the conceptual categories of Number and Quantity, Algebra, Functions, Modeling, and Geometry, including Seeing Structure in Expressions, Arithmetic with Polynomials and Rational Expressions, Creating Equations, Interpreting Functions, Building Functions, Trigonometric Functions, Reasoning with Equations and Inequalities, and The Complex Number System.  
Hours: 70-90 Lecture. 0 Lab.

**NBAS 027**

**Trigonometry**

**Units:** 0

**Enrollment requires successful completion of Math Analysis part A, and both semesters of Algebra II or Integrated Math III, with a grade of "C" or better, or approval of Mathematics Department Chairperson.**

This course covers the second half of Math Analysis, a year-long study of elementary functions (including linear, quadratic, polynomial, rational, exponential, and logarithmic functions), trigonometry (including trigonometric functions, analytical geometry, sequences and series), conics, and related topics that provide students with the kind of preparation required for college mathematics. The course may be used for the purpose of helping students make up credit and/or improve the grade from a prior attempt at the course. The course covers portions of the Common Core State Standards domains that fall under the conceptual categories of Number and Quantity, Algebra, Functions, Modeling, and Geometry, including Seeing Structure in Expressions, Arithmetic with Polynomials and Rational Expressions, Creating Equations, Interpreting Functions, Building Functions, Trigonometric Functions, Reasoning with Equations and Inequalities, and The Complex Number System.  
Hours: 70-90 Lecture. 0 Lab.

**NBAS 028**

**Precalculus with Trigonometry Part A**

**Units:** 0

**Enrollment requires both semesters of Algebra II or Integrated Math III, with a grade of "C" or better, or approval of Mathematics Department Chairperson.**

This course covers the first half of Precalculus with Trigonometry, a year-long study of elementary functions (including linear, quadratic, polynomial, rational, exponential, and logarithmic functions), trigonometry (including trigonometric functions, analytical

geometry, linear systems, vectors, sequences, and series), conics, and related topics that provide students with the kind of preparation required for college mathematics. The course may be used for the purpose of helping students make up credit and/or improve the grade from a prior attempt at the course. The course covers portions of the Common Core State Standards domains that fall under the conceptual categories of Number and Quantity, Algebra, Functions, Modeling, and Geometry, including Seeing Structure in Expressions, Arithmetic with Polynomials and Rational Expressions, Creating Equations, Interpreting Functions, Building Functions, Trigonometric Functions, Reasoning with Equations and Inequalities, and The Complex Number System.

Hours: 70-90 Lecture. 0 Lab.

**NBAS 029**  
**Precalculus with Trigonometry Part B**  
**Units: 0**

**Enrollment requires successful completion of Precalculus with Trigonometry part A, and both semesters of Algebra II or Integrated Math III, with a grade of C or better, or approval of Mathematics Department Chairperson.**

This course covers the second half of Precalculus with Trigonometry, a year-long study of elementary functions (including linear, quadratic, polynomial, rational, exponential, and logarithmic functions), trigonometry (including trigonometric functions, analytical geometry, linear systems, vectors, sequences, and series), conics, and related topics that provide students with the kind of preparation required for college mathematics. The course may be used for the purpose of helping students make up credit and/or improve the grade from a prior attempt at the course. The course covers portions of the Common Core State Standards domains that fall under the conceptual categories of Number and Quantity, Algebra, Functions, Modeling, and Geometry, including Seeing Structure in Expressions, Arithmetic with Polynomials and Rational Expressions, Creating Equations, Interpreting Functions, Building Functions, Trigonometric Functions, Reasoning with Equations and Inequalities, and The Complex Number System.

Hours: 70-90 Lecture. 0 Lab.

**NBAS 030**  
**Biology: Living Earth Systems I**  
**Units: 0**

This course is part of the credit recovery instructional program developed in partnership with Rio Hondo College Continuing Education, Rio Hondo College Student Success, and El Rancho High School. The credit recovery program supports students seeking to complete secondary education requirements for college preparation.

This course and its successor (NBAS 031) align with the Science Framework for California Secondary Education and fulfill the minimum requirement for two courses in science (biological and physical sciences) for the high school diploma or its equivalent (i.e., a GED).  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 031**  
**Biology: Living Earth Systems II**  
**Units: 0**

This course is part of the credit recovery instructional program developed in partnership with Rio Hondo College Continuing Education, Rio Hondo College Student Success, and El Rancho High School. The credit recovery program supports students seeking to complete secondary education requirements for college preparation. This course and its precursor (NBAS 030) align with the Science Framework for California Secondary Education and fulfill the minimum requirement for two courses in science (biological and physical sciences) for the high school diploma or its equivalent (i.e., a GED).  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 032**  
**Chemistry I**  
**Units: 0**

This physical science course introduces students to the fundamental nature of matter and its interactions. Topics include atomic and electronic structure, the nomenclature of compounds, chemical calculations, stoichiometry, bonding and shapes of molecules, and chemical reactions. Relevant laboratory exercises are an essential component of the course.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 033**  
**Chemistry II**  
**Units: 0**

This physical science course introduces students to matter and its interactions. Topics include a detailed study of gases, liquids, solids, and intermolecular forces; solutions; properties and reactions of acids and bases; oxidation-reduction reactions and electrochemistry; chemical equilibrium; organic chemistry; and biochemistry. Relevant laboratory exercises are an essential component of the course.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 040**  
**World History I: 1750-1918**  
**Units: 0**

This course examines the significant events, themes, topics, and people that comprise world history from 1750 to 1918. The course explores the diversity of experiences, struggles, and triumphs that occurred across the globe throughout this period.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 041**  
**World History II: 1918-Present**  
**Units: 0**

This course examines the significant events, themes, topics, and people that comprise world history from 1918 to the present. The course explores the diversity of experiences, struggles, and triumphs that occurred across the globe throughout this period.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 042**  
**U.S. History I: Origins of the American Republic -1945**  
**Units: 0**

This course examines the significant events, themes, topics, and people that comprise the history of the United States from the origins of the early republic to 1945. Students gain a broad view of U.S. history by exploring the diversity of experiences, struggles, and triumphs that occurred in the nation throughout this period.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 043**  
**U.S. History II: 1945-Present**  
**Units: 0**

This course examines the significant events, themes, topics, and people that comprise the history of the United States from 1945 to the present. Students gain a broad view of U.S. history by exploring the diversity of experiences, struggles, and triumphs that occurred in the nation throughout this period.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 044**  
**American Government**  
**Units: 0**

This course surveys and analyzes the origins, principles, institutions, policies, and politics of U.S. federal and California state governments, including their constitutions. Emphasis is placed on the rights and responsibilities of citizens, and an understanding of the political processes and issues involved in the workings of government.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 045**  
**Principles of Economics**  
**Units: 0**

This course is an introduction to the basic principles of economics. It is designed to orient students to an economic way of thinking in order to understand microeconomic concepts such as economic systems, demand and supply for goods, markets for goods and labor, business operations, and financial investment decisions. As a secondary focus, students are exposed to macroeconomic concepts such as economic growth, inflation, unemployment, government policies, and the global economy.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 050**  
**English 1A**  
**Units: 0**

This course provides a foundational understanding of literary elements through the exploration of short stories,

drama, and nonfiction articles. Students develop reading strategies and apply the writing process to compose essays that demonstrate use of precise language, rhetorical devices, and domain-specific vocabulary.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 051**  
**English 1B**  
**Units: 0**

This course expands on the foundational understanding of literary elements. Students are introduced to strategies for close reading of texts and writing expository and argumentative compositions. Students apply rhetorical methods to explore themes in works of literature and apply the writing process to compose essays that demonstrate an organization of ideas supported by textual evidence.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 052**  
**English 2A**  
**Units: 0**

In this course, students explore a variety of literary genres such as novels, short stories, drama, and non-fiction articles to bolster reading comprehension, analytical skills, grammar and mechanics, and vocabulary enhancement. Students develop critical reading skills and deploy rhetorical strategies for using words with greater nuance, agility, and influence.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 053**  
**English 2B**  
**Units: 0**

In this course, students explore a variety of genres such as novels, short stories, drama, and non-fiction articles to refine critical reading comprehension, analytical skills, grammar and mechanics, and vocabulary enhancement. Students synthesize interpretations from multiple text sources and develop a research-supported composition.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 054**  
**English 3A**  
**Units: 0**

In this course, students develop critical thinking, writing, and analytical skills through the lens of American literature. Students integrate language skills development with inquiries in the geopolitical, intellectual, and philosophical characteristics of major movements within the American diaspora.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 055**  
**English 3B**  
**Units: 0**

In this course, students refine critical thinking, writing, and analytical skills through the lens of American literature. Students integrate language skills development with inquiries in the

aesthetics of realism and naturalism, as well as the modernist and contemporary periods in American literature.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 060**  
**Review of Pre-Algebra Part A**  
**Units: 0**

This course is designed primarily for students who know the fundamentals of arithmetic but have little or no background in algebra. The course strengthens students' arithmetic skills and prepares students for algebra by introducing them to the fundamental principles of the real number system, solving linear equations, and graphing linear equations.  
Hours: 22-100 Lecture. 0 Lab.

**NBAS 061**  
**Review of Pre-Algebra Part B**  
**Units: 0**

This course is designed primarily for students who know the fundamentals of arithmetic but have little or no background in algebra. The course strengthens students' arithmetic skills and prepares students for algebra by introducing them to functions, systems of equations, basic geometric concepts and skills, and the basics of probability and statistics.  
Hours: 22-100 Lecture. 0 Lab.

## Business

**NBIZ 001**  
**Introduction to Computers**  
**Units: 0**

This course is designed to enable efficient operation of the alphanumeric keyboard on a computer. Common keyboarding techniques will be applied to develop speed and accuracy. Students will create typed document files and learn editing/formatting functions on Microsoft® Word® and a variety of word processing programs in order to prepare school assignments, personal and essential business correspondences.  
Hours: 24 Lecture. 0 Lab.

