Accreditation

Western Association of Schools and Colleges Board of Governors, California Community Colleges
Rio 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 on page 8.

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 Rio Hondo Community College District Board of Trustees.

By virtue of Statute, authority is vested in the Rio 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 Rio 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. Students are advised to consult a counselor whenever questions or problems pertaining to academic programs arise.

Board of Trustees

Mary Ann Pacheco
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Gary Mendez
Vicky Santana
Madeline Shapiro
Melissa DeLeon
Student Member
Teresa Dreyfuss
Superintendent/President

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

Congratulations on making one of the most important decisions of your life by choosing to attend college. On behalf of the Rio Hondo College community, it is a pleasure to welcome you to our hilltop campus and educational sites with state-of-the-art facilities and a student-centered approach. Rio Hondo College offers a modernized, technologically advanced learning environment with instructional and student services facilities, including the Learning Resource Center, one-stop Student Services building, First-Year Success Center, El Monte Educational Center and South Whittier Educational Center. As part of our Student Success Initiative and Student Equity Plan, our faculty members, counselors, staff, and administrators are committed to helping every student reach their educational goals.

One of the tools we encourage students to frequently use is the 2015-2016 Catalog, as an educational guidepost. By becoming familiar with this Catalog early on, you will learn about the associate degrees leading to successful transfer, general education requirements and programs, career certificates and courses.

In addition, Rio Hondo College continues to lead the state and the nation in many high-demand career and technical programs such as automotive technology, environmental technology, geographic information systems (GIS), nursing, public safety, and fire technology.

Another tool for success is AccessRIO, our student information and registration system that provides efficient online access to email, grades, financial aid information, library systems and many other College resources.

We urge you to take advantage of the Student Success services and programs offered through the Counseling Center, Career Development Center, First-Year Success Center and Transfer Center. Students who meet with a counselor on a frequent basis, update their Educational Plan and use support services are more likely to graduate and transfer to four-year universities. Our Rio Hondo College counselors are here to support your journey to achieve Student Success!

Our student-centered campus also offers student support services to first-generation students, economically and educationally disadvantaged students, students with disabilities and veterans. In addition, we offer financial aid services, scholarships, student health services, as well as free tutoring.

We invite you to make the most of your time at Rio Hondo College by participating in co-curricular activities and in student life. The College fields 14 intercollegiate athletic teams, offers opportunities in dance, theater, music, visual arts performances, and debate competitions. Rio Hondo College is also home to an active student government that sponsors an array of clubs, interest groups and cultural events.

As a student, you also have access to one of the largest and best-equipped community college fitness centers in the country. The College’s 48,000 square-foot Physical Education Complex offers a new NCAA-sized pool, renovated fields and tennis courts.

As Superintendent/President, I welcome opportunities to engage our students. I look forward to personally greeting you on our Rio Hondo College campus.

Congratulations once again, and best wishes to you and your continued success.

Teresa Dreyfuss
Superintendent/President

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Administrators

ADMINISTRATION
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Vice President, Student Services ................................. Henry Gee
Vice President, Finance & Business ............................ Myeshia Armstrong

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Health Sciences ............................................................ Yngacio "Nash" Flores, Ed.D.
Career & Technical Education/ Instructional Operations ................................................................. Mike Slavich
Communications & Languages/Library ......................... Robert Holcomb, Ph.D.
Counseling & Student Success ..................................... Mike Munoz, Ed.D.
Health Sciences .............................................................. Deborah Chow
Institutional Research & Planning/Executive Director Rio Hondo College Foundation, Interim. ........................................ Howard Kummerman
Mathematics & Sciences ........................................... Vann Priest, Ph.D.
Kinesiology, Dance, and Athletics/Athletic Director ........... Steve Hebert
Public Safety .............................................................. Yngacio "Nash" Flores, Ed.D.
Student Affairs/District Compliance Officer .................... Loy Nashua, J.D.