**NBIZ 002**  
**Keyboarding and Word Processing**  
**Units: 0**

This course is designed to enable efficient operation of the alphanumeric keyboard on a computer. Common keyboarding techniques will be applied to develop speed and accuracy. Students will create typed document files and learn editing/formatting functions in order to prepare school assignments and personal and business correspondences.  
Hours: 24 Lecture. 0 Lab.

**NBIZ 003**  
**Microsoft Word Essentials**  
**Units: 0**

This course prepares students for independent and confident use of Microsoft Word. Students will create documents applying to a variety of

editing features including the following: adjusting margins and tab settings; copying, pasting, moving texts; formatting layout; running the integrated grammar and spelling review; modifying header and footer areas; creating tables and graphs. Students will prepare a variety of documents for school and office environments, including creating a professional resume.  
Hours: 24-48 Lecture. 0 Lab.

**NBIZ 004**  
**Microsoft Excel Essentials**  
**Units: 0**

This course is an orientation to the primary functions of spreadsheets for data management using Microsoft® Excel®. Topics include creating cell data, formatting cells and worksheets, and applying formulas and functions. Students will learn how to analyze and organize data, present data visually by creating charts, and manage the worksheet and workbook environment.  
Hours: 24-48 Lecture. 0 Lab.

**NBIZ 005**  
**Microsoft Outlook and Powerpoint**  
**Units: 0**

In this course, students gain skills necessary for dynamic uses of Microsoft Outlook and Microsoft PowerPoint for personal, school, or work-related contexts. Students explore various features of email communication, digital files sharing, and calendar management in Outlook, and learn how to create animated electronic presentations using PowerPoint tools. Students practice by making a presentation with supporting visual slides.  
Hours: 24 Lecture. 0 Lab.

**NBIZ 006**  
**Microsoft Access Essentials**  
**Units: 0**

In this course, students learn to use Microsoft Access, a widely used database management system in business environments. Students learn design guidelines for developing database structures in order to customize tables, queries, forms, and reports for various business needs. Students learn to edit tables, design and establish query criteria, customize forms, and format reports for professional printouts.  
Hours: 24 Lecture. 0 Lab.

**NBIZ 007**  
**Introduction to Information Systems**  
**Units: 0**

This course introduces students to computer concepts and information systems that support the productive use of digital technology for a variety of personal and work-related tasks. Designed for students with limited computer experience, the course provides orientation to common operating systems and applications useful for online communication, digital media sharing, and personal data

organization, including personal finance management. Attention is given to Internet navigation safety, information privacy, and digital security protections. Hours: 12-24 Lecture. 12-24 Lab.

**NBIZ 008**  
**Information Systems for Business**  
**Units:** 0

This course provides a fundamental understanding of how information technology is used in business to develop and maintain efficient, accessible, and strategic operations. Students are introduced to essential concepts in business information systems and gain familiarity with data management systems for supporting communication, networking, and business planning. The course also provides practical orientation to career entry in the technology industry and guidance for exploring opportunities for training, certification, and job placement.

Hours: 12-24 Lecture. 12-24 Lab.

**NBIZ 020**  
**Workforce Preparation: 21st Century Skills**  
**Units:** 0

This course orients students to essential capacities for professional and collegial workplace performance: critical thinking, communication, collaboration, and cultural humility. Additionally, students gain practical guidance in resumé composition and job interview preparation.

Hours: 15 Lecture. 0 Lab.

**NBIZ 038**  
**Real Estate Practice**  
**Units:** 0

This class is an introduction to the professional aspects of the real estate industry. The focus of the course is on the agency responsibilities of the salesperson including office management, listing and prospecting property, selling and marketing techniques, advertising, securing loans, and closing procedures. Students will also acquire general knowledge of other pertinent fields as they relate to real estate, such as finance, appraisal, escrow, and investing. This course is approved by the California Bureau of Real Estate (CalBRE) to fulfill education requirements for the California Real Estate Salesperson License and may be applied towards the California Real Estate Broker License requirements. Taken in sequence with NVOC 039, students earn the Certificate of Completion in Real Estate Practice and Finance issued by the California Community Colleges Chancellor's Office.

Hours: 48 Lecture. 0 Lab.

**NBIZ 039**  
**Real Estate Finance**  
**Units:** 0

This course is designed to help the pre- and new licensee, the experienced real estate agent, the investor, and the

lender gain a better understanding of the complex world of real estate finance. It covers all aspects of real estate financing from completing loan applications, navigating the escrow process, to closing loans. The course details current lending policies, qualifying standards, and disclosure requirements. This course is approved by the California Bureau of Real Estate (CalBRE) to meet the elective education requirements for the California Real Estate Salesperson License and the California Real Estate Broker License. Taken in sequence with NVOC 038, students earn the Certificate of Completion in Real Estate Practice and Finance issued by the California Community Colleges Chancellor's Office.

Hours: 48 Lecture. 0 Lab.

**NBIZ 040**  
**Real Estate Principles**  
**Units:** 0

This is a foundational real estate course that covers the basic laws and principles of land and property transactions. Course topics include overview of property laws, land descriptions, titles, acquisition and transfer, liens and encumbrances, taxation, contract law, landlord and tenant laws, and real estate mathematics and finance. Students will become familiar with terminology and forms commonly used in everyday real estate transactions. This course is approved by the California Bureau of Real Estate (CalBRE) to fulfill education requirements for the California Real Estate Salesperson License. Taken in sequence with NVOC 041, students earn the Certificate of Completion in Real Estate Principles and Appraisal issued by the California Community Colleges Chancellor's Office.

Hours: 48 Lecture. 0 Lab.

**NBIZ 041**  
**Real Estate Appraisal**  
**Units:** 0

This course provides a comprehensive overview of real estate appraisal principles and procedures. Topics include land values and their characteristics, the process of appraising, capitalization theory, site analysis, and construction methods. Students gain guided practice in accrued depreciation analysis, income and expense analysis, and techniques in the income approach method of appraising. This course is approved by the California Bureau of Real Estate (CalBRE) to meet the elective education requirements for the California Real Estate Salesperson License and the California Real Estate Broker License. Taken in sequence with NVOC 040, students earn the Certificate of Completion in Real Estate Principles and Appraisal issued by the California Community Colleges Chancellor's Office.

Hours: 48 Lecture. 0 Lab.

**NBIZ 050**  
**California Property Taxation and Assessment**  
**Units:** 0

This course provides students with a fundamental knowledge of California's property tax system for assessing purposes. The course provides students with an overview of Proposition 13, who apply its provisions to various property assessment situations, including appraisals, changes in ownership, exemptions, and assessment appeals.

Hours: 24 Lecture. 0 Lab.

## Behavioral Social Sciences

**NBSS 040**  
**Family Child Care License Preparation, Nutrition, Safety and Preventative Health**  
**Units:** 0

This course provides the information needed to comply with Title 22 requirements to secure a Family Child Care license from the Department of Social Services Child Care Licensing Program. Topics include buildings, grounds, personnel requirements, and operation of a family child care facility. The course also includes licensing-required training related to nutrition, preventative health, and safety.

Hours: 40 Lecture. 0 Lab.

**NBSS 060**  
**Social Services Career Exploration**  
**Units:** 0

This course is designed as a pre-employment training for rewarding careers in the social services sector. Students gain an overview of career pathways in the field and receive contextualized training for employment as case managers, peer specialists, and community outreach workers in government and nonprofit agencies. Topics include client integrated support, intervention and advocacy, mental health, trauma-informed care, effective engagement, and data entry training (Human Management Integration System). Job search and placement assistance is integrated in the course.

Hours: 50-150 Lecture. 0 Lab.

## Health and Safety

**NCHS 001**  
**Health and Fitness**  
**Units:** 0

This is an open-entry, open-exit course to develop and enhance a student's knowledge of the importance of healthy lifestyles and to further develop skills which will facilitate a personal fitness program. Student's will also participate in specific activities that develop an individual's level of physical fitness.

Hours: 0 Lecture. 1-54 Lab.

**NCHS 002**



**Beginning Jujitsu: Self Defense for Adults****Units:** 0

This course is designed to teach the basic skills of self-defense. Students will be taught skills related to coordination, quick reflex response, how to build stamina, speed, and strength. They will learn all phases of punches, blocks, kicks, hand releases and breaks, two-step fighting, judo and jujitsu falls. Students will practice strategies of protecting themselves from attackers. Hours: 48 Lecture. 0 Lab.

## Citizenship

**NCIT 002****US Citizenship Preparation****Units:** 0

This course is designed to assist eligible individuals in completing the steps required to become United States citizens. Students gain knowledge of United States history, government and institutions, community services and agencies, and the privileges and obligations of citizenship. The course prepares students with literacy skills necessary to pass the written test and provides listening and speaking practices for the oral interview. Students will receive guidance on completing appropriate application forms. Hours: 45 Lecture. 0 Lab.

## Older Adults

**NCOA 001****Painting for Older Adults****Units:** 0

This course offers the older adult an individual approach to painting and creative arts. Topics may include art appreciation and art history; awareness of line, color, shape and form; techniques in drawing and progression through color mixing and canvas painting. Creativity and general art knowledge will be taught in a friendly and relaxed environment allowing each artist to work at their own pace. Hours: 16-48 Lecture. 0 Lab.

**NCOA 002****Music Workshop for the Third Age****Units:** 0

Courses for instrumental and vocal musical experiences. Included can be rehearsals and performances in cooperation with the Rio Hondo Chapter of Sweet Adelines; other local choral and/or singing groups; and instruction in learning to play a musical instrument. Hours: 18 Lecture. 18 Lab.