ASSOCIATE DEAN
Public Safety .............................................................. Donald Mason
ASSISTANT DEAN
Student Success & Retention (Basic Skills), Interim ............ Barbara Salazar

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Contract Management & Vendor Services ......................... Timothy Connell
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Extended Opportunity Programs & Services/CARE ............ Heba Griffiths
Facilities Services ......................................................... James Poper
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Information Technology Services .............................. Gary Van Voorhis
Marketing & Communications ................................. Ruthie Retana
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Operations & Maintenance ........................................... George Lopez
Project Grant Manager, Interim ................................. Bruce Noble
Student Life & Leadership ........................................... Shaina Phillips
Student Success and Support Program, Interim Manager .................. Vanessa Chavez
TRIO Programs, Interim ............................................ Jasmine Lopez

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Basic Skills .............................................................. Sergio Guzman, Ed.D.
CalWORKs, Interim .................................................. Rosa Prado
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Chicano Studies ............................................................. Juana Mora
El Monte Education Center ...................................... Jodi Senk
English as a Second Language (ESL) ......................... Tyler Okamoto
Fire Technology ............................................................ Tracy Rickman
Fitness Center .............................................................. Kathy Pudelko
Flex/Staff Development ............................................. Katie O’Brien
Institutional Effectiveness Coordinator ....................... Lydia Gonzalez
Leadership Academy .................................................. Kelly Lynch
Learning Assistance Center ........................................ Vacant
Mathematics & Science Center .............................. George Wang
Pre-School Laboratory ................................................ Sondra Moe, Ph.D.
Psychological Services/Psychologist ....................... Dr. Denna Sanchez
South Whittier Educational Center ............................... Jennifer Fernandez, DPA
Speech/Forensic ......................................................... Libby Curiel
Student Health and Psychological Services .................. Dr. Denna Sanchez
Student Learning Outcomes ...................................... Adam Wattsman
Transfer Center ............................................................. Dianne Holcomb
Veterans Services ....................................................... Arely Castañeda
Online Education ........................................................ Colin Young
Weekend College ......................................................... Steve Hemenway
Weekend College ......................................................... Vik Hovsepian

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2 / Rio Hondo College

2015-2016 Catalog
Division/Department Listing

Admissions & Records
(562) 908-3415 or (562) 463-7639
- International Students Program

Division of Arts & Cultural Programs
(562) 908-3471
- Cultural Events Hotline: (562) 908-3492
- Cultural Programs
- Performing Arts
  - Music
  - Theater
- Visual Arts
  - Animation
  - Art History
- Ceramics
- Digital Art
- Photography
- Studio Art

Division of Behavioral & Social Sciences
(562) 463-7469
- Anthropology
- Chicano Studies
- Child Development/Education
- Economics
- History
- Human Services
- Humanities
- Philosophy
- Political Science
- Psychology/Drug Studies
- Sociology
- Support Programs
  - Foster Kinship Care Education and Independent Living Programs
  - Pre-school Laboratory

Division of Business
(562) 463-7359
- Accounting
- Business/Management/Marketing
- Computer Information Technology
- District Lab
- International Business
- Logistics

Division of Career & Technical Education
(562) 908-3460
- Advanced Transportation Technology Program (ATT)
- Apprenticeship: (562) 908-3448
- Automotive Collision Repair & Painting
- Automotive Technology
- Drafting/Architecture/Civil
  - Geographic Information Systems
- Electronics (Renewable/Green Energy)
- Heavy Equipment Technology
- Honda PACT Program
- Welding/Fabrication

Division of Communications & Languages
(562) 908-3429
- English & Literature
- English as a New Language (ENLA)
- English Writing Center
- ESL/Language Lab
- Languages (ASL, Chinese, Japanese, French, Spanish)
- Learning Assistance Center (LAC)
- Mass Communications/Journalism/Radio
  - El Paisano, elpaisanoonline.com, La Cima
- Reading & Study Skills
- Reading Lab
- Speech/Forensics
- Study Abroad

Division of Counseling & Student Success
(562) 908-3410
- Center for Career & Re-entry Services: (562) 908-3407
- Counseling Center: (562) 908-3410
- El Monte Promise: (562) 463-3159
- First Year Success Center: (562) 463-6650
- Puente: (562) 463-3207
- Student Success and Support Program — Non-Credit
- Transfer Center: (562) 463-4619

Division of Health Science & Nursing
(562) 908-3421
- Acute CNA
- Associate Degree Nursing
- Home Health Aide
- Licensed Vocational Nursing
- Nurse Assistant Pre-Certification Training

Division of Library
(562) 908-3417
- Archives
- Circulation
- Library: (562) 908-3417
- Production
- Reference
- Office of Student Success andRetention

Division of Mathematics & Sciences
(562) 908-3444 or 908-3472
- Biological Sciences
- Engineering
- Environmental Sciences
- Mathematics
- Math Science Center
- MESA/TRiO/SSS STEM
- Physical Sciences Department
  - Astronomy - Geology
  - Chemistry - Physical Science
  - Geography - Physics