**NCOA 007****Chorus Singing/OA****Units:** 0

This course introduces older adult students to a variety of choral music and explores its cultural and historical aspects. Students will gain knowledge

of posture, vowel modification, elements of phrasing and harmony. Students will perform vocal exercises and practice breathing techniques appropriate for the older adult. Hours: 1 Lecture. 0 Lab.

**NCOA 008****Computers Unlimited for Older Adults****Units:** 0

This course is designed for the older adult who thinks he or she will never learn to use a computer. Students will build basic skills that will prepare them to write documents, send e-mail, use online banking or simply enjoy surfing the Internet. Mastery of the basic skills will let you grow from simple accomplishments to things you never dreamed possible. Our gentle, easy approach will show you the many ways that computers can be fun and interesting. Hours: 8-20 Lecture. 8-20 Lab.

**NCOA 010****Principles of Mind and Body Health for Older Adults I: Flexibility and Balance****Units:** 0

This course provides older adults with instruction and resources for cultivating mind and body health. Guided instruction in active and passive yoga poses, stretching movements, and breathing exercises adapted for older adults is incorporated with introduction to the philosophy of Hatha Yoga. The course includes presentations and class discussions on current topics in nutrition, healthy aging, and safety factors. Hours: 1-24 Lecture. 0 Lab.

**NCOA 012****Principles of Mind and Body Health for Older Adults II: Strength and Balance****Units:** 0

This course provides older adults with instruction and resources for cultivating mind and body health. Guided instruction in movements to maintain and increase muscle strength, physical fitness, coordination, and balance is combined with class discussions on current topics in nutrition, healthy aging, and mental health. Hours: 1-24 Lecture. 0 Lab.

**NCOA 015****Creative Writing for Older Adults****Units:** 0

This course is for older adults and teaches both beginning and experienced writers how to create and shape autobiographies, fiction, non-fiction and poetry into readable and publishable forms. Participants will put their experiences on paper and analyze quality, selection and structure of written materials through group discussion and projects. Hours: 10-32 Lecture. 0 Lab.

## Communications and Languages

**NCOM 012****Academic Enrichment****Units:** 0

This course supports students in developing effective academic study skills and learning strategies to reach their educational goals. Students gain various techniques for note taking, test taking, text reading, memorizing, time planning, and communicating. The course provides resources for managing stress, maintaining personal well-being, and community building in diverse settings. Hours: 22-100 Lecture. 0 Lab.

**NCOM 285****Journalism and Mass Communications Skills Development****Units:** 0

**Advisory:** READ 022 or appropriate assessment  
This course complements radio, mass communications, and journalism (RDIO, MSCM, JOUR) lab and lecture courses. It provides an additional opportunity for students to practice concepts covered in these courses and enhances their work in preparation for the development of journalism and mass communications media. These instructional activities are not available in the regular lab and lecture courses and are not required for the grade in the courses. It is highly recommended that students have previously taken or are currently enrolled in any Rio Hondo College mass communications course with a prefix of RDIO, MSCM, or JOUR. Hours: 0 Lecture. 1-400 Lab.

## English as a Second Language

**NESL 001****ESL Beginning I****Units:** 0

This course is suitable for the true beginner to the English language. This entry level course focuses on the acquisition of basic speaking, listening, reading, and writing skills to meet immediate social communication needs in an English-speaking environment. Successful completion of this course prepares students to enter NESL 015. Hours: 30-60 Lecture. 0 Lab.

**NESL 015****ESL Beginning II****Units:** 0

**Prerequisite:** NESL 001 or equivalent placement (CASAS Appraisal)  
This course is designed to provide an introduction to English speaking, listening, reading, and writing skills enabling the student to satisfy routine demands in social settings. Students develop the ability to comprehend and respond to basic spoken English. Students practice reading and writing at

the sentence level. If taken in sequence with NESL 001, successful completion of this course earns a Certificate of Competency in Foundational English as a Second Language and prepares students for entry into NESL 016.  
Hours: 30-60 Lecture. 0 Lab.

**NESL 016  
ESL Intermediate I**

**Units:** 0  
**Prerequisite:** NESL 015 or equivalent placement (CASAS Appraisal)  
This course focuses on expanding students' listening and speaking skills in face-to-face conversations in social, academic, and work contexts. Students gain ability to read and interpret narrative passages on a variety of topics, and to write simple routine correspondence and short paragraphs. Upon successful completion of this course students are prepared to enter NESL 017.  
Hours: 30-60 Lecture. 0 Lab.

**NESL 017  
ESL Intermediate II**

**Units:** 0  
**Prerequisite:** NESL 016 or equivalent placement (CASAS Appraisal)  
This course focuses on preparing English learners to communicate independently and effectively for a variety of purposes and audiences. Students practice engaging in extended conversations, reading for comprehension of authentic texts, and writing multiple paragraphs with good command of grammar conventions. If taken in sequence with NESL 016, successful completion of this course earns a Certificate of Competency in Intermediate English as a Second Language and prepares students for entry into NESL 018.  
Hours: 30-60 Lecture. 0 Lab.

**NESL 018  
ESL Advanced I**

**Units:** 0  
**Prerequisite:** NESL 017 or equivalent placement (CASAS Appraisal)  
This course stresses the refinement and expansion of language skills which enable students to use fluid-paced English to effectively meet social, academic, and workplace demands. Reading for comprehension focuses on factual extraction as well as interpretation using critical thinking skills. Progression of writing skills focuses on the introduction of the writing process and the construct well-developed compositions. If taken in sequence with NESL 017, successful completion of this course earns a Certificate of Competency in Advanced English as a Second Language and prepares students for direct entry to Rio Hondo College's Credit English Program.  
Hours: 30-60 Lecture. 0 Lab.

**NESL 019  
ESL Advanced II: College Preparation**

**Units:** 0

**Prerequisite:** NESL 018 or equivalent placement

The College Preparation course is the highest Noncredit ESL level designed for students who wish to prepare for transition into various academic programs at the college level. This course reinforces and builds on students' English language skills to meet the academic expectations of college courses. Students are introduced to basic elements of an academic course: understanding the syllabus, note-taking, participating in discussion, interpreting written texts, composing essays, and making presentations. Students practice these academic skills in a supportive language-learning community. If taken in sequence with NESL 018, the successful completion of this course earns the Certificate of Competency in English for College Preparation and prepares students for direct entry to Rio Hondo College's Credit English Program.  
Hours: 30-60 Lecture. 0 Lab.

## Fire Technology

**NFIR 015  
Practical Experience in Fire  
Suppression**

**Units:** 0  
This course is designed to provide fire technology students or those involved in a related fire science subject to expand on their knowledge in the major points of fire service. Topics include the traditions of the fire service, general development of a firefighter, ethical and moral standards, and other related issues pertaining to the fire service. Students will receive individualized instruction tailored to their personal plan of study.  
Hours: 0 Lecture. 1-500 Lab.

## Green Building

**NGBD 101  
Green Building Basics & LEED**

**Units:** 0  
The course offers an introduction to USGBC, green building principles and the fundamentals of the LEED Rating System. It includes topics on climate change and building impacts; motivators for green building; and integrative versus conventional approaches – and the associated benefits – to building design, construction and operations. This course is intended for those who are new to green building and looking to learn the basics of green building and LEED.  
Hours: 20 Lecture. 0 Lab.

## Health Science and Nursing

**NHSN 030**

**Personal Care Aide  
Units:** 0  
**GED or High School Diploma is  
recommended**

**Corequisite:** NHSN 031  
This course is designed to prepare students to assist elderly, disabled, and ill individuals living at home. This course will help students enhance their communication skills and knowledge of health environment and procedures for emergencies. Students will also learn to recognize physical, emotional, and developmental characteristics of individuals served; personal hygiene, safe transfer techniques, basic nutrition, and other personal care needs.  
Hours: 70 Lecture. 30 Lab.

**NHSN 031  
First Aid and CPR  
Units:** 0

This course teaches skills with the AHA's research-proven practice-while-watching technique. The course is designed to teach students critical skills needed to respond to and manage an emergency until emergency medical services arrives. Skills covered in this course include first aid; choking relief in adults, children, and infants; and what to do for sudden cardiac arrest in adults, children, and infants. This course is for anyone with limited or no medical training who needs a course completion card in CPR and AED use to meet job, regulatory, or other requirements.  
Hours: 8 Lecture. 0 Lab.

**NHSN 032  
American Heart Association CPR BLS  
Units:** 0

This course is taught by AHA Instructors which meet the requirements for most nursing programs and clinical facilities. This course teaches both single-rescuer and team basic life support skills for application in both pre-hospital and in-facility environments, with a focus on High-Quality CPR and team dynamics. Basic Life Support training reinforces healthcare professionals' understanding of the importance of early CPR and defibrillation, basic steps of performing CPR, relieving choking, and using an AED; and the role of each link in the Chain of Survival.  
Hours: 4 Lecture. 0 Lab.

**NHSN 033  
Pediatric First Aid CPR AED  
Units:** 0

This certification course is designed to train childcare providers in responding to illnesses and injuries in a child or infant in the first few minutes until professional help arrives. The course reflects science and education of the American Heart Association (AHA) 2020 Update for CPR and the AHA/Red Cross Guidelines for First Aid. Completion of this course satisfies Title 22 requirements for CPR and First Aid training for childcare providers. Students who successfully complete this course will be eligible to receive the



AHA Heartsaver® Pediatric First Aid CPR AED Card.

Hours: 8 Lecture. 0 Lab.

**NHSN 040**  
**Healthcare Careers Exploration**  
**Units:** 0

This course is an orientation to non-clinical allied healthcare career pathways. Students gain exposure to the human services and administrative support dimensions of the healthcare field and learn about employment opportunities, educational requirements, and support resources available to enter the growing workforce. Students benefit from assessing their personal values and aptitudes for a career in healthcare while engaging general introductions to principles and practices foundational to healthcare careers.

Hours: 24 Lecture. 0 Lab.

**NHSN 042**  
**Medical Office Procedure and Customer Service**  
**Units:** 0

This course is designed to develop professional skills and attitudes needed in a medical business environment. Topics include effective communication with patients and medical office staff, effective time management, scheduling appointments, greeting patients, telephone and email business etiquette, and adherence to Health Insurance Portability and Accountability Act (HIPAA) guidelines.

Hours: 24 Lecture. 0 Lab.

**NHSN 043**  
**Medical Office Administration**  
**Units:** 0

**Advisory:** NHSN 042

This course is a practicum to complement NHSN 042 - Medical Office Procedures and Customer Service. Students engage in patient interaction simulations, applying customer service skills, and using computers in a medical/clinical setting. Students gain hands-on experience in scheduling appointments, working with electronic medical records, and establishing a fee schedule, and receive orientation to the Microsoft Office suite, electronic billing software, electronic medical record software, and telephone, fax, and email systems.

Hours: 48 Lecture. 0 Lab.

**NHSN 044**  
**Medical Insurance Claims**  
**Units:** 0

This course provides an overview of common health insurance terminology and selected aspects of private and government insurance coverage. The course introduces basic principles of diagnostic and outpatient procedural coding of physician/provider documentation. Students learn how to originate accurate and efficient reimbursement medical insurance claims for services provided.

Hours: 48 Lecture. 0 Lab.

**NHSN 045**  
**Health Care Industry Employment Readiness**  
**Units:** 0

This course equips students with skills and strategies for successful job placement in the health care industry. Course topics include interpersonal skills development, business communication, professional dress, and time management. Students receive practical guidance in resume and cover letter writing, interviewing, and navigating job search resources.

Hours: 24 Lecture. 0 Lab.

**NHSN 050**  
**Nurse Assistant Pre-Certification**  
**Units:** 0

**Corequisite:** NVOC 050L

**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, MATH 020 or MATH 020C or appropriate placement, READ 043 or appropriate placement  
This course is designed for students who have expressed an interest in an entry level nursing course. This course meets Title 22 regulations for taking care of the geriatric population in a long term care setting, utilizing skills in basic care, emergency care and communication. The nurse Assistant Pre-Certification course consists of 72 hours of classroom instruction. This course prepares the student to take the California State Certification Exam to become a Certified Nurse Assistant (CNA). After obtaining the state certification, the student may find employment in the acute care and /or long term care settings. The California Department of Public Health requires that students must be concurrently enrolled in both NHSN 050 and NHSN 05L, and pass both courses together, they cannot be taken individually.

Hours: 72 Lecture. 0 Lab.

**NHSN 050L**  
**Nurse Assistant Pre-Certification Lab**  
**Units:** 0

**Corequisite:** NHSN 050

**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, MATH 020 or MATH 020C or appropriate placement, READ 043 or appropriate placement  
This course is designed for students who have expressed an interest in an entry level nursing course. This course meets Title 22 regulations for taking care of the geriatric population in a long term care setting, utilizing skills in basic care, emergency care and communication. The Nurse Assistant Pre-Certification training course lab consists of 135 hours of supervised clinical practice in long term facilities. This course prepares the student to take the California State Certification Exam to become a Certified Nurse Assistant (CNA). After obtaining the state certification, the student may find employment in the acute care and/or long term care settings. The California Department of Public Health requires that students must be concurrently

enrolled in both NHSN 050 and NHSN 050L, and pass both courses together, they cannot be taken individually.

Hours: 0 Lecture. 135 Lab.

**NHSN 051**  
**CNA Acute Care Training Course**  
**Units:** 0

**Prerequisite:** NHSN 050 and NHSN 050L or California State Nurse Assistant Certification

**Corequisite:** NHSN 051L

**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, READ 043 or appropriate placement

This course is designed for students who are Certified Nurse Assistants that wish to learn the basic nursing skills and duties that apply to the acute care hospital setting. Specialized acute care areas, such as medical/surgical, orthopedics, pediatrics, and obstetrics, will be emphasized. The CNA Acute Care Training Course consists of 27 hours of lecture content. Topics covered include communication, patient observation skills, reporting and recording training, and reinforcement of Certified Nurse Assistant basic-care procedures. The Division of Health Science and Nursing requires that students be concurrently enrolled in both NHSN 051 and NHSN 051L, and successfully complete both courses together. They cannot be taken individually.

Hours: 27 Lecture. 0 Lab.

**NHSN 051L**  
**CNA Acute Care Training Course Lab**  
**Units:** 0

**Prerequisite:** NHSN 050 and NHSN 050L or California State Nurse Assistant Certification

**Corequisite:** NHSN 051

**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, READ 043 or appropriate placement

This course is designed for students who are Certified Nurse Assistants that wish to learn the basic nursing skills and duties in the acute care hospital setting with additional emphasis on the specialized acute care areas such as medical/surgical, orthopedics, pediatrics and obstetrics. The Certified Nurse Assistant Acute Care course lab consists of 81 hours of clinical practice alongside a clinical employed CNA in an acute care facility with faculty daily/weekly monitoring. This course includes communication, patient observation, reporting and recording training as well as reinforcement of Certified Nurse Assistant basic-care procedures. The Division of Health Science and Nursing requires that students be concurrently enrolled in both NHSN 051 and NHSN 051L, and successfully complete both courses together. They cannot be taken individually.

Hours: 0 Lecture. 81 Lab.

**NHSN 052**  
**Home Health Aide Training Course**  
**Units:** 0

**Enrollment Requirement: Nurse Assistant Pre-Certification Training Course/California State Certification Corequisite:** NHSN 052L

**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, MATH 020 or MATH 020C or appropriate placement, READ 043 or appropriate placement  
This course is designed for students who are Certified Nurse Assistants that wish to learn how to provide personal care in the home care setting for those who are unable to do it for themselves and/or promote the recovery, safety and comfort of the patient. Additional emphasis on rehabilitative nursing care, family relationships and the impact of long-term illness on the family as well as the client will be included. The Home Health Aide training course consists of 27 hours classroom instruction. This course meets title 22 regulations for Home Health Aides training programs. The California Department of Public Health requires that students must be concurrently enrolled in both NHSN 052 and NHSN 052L, and pass both courses together, they cannot be taken individually.  
Hours: 27 Lecture. 0 Lab.

**NHSN 052L  
Home Health Aide Training Course  
Lab**

**Units:** 0  
**Enrollment requirement: Nurse Assistant Pre-Certification Training Course/California State Certification Corequisite:** NHSN 052

**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, MATH 020 or MATH 020C or appropriate placement, READ 043 or appropriate placement  
This course is designed for students who are Certified Nurse Assistants that wish to learn how to provide personal care in the home care setting for those who are unable to do it for themselves and/or promote the recovery, safety and comfort of the patient. Additional emphasis on rehabilitative nursing care, family relationships and the impact of long-term illness on the family as well as the client will be included. The Home Health Aide training course lab consists of 54 hours of supervised clinical practice in either the Acute Care or Skilled Nursing facility. This course meets the Title 22 regulations for Home Health Aides training programs. The California Department of Public Health requires that students must be concurrently enrolled in both NHSN 052 and NHSN 052L, and pass both courses together. They cannot be taken individually.  
Hours: 0 Lecture. 54 Lab.

## Science

**NSCI 041  
Basic Anatomy for Health Care**

**Units:** 0  
This course provides a basic overview of the structure and systems of the human

body. Students are introduced to the body structures and functions of integumentary, musculoskeletal, nervous, sensory, endocrine, circulatory, lymphatic, respiratory, digestive, and genitourinary systems. The course covers the various ways by which human body structures maintain normal, healthy functions and includes an introduction to anatomical and physiological functions related to various disorders and diseases in each body system. This course does not satisfy the human anatomy requirement for credit.  
Hours: 48 Lecture. 0 Lab.

## Vocational

**NVOC 018  
ACEDD-GIS Skills Development**

**Units:** 0  
This course complements the CIV, ARCH, ENGT, LAND and GIS lab and lecture courses and is designed to provide an additional opportunity for students to practice concepts covered in the corequisite courses and enhance their board drafting and CADD skills for work place productivity. These instructional activities are not available in the regular lecture / lab course and are not required for the grade in the corequisite course.  
Hours: 0 Lecture. 1-400 Lab.

**NVOC 021  
OSHA 10 for General Industry**

**Units:** 0  
**Advisory:** READ 021  
This course is intended for the individual who needs an overview and/or certification of OSHA safety standards for general Industry workplaces. This course will focus on OSHA's role in ensuring safe workplaces through hazard awareness and training while providing an overview of safety standard topics such as emergency action plans, fire protection and prevention, material handling, machine guarding, electrical safety, and walking-working surfaces. Upon successful completion of this course and meeting attendance requirements, the student will receive a Department of Labor 10-hour OSHA Training Card.  
Hours: 14-18 Lecture. 0 Lab.

**NVOC 027  
OSHA 10 for Construction Trades**

**Units:** 0  
**Advisory:** READ 021  
This course is intended for the individual who needs an overview and/or certification of OSHA safety standards for the construction workplace. This course will focus on hazard awareness while providing an overview of topics such as fire protection and prevention, material handling, hand and power tools, welding safety, electrical safety, and fall protection. Upon completion of this course and meeting attendance

requirements, the student who completes the course will receive a 10-hour Department of Labor (DOL) OSHA Certification Card.  
Hours: 14-18 Lecture. 0 Lab.

**NVOC 059  
Introduction to Welding Processes**

**Units:** 0  
**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, READ 043 or appropriate placement  
This is an introductory class designed to familiarize the student with several welding processes that are currently used in the welding and metal fabrication industry. This course offers an overview and basic introduction to the theory and practice of a variety of welding and metal cutting methods. This course will emphasize safety, theory, procedure, and practical skill development.  
Hours: 18 Lecture. 54 Lab.