Division of Kinesiology, Dance and Athletics
(562) 908-3409
- Athletics
- Dance
- Fitness Center: (562) 463-3461
- Kinesiology

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) 908-3408
- CalWORKs: (562) 463-7311
- Disabled Students Programs & Services: (562) 908-3420
- EOPS/Care: (562) 908-3423
- Student Health and Psychological Services: (562) 908-3438
- TRIO/SSS: (562) 436-3216

Division of Student Services
(562) 463-4693
- Assessment Center: (562) 463-7226
- Financial Aid, Scholarships and Veterans Services: (562) 908-3411
- Student Life & Leadership: (562) 908-3427
- Veterans Service Center: (562) 463-3370
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General Information About Rio Hondo College

History
The Rio 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 Rio 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 Rio Hondo as the name for the college. The name, long associated with the area surrounding the Rio 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, Rio 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, Rio Hondo enrolls approximately 20,000 students per semester.

Rio 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. The College is a Hispanic Serving Institution with over 70 percent of students identified as Hispanic/Latino/a and a total ethnic minority student population nearing 90 percent.

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 Rio Hondo seeking a variety of educational experiences. Rio 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 Rio Hondo College Foundation was established in 1992. The Foundation assists the college in meeting the needs of its students and community. The Foundation’s focus is to secure financial and community resources to support Rio Hondo College programs and services such as student scholarships, innovative educational projects, teaching and training support, and capital expenditures.

Vision
Rio Hondo College strives to be an exemplary California community college, meeting the learning needs of its changing and growing population and developing a state-of-the-art campus to serve future generations.

Mission
Rio Hondo College is committed to the success of its diverse students and communities by providing dynamic educational opportunities and resources that lead to associate degrees, certificates, transfer, career and technical pathways, basic skills proficiency, and lifelong learning.

Values Statement
As a teaching/learning community, we come together and strive to meet the needs, aspirations, and goals of our changing student population and communities. Since what we value forms the core of who and what we are, the college community—trustees, faculty and staff—recognizes the importance of openly and candidly expressing the college’s values. Rio Hondo College values the following:

1. Quality teaching and learning
   The college is dedicated to excellence in instruction and student services to develop the intellectual and personal competence of each student.
College is committed to preparing students to adapt to the demands of a multicultural society.

2. Student access and success
Rio Hondo College recognizes the individual worth and potential of every human being. Accordingly, the college offers an open access, comprehensive educational program to its students including basic skills, vocational education certificates and degrees, general education and transfer courses, and, for its community, economic development opportunities.

At Rio 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 including their own.

3. Diversity & Equity
Rio Hondo College remains committed to the diversity of students, faculty, staff, and management. Diversity can be defined in many ways including ethnicity, gender, sexual orientation, socioeconomic status, age, physical abilities, religious beliefs, learning styles, political beliefs, or other ideologies. Appreciation of diversity means the following:

- Recognizing that each individual is unique and understanding individual differences.
- Recognizing the things that people have in common despite being members of diverse groups.
- Creating a safe, positive, and nurturing environment that cultivates respect for what these differences are.
- Moving beyond simple tolerance to embracing and celebrating the rich dimensions of diversity as a way of coming together as a community with a common purpose.

The concepts of educational equity and student learning outcomes are central to the values of the College. Access to education and the opportunity for educational success for all students shall be provided, with particular efforts in regard to those who have been historically and currently under-represented. Education should prepare students to adapt to the demands of a multicultural society.

4. Fiscal Responsibility
Rio Hondo College recognizes the importance of maintaining a fiscally sound, efficient, and effective college operation. It uses its resources—human, facilities, and financial—to the optimum benefit of its students, community, and staff.

5. Integrity and Civility
We value integrity, honesty and respect in our actions and words.

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 - Rio 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 Rio 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, they have interests in, 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 Rio 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 Rio 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 Rio 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 Rio 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 Rio 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.

This College values open inquiry, and honors academic freedom.

This College strives to protect human dignity and individual freedom.

This 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.

This 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, Rio 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 Rio 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**

Rio 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**

Rio 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); Accredited Local Processing for “Fire Officer Certifications” - California State Fire Marshals office
- 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 California Association for Alcohol/Drug Educators
- 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 Health Services State of California.
- Automotive Programs: National Automotive Technical Foundation (NATEF) (Certified); California Automotive Business Coalition Automotive Technician Training Standards (ATTS) (Certified); California Smog Check Technician Training Institution (Certified).
Facilities

Art Gallery
The Rio 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 temporary 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 180, the Art Gallery Display Design course. 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. Call (562) 908-3471 for more information.

Black Box Theater
The Black Box Theater is located behind in the Campus Inn. With seating for approximately 80 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 Student Bookstore is operated as a service to the students. Required textbooks and supplies are available. Ninety percent of the commissions received from the bookstore goes to the Auxiliary Service Fund for student activities.

The Bookstore hours are listed on the bookstore web page, where books and merchandise can also be purchased.

Campus Inn Theater
The Campus Inn Theater is attached to the Music building, across from the Learning Resource Center. The Campus Inn Theater provides a flexible performance space with seating for approximately 125 people. It provides a smaller and more intimate space and is frequently used for student written and directed plays, as well as lectures and workshops. Performances are open to the public and are advertised in the College’s Cultural Events brochure from the Division of Arts and Cultural Programs. Call (562) 908-3471 for more information.

Rio Café
The Rio Café, located on the first floor of the Student Union, offers great tasting and popular grill menu items, a variety of entrees, a deli section with sandwiches, a salad bar, and assorted beverages and snacks. Enjoy your favorite Starbucks Lattes, Frappuccino Blended Beverages, Coffees and Teas at our Coffee Bar. Hours are listed at: www.riohondodining.com

Child Development Center/Pre-School Laboratory
The Rio Hondo Pre-School Laboratory located at the Child Development Center provides quality pre-school services to the children of Rio Hondo students, staff, and community. Children must be between the ages of 3 and 5 years old and are required to be toilet trained. The Center is supported by state funds and parent fees. 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 Rio Hondo website (click on Student Services and then Child Care). Rio 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 Rio Hondo College’s off-campus satellite facilities. It is located at 3017 Tyler Avenue, El Monte, CA 91731. There are classrooms and a computer resource lab. Regular college credit courses are offered at EMEC, including basic skills classes as well as general education courses for graduation and transfer to a university. The college assessment test is offered on the third Friday of the month. Continuing Education also offers non-credit courses at EMEC. For more information about classes and services at EMEC, please call (626) 443-8932.

Fitness Center
Rio Hondo College’s state-of-the-art Fitness Center is located in the Kinesiology Department (room 130). 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 Center web page.

Observatory
Rio 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 over 40 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. 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) 908-3472 for more information.

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 Rio Hondo College parking permit on all vehicles parking on campus. Parking permits should be obtained at the time of registration and thereafter at every semester registration or where there is a change in vehicle(s). Motorcycle parking is permitted only in specially designated areas in Lots B and Level 5.

Visitors on campus may obtain temporary parking permits at the Parking Information Booth located off College Drive to the left at Parking Lot 2 of the lower level parking stalls or at one of three day parking permit dispensers available in these locations:
• Parking Lot A, center of lot
• Parking Lot A, near the bridge
• Parking Lot 6, near the stairs
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.

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.

**Santa Fe Springs Training Center**
The Rio 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 Physical Abilities Testing, CWH Firefighter Testing, National Fire Firefighter 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 Annex on the main campus. Please see Schedule of Classes for more information.

**South Whittier Educational Center (SWEC)**
The South Whittier Educational Center (SWEC) is one of Rio Hondo College’s off-campus satellite facilities located at 14307 East Telegraph Road, Whittier, CA 90604. There are classrooms and a computer resource lab. Regular college credit courses are offered at SWEC, including basic skills classes as well as general education courses for graduation and transfer to a university. The college assessment test is offered on the first Friday of the month. Continuing Education also offers non-credit courses at SWEC. For more information about classes and services at SWEC, please call (562) 941-2356.

**State Smog Center**
Rio 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.smgcheck.ca.gov for the eligibility conditions necessary to utilize a referee station. The Center is open Monday, Tuesday, Thursday, and Friday from 8:00 a.m. to 5:00 p.m. by appointment only. Closed on Wednesdays. Call (800) 622-7733 for an appointment.

**Wray Theatre**
The Wray Theatre, located on the lower quad, functions as the main performance space for the college. Showcasing a variety of student and professional performances in the areas of theatre, dance, music, and guest lectures, the theatre seats approximately 300 persons. 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. Call (562) 908-3471 or visit our web site at: http://www.riohondo.edu/arts/culturalevents.html for more information.
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 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.

Student Records

Privacy Act - All student records at Rio 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).