**NVOC 060  
Semi-Automatic Welding Processes**

**Units:** 0  
**Advisory:** NVOC 059, WELD 040 or READ 043 or appropriate placement  
This course is intended for the student who wants to progress to an intermediate level of welding processes and further their skills in wire-fed, semi-automatic welding methods and techniques. This course emphasizes skills in gas metal arc welding (GMAW) and flux cored arc welding (FCAW). The course also focuses on safety, theory, characteristics and settings for power supplies and wire feeding units, electric current settings, electrode identification and selection, welding positions, and welding of ferrous and non-ferrous metals. Special emphasis will be placed on developing proficiency and speed for high volume production applications.  
Hours: 36 Lecture. 108 Lab.

**NVOC 061  
Production Welding Techniques**

**Units:** 0  
**Advisory:** WELD 045, READ 043 or appropriate placement  
This is an intermediate level course focused on welding techniques used in high-volume production manufacturing environments. Students gain proficiency using pulsed-arc & non-pulsed-arc gas metal arc welding (GMAW) and gas tungsten arc welding (GTAW) processes on carbon steel, stainless steel, and aluminum materials. Correct use of welding fixtures, positioners, and other auxiliary equipment are covered. Emphasis is placed on using shop safety in addition to developing proper working procedures.  
Hours: 36 Lecture. 108 Lab.

**NVOC 069  
Introduction to Gas Tungsten Arc Welding**

**Units:** 0  
**Advisory:** NVOC 059 or WELD 040, READ 043 or appropriate placement

This course introduces the principles and practices of gas tungsten arc welding (GTAW), including setup/use of GTAW equipment and safe use of tools and equipment. Instruction and practice is provided for gaining proficiency welding carbon steel, stainless steel, and aluminum weld joints in the flat and horizontal positions. Fundamentals of the GTAW process, correct consumables, equipment, and pre-weld preparation will be covered.  
Hours: 36 Lecture. 108 Lab.

#### **NVOC 070**

##### **Advanced Gas Tungsten Arc Welding Units: 0**

**Advisory:** WELD 065 or NVOC 069, READ 043 or appropriate placement  
This course provides further advancement of knowledge and skills in gas tungsten arc welding (GTAW). Emphasis is placed on developing proficiency in welding carbon steel, stainless steel, and aluminum weld joints in the vertical and overhead position. This course exposes students to using positioners, welding fixtures, and tooling commonly used in the workplace. Preparation for welding certification is covered.  
Hours: 36 Lecture. 108 Lab.

#### **NVOC 071**

##### **Basic Electric Arc Welding Units: 0**

**Advisory:** ENGL 035 or ENLA 100 or appropriate placement, READ 043 or appropriate placement  
This course is intended for the student who wants to progress to a basic level of welding processes and further their skills in manual and semi-automatic electric arc welding methods and techniques. This course emphasizes skills in Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). The course also focuses on safety, theory, characteristics and settings for power supplies and welding units, electric current settings, electrode identification and selection, welding positions, and welding of ferrous and non-ferrous metals. Special emphasis will be placed on developing proficiency and speed for high volume production applications.  
Hours: 18 Lecture. 54 Lab.

#### **NVOC 072**

##### **Manual Electric Arc Welding Processes Units: 0**

**Advisory:** NVOC 059 or WELD 040, READ 043 or appropriate placement  
This course is intended for the student who wants to progress to an intermediate level of welding processes and further their skills in manual electric arc welding methods and techniques. This course emphasizes skills in shielded metal arc welding (SMAW) and gas tungsten arc welding (GTAW). The course also focuses on safety, theory, characteristics and settings for power

supplies and welding units, electric current settings, electrode identification and selection, welding positions, and welding of ferrous and non-ferrous metals. Special emphasis will be placed on developing proficiency and speed for high volume production applications.  
Hours: 36 Lecture. 108 Lab.

#### **NVOC 075**

##### **Certification Welding I Units: 0**

**Advisory:** NVOC 072 or WELD 055, READ 043 or appropriate placement  
This course is an advanced course offering specialized instruction necessary for passing the City of Los Angeles Department of Building & Safety (LADBS) certified welder performance examinations. Emphasis will be placed on building skills in shielded metal arc welding (SMAW), flux cored arc welding (FCAW), and gas metal arc welding (GMAW) as applicable to acquire LADBS certified welder classifications in structural steel, light gage steel, and structural aluminum. Safety, welding codes, welding procedures and techniques, inspection requirements, nondestructive testing, and destructive testing will be covered. This course may be repeated once for certification or licensure standards, only by permit from the division.  
Hours: 36 Lecture. 108 Lab.

#### **NVOC 080**

##### **Certification Welding II Units: 0**

**Advisory:** NVOC 072 or WELD 055, READ 043 or appropriate placement  
This course is intended for the student who wants to progress to an advanced level of welding processes and certification. This course offers specialized training and instruction which are necessary to take and pass the written test portion of the City of Los Angeles Department of Building & Safety (LADBS) Certified Welder Examination. This course emphasizes specific skills in shielded metal arc welding (SMAW), flux cored arc welding (FCAW), and gas metal arc welding (GMAW) as it applies to certification in structural steel, light gage steel, and structural aluminum. The course also focuses on safety, welding codes, test preparation, procedures, and destructive testing. Special emphasis will be placed on developing proficiency in order to successfully pass the LADBS exam. This course may be repeated once for certification or licensure standards, only by permit from the division.  
Hours: 36 Lecture. 108 Lab.

#### **NVOC 138**

##### **Engineering Careers & Applications Units: 0**

**Advisory:** READ 043 or appropriate placement  
This course is for all students interested in the career field of Engineering

Design Drafting. Engineering Careers and Applications will explore the career opportunities and training requirements in the field of engineering and engineering technology. Topics will include the history of engineering, careers in engineering, ethics and responsibilities of the engineer, communicating and problem solving.  
Hours: 27 Lecture. 36 Lab.

#### **NVOC 140**

##### **Civil Drafting Fundamentals Units: 0**

This course is for all students interested in the career field of Civil Design Drafting and Civil Engineering. The course is study of civil design drafting practices and the preparation of drawings used in the civil engineering field. Students will use Computer Aided Drafting (CADD) software to complete projects relating to interpretation of survey data, profiles and cross sections, land subdivision, site and grading plans, underground utilities and structures, concrete and structural detailing.  
Hours: 36 Lecture. 72 Lab.

#### **NVOC 150**

##### **AutoCAD for Basic CADD Applications Units: 0**

This course is for students preparing for high technology careers who need the skills necessary to function as an entry level CADD operator or to apply CADD to specific disciplines of mechanical and architectural design, manufacturing, illustration and engineering related documents. An overview of computer graphics and CADD (Computer Assisted Design and Drawing) utilizing the latest release of AutoCAD software will be provided. Students will produce 2D orthographic, isometric, and basic 3D models solutions of mechanical and architectural applications.  
Hours: 54 Lecture. 54 Lab.

#### **NVOC 170**

##### **Microstation for Basic CADD Applications Units: 0**

This course is for students preparing for high technology careers who need the skills necessary to function as an entry level CADD operator or to apply CADD to specific disciplines of mechanical and architectural design, manufacturing, illustration and engineering related documents. An overview of computer graphics and CADD (Computer Assisted Design and Drawing) utilizing the latest release of MicroStation software will be provided. Students will produce 2D orthographic, isometric, and basic 3D models solutions of mechanical and architectural applications.  
Hours: 54 Lecture. 54 Lab.

#### **NVOC 200**

##### **Intermediate AutoCAD for Design and Production Units: 0**

This course is for students pursuing degrees or certificates in the

Architecture and Engineering Design Drafting Program and for those who wish to enhance their AutoCAD skills for workplace productivity. The course is an intermediate application study in computer aided design, drafting, and graphics using the latest revisions of AutoCAD. Combined with previously learned technical drafting conventions and basic AutoCAD operational skills, students will use AutoCAD to produce detailed drawings that involve model-space and paper-space, 2D and 3D objects, block attributes and viewport scales. Emphasis will be placed on working with multiple drawing files using external files to create mechanical, architectural and civil projects.

Hours: 45 Lecture. 54 Lab.

#### **NVOC 241**

##### **Civil Engineering Drafting & Design** **Units: 0**

This course is for all students interested in the career field of Civil Design Drafting and Civil Engineering. Civil Drafting and Design is an intermediate level class in which the practices and the preparation of drawings, pertaining to the civil engineering field, will be expanded to include the development of maps and drawings used for transportation, site development, grading and drainage and road alignment. The student will use Computer Aided Drafting (CADD) to complete the above mentioned projects. Other topics to be covered will include specifications, site details for utilities and underground piping, structural plans and integration of Geographic Information Systems (GIS).

Hours: 36 Lecture. 72 Lab.

#### **NVOC 245**

##### **Civil Engineering Design & Modeling** **Units: 0**

This course is for all students interested in the career field of Civil Design Drafting and Civil Engineering. Civil Design & Modeling is an advanced level class which includes design analysis and the preparation of drawings used in the civil engineering field. The student will use civil engineering software, such as In-Roads and Land Desktop to design, analyze and develop projects relating to transportation, site development, grading, drainage and road alignment and alternatives. Other topics to be covered are terrain modeling, surface editing, alignment editing, plan, profile, cross-sections, earthwork computations and site planning design.

Hours: 36 Lecture. 72 Lab.

#### **NVOC 250**

##### **Parametric Modeling 3D Applications** **Units: 0**

This course presents advanced applications of 2D and 3D Computer Aided Design Drafting (CADD) and an introduction to parametric modeling and rapid prototyping utilizing the latest releases of Autodesk Inventor series, SolidWorks, and other parametric modeling software to produce solutions for mechanical applications. Topics covered will benefit all students in areas of study related to Engineering, Drafting, Design and Computer Graphics. Course emphasis is given to CADD generated three dimensional graphics using wire frame, surface modeling, and parametric solids. This course may be taken once for credit towards the major and repeated 2 times to enhance student skills and proficiency levels.

Hours: 54 Lecture. 54 Lab.

#### **NVOC 260**

##### **Advanced Architecture Using Revit and 3D Software** **Units: 0**

This course is for students pursuing an advanced study of BIM (Building Information Modeling) applications as they relate to architecture and the AEC industry (Architecture, Engineering, Construction). Utilizing the latest releases of 3D design software such as Revit and AutoCAD Architecture and previously learned technical and architectural drafting conventions, students will produce two and three dimensional BIM generated architectural drawings and 3D virtual models. This course benefits all students studying Architecture, Civil, Engineering of all types, Drafting, Design and Computer Graphics. High technology skills which are necessary to function as a designer or CADD Drafter are emphasized.

Hours: 54 Lecture. 54 Lab.

#### **NVOC 261**

##### **Revit for Advanced BIM Architectural, Structural and MEP Applications** **Units: 0**

Advanced BIM (Building Information Modeling) applications extends the fundamentals of the Arch 260 class to include Structural, Mechanical, Electrical and Plumbing extensions of the Autodesk Revit Building software. Students will work on both group and individual projects to create and present three-dimensional representation of architectural solutions. Students will also learn the basic process and workflow in creation of Revit Families for use in building models.

Hours: 54 Lecture. 54 Lab.

#### **NVOC 270**

##### **SolidWorks for 3D Modeling and Prototype Applications** **Units: 0**

This course presents an intensive study in 3D computer graphics and CADD (Computer Assisted Design and Drafting) utilizing the latest release of SolidWorks Software. This course benefits all students in areas of study related to Engineering, Drafting, Design and Computer Graphics. Students will produce three dimensional parametric computer generated virtual models incorporating mechanical design refinements. The course emphasizes high technology skills which are necessary to function as a design professional to apply 3D design graphics technology to specific disciplines of mechanical engineering, machine drafting and design, manufacturing, animation, modeling and illustration. Students will be introduced to a variety of means to directly produce prototype models from CADD generated solid geometry.

Hours: 54 Lecture. 54 Lab.

#### **NVOC 280**

##### **Advanced MicroStation for CADD & BIM Applications** **Units: 0**

This course is for students pursuing an advanced study in MicroStation 3D parametric CADD (Computer Assisted Design and Drafting) and the BIM (Building Information Modeling) approach to building design using Bentley Architecture. Students will apply previously learned drafting conventions to produce two and three dimensional CADD and BIM generated mechanical and architectural drawings and virtual design models. This course benefits all students studying Architecture, Civil, Engineering of all types, Drafting, Design and Computer Graphics. High technology skills which are necessary to function as a designer or CADD Drafter are emphasized.

Hours: 54 Lecture. 54 Lab.

#### **NVOC 300**

##### **Refinery and Petroleum Safety Overview** **Units: 0**

##### **Enrollment restricted to State Indentured Carpenter Union Apprentices**

This course will provide recognized credentials for workers in the refinery and petroleum industry. The training will emphasize Cal-OSHA safety measures including toxicology, hazard communication, and confined space work. Human performance methodologies will be applied to trade related hazards specific to this industry. An in depth discussion and overview of the petroleum and refining process will be conducted.

Hours: 20 Lecture. 0 Lab.



# 14 Administrators

## ADMINISTRATION

### Flores, Marilyn

#### Superintendent/President

B.A., University of California, Riverside;  
M.A., University of California, Los Angeles;  
Ph.D., University of California, Riverside

### Dixon-Peters, Earic

#### Vice President, Student Services

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M.Ed., Azusa Pacific University; Ed.D.,  
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### Kibui, Stephen

#### Vice President, Finance & Business

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Cumberlands

### Kuperman, Tina

#### Vice President, Human Resources

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M.S.W., J.D., University of Michigan

### Miller, Don

#### Vice President, Academic Affairs

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## DEANS

### Brandt, Katherin

#### Interim Dean, Health Science and Nursing

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University

### Brown, Nedra

#### Dean, Kinesiology, Dance, and Athletics/Athletic Director

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#### Dean, Institutional Research and Planning

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### Griffiths, Heba

#### Dean, Student Support Services

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### Kruizenga, Alicia

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University

### Mecom, Alice

#### Dean, Communications and Languages

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#### Dean, Mathematics, Sciences and Engineering

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## A

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## E

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## G

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**H**

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## L

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**Lee, Young**  
**Librarian**  
B.A., University of California, Berkeley; J.D., California Western School of Law; M.L.S., San Jose State University

**Leung, Allen**  
**Professor of Chemistry**  
Ph.D., University of Utah

**Lewis, Cynthia**  
**Professor of Art History**  
B.A., Pomona College; M.A., California State University, Fullerton; Ph.D. University of California, Riverside

**Lindy, David**  
**Professor of Electrical/Electronics Technology**  
A.A., Mt. San Antonio College; B.S., DeVry University

**Littrell, Mark**  
**Professor of Mathematics**  
B.A., Whittier College; M.S., California State University, Long Beach

**Liu, Jeannie**  
**Professor of Accounting**  
A.S., Community College of Southern Nevada; B.S., University of Las Vegas, Nevada; M.B.A. University of California, Irvine

**Liu, Shin**  
**Professor of Computer Science/Information Systems**  
B.A., National Taiwan College of Education; M.S., University of Texas; D.B.A., Argosy University

**Livingston, Jannine**  
**Associate Professor of Music**  
B.M., M.M., University of Southern California

**Llerena, Lydia**  
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A.A., Long Beach City College; B.A., M.A., California State University, Long Beach

**Lopez-Alvarado, Katherine**  
**Professor of Nursing**  
A.A., A.S., Citrus College; B.S.N., Azusa Pacific University; M.S.N., University of Phoenix

**Low, Sandra**  
**Professor of Studio Art, Painting and Drawing**  
B.A., University of California, Berkeley; M.F.A., University of Southern California

**Lynch, Kelly**  
**Professor of Child Development/RHCLA Coordinator**  
A.A., Pasadena City College; B.A., M.A., California State University, Los Angeles

**Lynch, Sheila**  
**Professor of Fine Arts**  
B.A., California State University, Fullerton; M.F.A., Claremont Graduate University

## M

**Madrigal, Ea**  
**Associate Professor of History**  
B.A., M.A. University of Nevada, Las Vegas; Ph.D., University of California, Riverside

**Markossian, Marina**  
**Associate Professor of English**  
B.A., Pepperdine University; M.A., Chapman University

**Martinez, Angelica**  
**SSSP General Counselor**  
B.A., Mills College; M.S., University of La Verne

**Mason, Don**  
**Associate Professor, Administration of Justice**  
B.S., Southern Illinois University; M.S. Capella University

**Mata, Moises**  
**Coordinator of Learning Assistance Center/Professor of English as a New Language**  
A.A., East Los Angeles College; B.A., California State University, Dominguez Hills; M.A., California State University, Long Beach

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**Professor of English**  
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**Mayer, Krysia**  
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**Millan, Jose**  
**Instructor of Drafting**  
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**Miller, Gregory**  
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B.A., Whittier College; M.A., University of Southern California; M.A., University of California, Riverside

**Miller, Robert**  
**Professor of Ceramics**  
B.F.A., Otis Parsons Art Institute; M.F.A., University of California, Los Angeles

**Mindes, Aimee**  
**Professor of Geography**  
B.A., University of California, Santa Barbara; M.A., California State University, Long Beach

**Mitchell, Carley**  
**Professor of Administration of Justice**  
B.S., Pepperdine University

**Moe, Sondra**  
**Professor of Child Development**  
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**Montiel, Gerson**  
**Instructor of Mathematics**  
B.S., California State University, Long Beach; M.S., Walden University; M.S., University of West Florida

**Mora, Juana**  
**Professor of Political Science**  
A.A., Mt. San Antonio College; B.A., M.A., California State University, Northridge; M.A., Claremont Graduate University; Ph.D., Claremont Graduate University

**Morales, Judy**  
**Counselor**  
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## N

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A.A., A.S., Mt. San Antonio College; B.S., California State University, Los Angeles; M.S., California State University, Northridge

## O

**Obenberger, Sandra**  
**Instructor of Health Science & Nursing**  
A.S., Cypress College; B.S., M.S, University of Phoenix

**O'Brien, Katherine**  
**EOPS Counselor/Professor**  
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**Okamoto, Tyler**  
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A.A., Río Hondo College; B.A., M.A., California State Polytechnic University, Pomona

**Olson, Eric**  
**Instructor of Automotive Technology**  
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**Ortiz, Amelia**  
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**Osman, Daniel**  
**Professor of English**  
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M.A., California State University, Los Angeles

## P

**Padgett, Vernon**  
**Professor of Psychology**  
B.A., California State University, San Bernardino; M.A., California State University, Long Beach; M.A., Ph.D., Ohio State University

**Perry, Abbie**  
**Assistant Professor of History**  
A.A., San Bernardino Valley College;  
B.A., University of California, Riverside;  
M.A., California State University, Los Angeles

**Pfeiffer, Jill**  
**Professor of Anthropology**  
B.A., University of California, Los Angeles;  
M.A., California State University, Los Angeles

**Pichardo-Diaz, Doralí**  
**Counselor/Professor**  
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**PiersonGeiger, Kenn**  
**Professor of English**  
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**Pilati-Corselli, Michelle L.**  
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M.A., Ph.D., University of California Los Angeles

**Pitassi, Matthew**  
**Associate Professor of Mathematics**  
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**Preston, Theodore**  
**Professor of Philosophy**  
B.A., Claremont McKenna College;  
M.A., California State University, Long Beach; Ph.D., University of California, Riverside

**Puga, Jr. Gilbert**  
**Professor of Speech**  
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## R

**Ramalho, Kaitlyn**  
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**Ramirez, Elizabeth**  
**Articulation Officer/Counselor/Associate Professor**  
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**Reyes, Dianna**  
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**Rhee, Joseph**  
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**Rhodes, Angela**  
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**Ribaya, Jeronimo**  
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**Rifino-Juarez, Melissa**  
**Professor of Sociology**  
B.A., M.A., California State University Fullerton; M.S., Bellevue University

**Ríos, Rodolfo**  
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**Rivas, Claudia**  
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M.S., University of Southern California;  
M.L.I.S., San Jose State University

**Rivera, Mary**  
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B.A., M.S., California State University, Long Beach

**Roberts, Warren**  
**Professor of GIS/CAD**  
M.L.A., University of Oregon

**Rodriguez, Jose I.**  
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**Ryan, Mutsuno**  
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## S

**Saenz, Marisela**  
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**Salazar, Barbara**  
**Professor of English**  
M.A., San Francisco State University;  
B.A., University of California, Berkeley

**Salazar, Michael**  
**Professor of Kinesiology & Athletics/Head Coach Baseball**  
M.Ed., Azusa Pacific University

**Sapra, Aditi**  
**Instructor of Sociology**  
B.A., University of California, Irvine; M.A., California State University, Los Angeles

**Schleicher, Matthew**  
**Associate Professor of Theatre Arts**  
B.A., M.F.A., California State University, Fullerton

**Schulz, Arianne**  
**Instructor of Anthropology**  
B.S., California State University, San Marcos;  
M.A., Ph.D., University of California, Riverside

**Senk, Jodi**  
**Professor of Kinesiology/Fitness Specialist Certificate**  
B.S., M.S., University of Connecticut; Ed.D., Pepperdine University



**Sigala, Carol Ann**

**Professor of Child Development**

B.A., University of California, Los Angeles; M.S., Pacific Oaks; M.S.W., Ph.D., University of Southern California

**Silva, Diego**

**Counselor/Coordinator CalWORKs**

B.A., California State University, Los Angeles; M.A., California Polytechnic State University, San Luis Obispo

**Sloniger, Wells**

**Professor of Reading**

B.A., Pepperdine University, Malibu; M.S., California State University, Fullerton

**Smith, Kevin**

**Professor of Psychology**

B.S., B.A., M.A., University of California, Irvine; Ph.D., University of California, Irvine

**Smith, Stephen**

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**Sotelo, Angela**

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**Sotelo, Francisco**

**Instructor of Psychology**

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B.S., M.S., California State Polytechnic University, Pomona; Ph.D. Trident University International

**Spieler-Persad, Gisela**

**Coordinator MESA/Professor of Mathematics**

M.A., M.S., Ph.D., University of Southern California

**Stamps, Shellie**

**Instructor of Ethic Studies**

B.A. San Diego State University; M.A., San Francisco State University

**Stevens-Gandara, Erin Miyo**

**Associate Professor of Digital Photography**

B.F.A. California College of Arts and Crafts; M.F.A., California Institute of the Arts

**Stoian, Razvan**

**Instructor of Nursing**

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## T

**Tanaka-Hoshijo, Jennifer**

**Professor of Kinesiology and Athletics/ Head Coach Women's Soccer**

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**Tang, Suzanne**

**Professor of Nursing**

B.S.N., University of San Francisco; M.S.N., California State University, Fullerton; D.N.P., California State University, Fullerton

**Thurn-Tamayo, Barbara**

**Instructor of Nursing**

A.S., Pasadena College; B.S., M.S. California State University, Dominguez Hills; D.N.P. Frontier Nursing University

**Tieu, David**

**Counselor**

B.A., California State Polytechnic University, Pomona; M.S. California State University, Long Beach

**Tomory, Stephen C.**

**Professor of Automotive Technology**

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**Tovmasian, Grant**

**Associate Professor/Coordinator Speech/Forensics (Debate)**

B.A., M.A., California State University, Los Angeles

**Truong, Irene**

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B.A., California State University, Long Beach; M.L.I.S., University of California, Los Angeles

## U

**Urquidi, Bianca**

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B.A., Whittier College; M.S., Indiana University

## V

**Vaca, Christian**

**Assistant Professor of Physics**

B.S., M.S., Ph.D., University of California, Los Angeles

**Valdivia, Irma**

**Professor of History**

B.A., University of California, Santa Barbara; M.A., California State University, Los Angeles

**Valladares, Diana**

**Associate Professor/General Counselor**

B.A., M.S., California State University, Northridge

**Vazquez, Dana Marie**

**Professor of English/Coordinator, Study Abroad Program**

B.A., California State University, Chico; M.A., California State University, Sacramento; T.E.S.O.L., Certificate, University of California, Irvine; M.A., California State University, San Bernardino

**Velazquez, Ralph**

**Professor of English**

M.A., California State University, Long Beach

**Villanueva, Viviana**

**Counselor/Assistant Professor**

A.A., Long Beach City College; B.A., California State University, Dominguez Hills; M.A., University of San Diego

**Vu, Irene**

**Counselor/Associate Professor**

A.A., Santa Ana College; B.S., California State University, Fullerton; M.A., California State University, Dominguez Hills

**Vu, Nguyen**

**Professor of Mathematics**

M.S., University of Nebraska

## W

**Wallace, Gerald**

**Instructor of Fire Technology**

A.S., East Los Angeles College

**Waugh, Christine Counselor/**

**Coordinator Center for Career and Re-Entry Services/Associate Professor**

A.A., Citrus College; B.A., California State University, Fullerton; M.S., Azusa Pacific University

**Wheeler, George**

**Associate Professor of Music**

B.A., M.A., California State University, Long Beach; Ph.D., University of California, Irvine

## Y

**Young, Brian**

**Librarian/Assistant Professor**

B.S., California State University, San Bernardino; M.L.I.S., San Jose State University

**Young, Colin**

**Professor of Political Science**

B.A., University of California, Los Angeles; M.A., University of California, Santa Barbara

**Young, Marissa**

**Instructor of Business Management**

B.A., California State University, San Bernardino; M.B.A., Azusa Pacific University



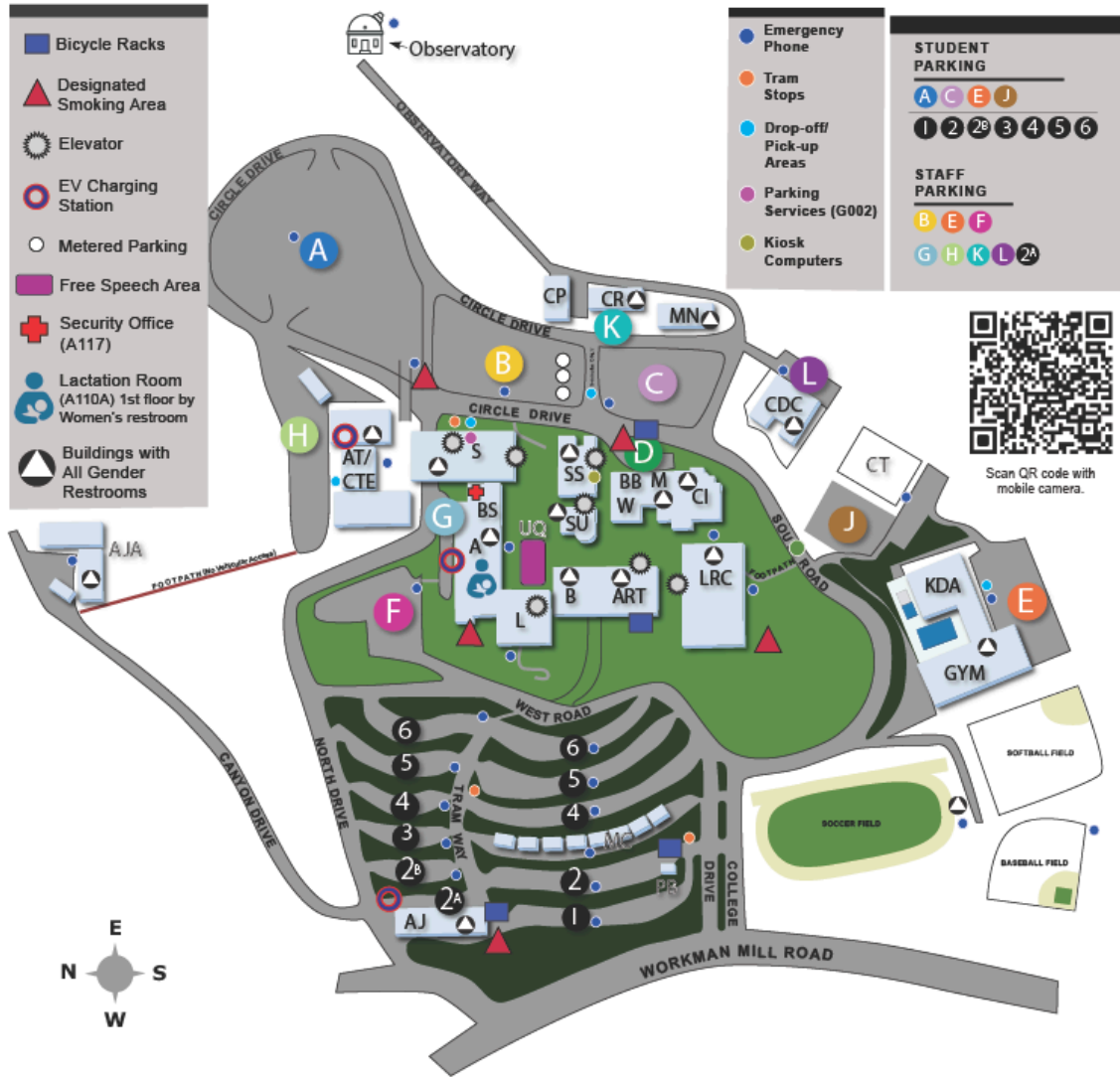
**Z**

**Zaro, Mariano**  
**Professor of Spanish**

M.A., University of Zaragoza (Spain);  
Ph.D., University of Granada (Spain)

# 16 Maps

## CAMPUS DIRECTORY



Rev. July 5, 2023

BUILDING LEGEND			
<b>A</b>	Administration	<b>BS</b>	Bookstore
<b>AJ</b>	Administration of Justice	<b>CI</b>	Campus Inn
<b>AJA</b>	Administration of Justice Annex	<b>CP</b>	Central Plant
<b>AT/CTE</b>	Applied Technology/ Career Technical Education	<b>CR</b>	Central Receiving
<b>ART</b>	Art	<b>CD</b>	Child Development Center
<b>B</b>	Business	<b>CT</b>	Courts (Tennis)
<b>BB</b>	Black Box Theater	<b>GYM</b>	Gymnasium
<b>L</b>	L Building	<b>LQ</b>	Lower Quad
<b>LRC</b>	Learning Resource Center	<b>M</b>	Music
<b>MC</b>	Modular Classrooms	<b>MN</b>	Maintenance
<b>O</b>	Observatory	<b>PB</b>	Information/Parking Booth
<b>KDA</b>	Kinesiology, Dance and Athletics	<b>S</b>	Science and Math
<b>SS</b>	Student Services	<b>SU</b>	Student Union
<b>UQ</b>	Upper Quad	<b>W</b>	Way Memorial Theater

## OFF SITE ADDRESSES AND MAPS

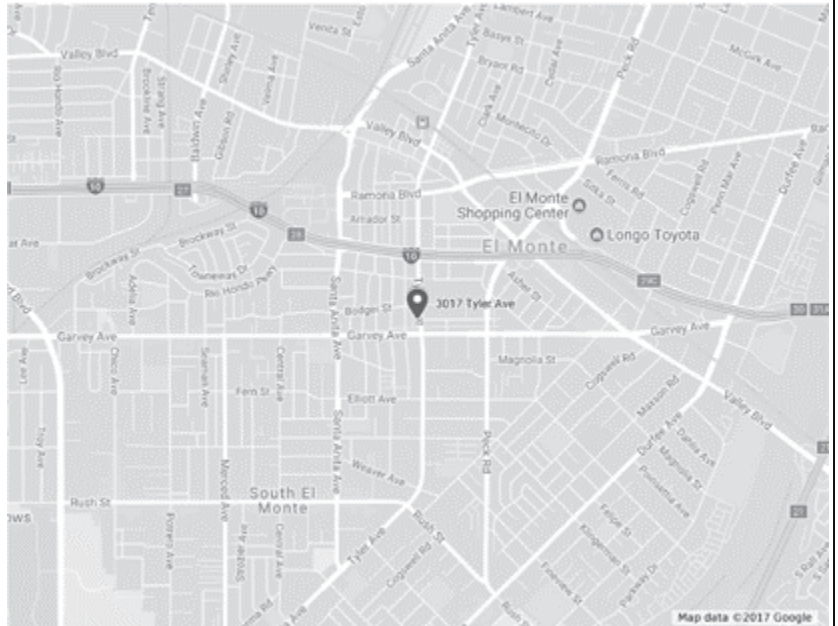
**El Monte Education Center**  
**3017 Tyler Avenue**  
**El Monte, CA 91731**  
**(626) 443-8932**

**DIRECTIONS:**

Go northeast on Workman Mill Rd. toward College Dr.  
Stay on Peck Rd.  
Peck Rd turns into N Durfee Ave.  
Turn left onto N Peck Rd/E. Rush St.  
Take the 1st left onto E Rush St.  
Take the 3rd right onto N Tyler Ave.

EMEC is on the left.

**Foothill Transit, Metro Bus Lines**  
**Please visit the EMEC site for more information.**

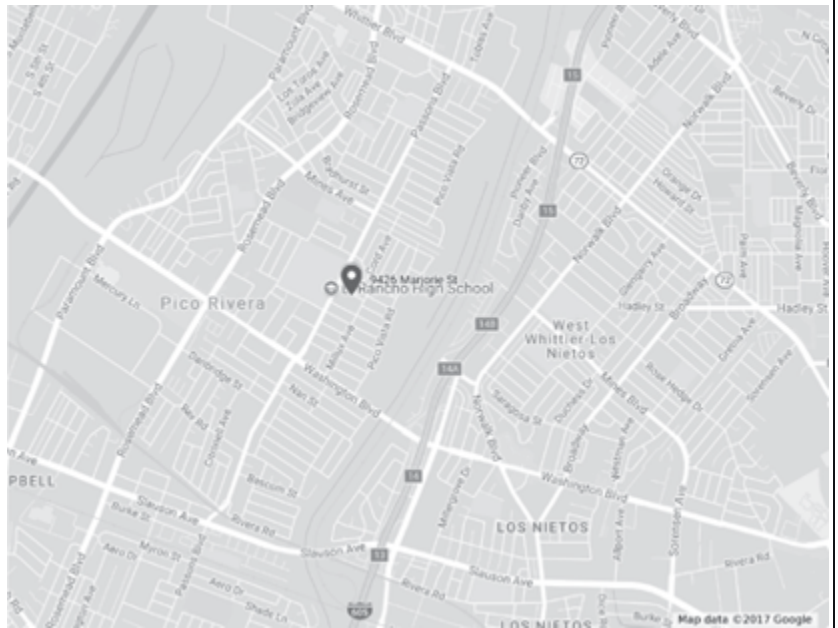


**Rio Hondo Educational Center at Pico Rivera**  
**9426 Marjorie St.**  
**Pico Rivera, CA 90660**  
**(562) 692-0921**

**DIRECTIONS:**

Go northeast on Workman Mill Rd. toward College Dr.  
Stay on Peck Rd.  
Turn right onto Rooks Rd.  
Merge onto I-605 S.  
Take the Washington Blvd. West exit.  
Turn right onto Washington Blvd.  
Turn right on Passons Blvd.  
Turn right on Marjorie St.  
The Pico Center is on the corner of Passons and Marjorie.  
(Across from El Rancho High School)

**Please visit the Rio Hondo website for more information.**



## OFF SITE ADDRESSES AND MAPS

**Santa Fe Springs Regional Training Center**  
**11400 Greenstone Avenue**  
**Santa Fe Springs, CA 90670**  
**(562) 941-4082**

**DIRECTIONS:**

Go northeast on Workman Mill Rd. toward College Dr.  
Go onto Peck Rd.  
Turn right onto Rooks Rd.  
Merge onto I-605 S.  
Take the Telegraph Rd exit, EXIT 12.  
Turn left onto Telegraph Rd.  
Turn right onto Bloomfield Ave.  
Bloomfield Ave. becomes Lakeland Rd.  
Turn left to stay on Lakeland Rd.  
Take the 1st right onto Greenstone Ave.  
Academy is on the left.

**Please visit the Fire Academy site for more information.**



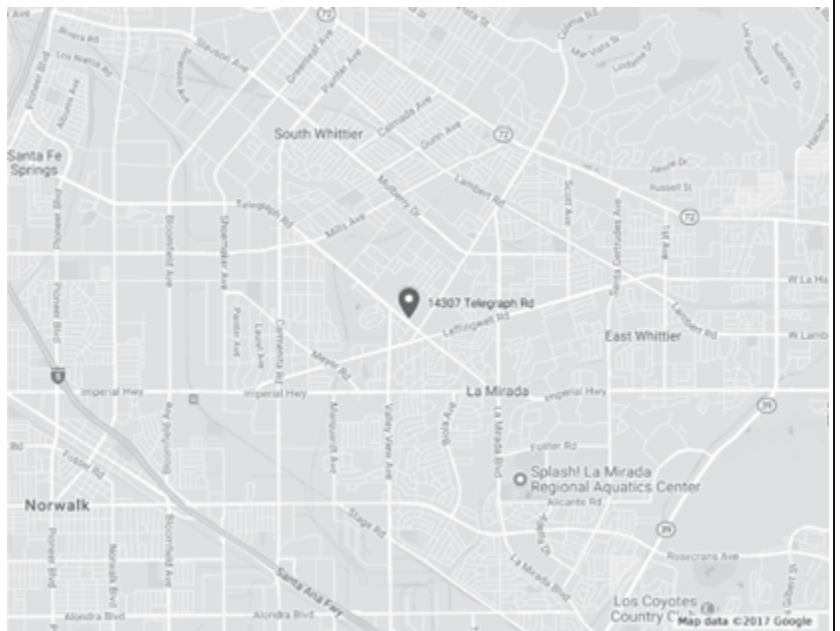
**South Whittier Education Center**  
**14307 E. Telegraph Road**  
**Whittier, CA 90604**  
**(562) 941-2356**

**DIRECTIONS:**

Go northeast on Workman Mill Rd. toward College Dr.  
Stay on Peck Rd.  
Turn right onto Rooks Rd.  
Merge onto I-605 S.  
Take the Telegraph Rd exit, EXIT 12.  
Turn left onto Telegraph Rd.  
Make a U-turn onto Telegraph Rd.  
SWEC is on the right.

**Metro Bus Lines, Sunshine Shuttle**

**Please visit the SWEC site for more information.**





## Contact Us

Address : 3600 Workman Mill Rd., Whittier, CA 90601-1699

Phone : (562) 692-0921

Website : [www.riohondo.edu](http://www.riohondo.edu)