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 Rio 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 Rio 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. Issues that are not resolved at the campus level may be presented at the State Chancellor’s Office using their complaint process. Students are encouraged to follow the Rio Hondo College Complaint and Grievance process before attempting to file a complaint with the State Chancellor’s Office.

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).

For more information, please contact the Office of Student Affairs located in SS204 or visit:  http://www.riohondo.edu/student_affairs/complaints.htm.

**Directory Information**

This is to serve as public notice that the following information is regarded by Rio Hondo Community College District as Directory Information, and may be released for distribution unless a stop action is initiated by a student on the Rio 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 in College Programs and Activities**

**Non-Discrimination Policy**

Rio 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, 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 compliance and/or grievance procedures may be directed to the District’s Title IX Officer/Section 504/ADA Coordinator, Loy Nashua, Dean, Student Affairs, Student Services Building, 2nd Floor, room SS-204, (562) 908-3498.

Rio 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

2015-2016 Catalog
**Ausencia de Discriminación en Programas y Actividades Del Colegio**

El Distrito del Colegio de la Comunidad de Río Hondo no discrimina contra raza, color, nacionalidad, edad, religión, incapacidad física, estado civil o estado como veterano en ninguna de sus acciones, procedimientos o prácticas.

Esta ausencia de discriminación incluye admisión, acceso, tratamiento y empleo en los programas del Colegio; educación vocacional incluida. Preguntas acerca la política en igualdad Colegio; educación vocacional incluida. y empleo en los programas del Colegio; educación vocacional incluida. y empleo en los programas del Colegio; educación vocacional incluida. y empleo en los programas del Colegio; educación vocacional incluida. 

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Preguntas referentes a las leyes federales y regulaciones en cuanto la falta de discriminación en educación o el acatamiento del Colegio con aquellas provisiones pueden ser dirigidas al Coordinador, el Canciller de los Colegios de la Comunidad de California o la Oficina de Derechos Civiles, Departamento de Educación de los EEUU.

Estudiantes con inglés limitado serán ayudados para calificar en los programas vocacionales del colegio.

Estudiantes que necesiten los servicios de un miembro bilingüe de la facultad para asistirlos pueden comunicarse con el Oficial de Cumplimiento del Distrito salón SS204, o (562) 908-3498 o TDD (562) 908-3422.

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**Registered Sex Offender Information**

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, Rio 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; submission to, or rejection of, the conduct by the individual is used as a basis of employment of academic decisions effecting the individual;
2. 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
3. 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 sexual 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 individuals 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.

**Examples** – Sexual harassment includes, but is not limited to the following misconduct:

1. **Verbal:** Inappropriate or offensive remarks, slurs, jokes or innuendoes based on sex. This may include, but is not limited to, inappropriate comments regarding an individual’s body, physical appearance, attire, sexual prowess, marital status, or sexual orientation; unwelcome flirting or propositions; demands for sexual favors; verbal abuse, threats or intimidation of a sexual nature; or sexist, patronizing or ridiculing statements that convey derogatory attitudes about a particular gender.
2. **Physical:** Inappropriate or offensive touching, assault, or physical interference with free movement. This may include, but is not limited to, kissing, patting, lingering or intimate touches, grabbing, pinching, leering, staring, unnecessarily brushing against or blocking another person, whistling or sexual gestures.
3. **Visual or Written:** The display or circulation of offensive sexually oriented visual or written material. This may include, but is not limited to, posters, cartoons, drawings, graffiti, reading materials, computer graphics or electronic media transmissions.
4. **Environmental:** An academic or work environment that is permeated with sexually-oriented talk, innuendo, insults or abuse not relevant to the
Hostigamiento Sexual

Hostigamiento sexual es acoso sexual, ofensivo y mal recibido.

Hostigamiento sexual es una forma de discriminación sexual, lo cual viola el Título VII del Acto de los Derechos Civiles de 1964, a como se han enmendado, Título IX de los Enmendamientos de Educación de 1972, estatutos del Estado de California, y política de la Junta del Distrito del Colegio de Río Hondo BP 3430.

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

1. comportamiento 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. comportamiento 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. comportamiento al comportamiento, o rechazo del comportamiento, del hostigador se usa como criterio de cualquier decisión en cuanto al individuo y los beneficios o servicios, lauros del colegio, programas, o actividades que se presentan en o por el colegio.

Esta definición incluye dos clases de hostigamiento sexual.

1. *Quid pro quo* hostigamiento sexual ocurre cuando una persona con puesto de autoridad presenta beneficios educativos o de empleo como dependientes en el sometimiento del individuo a participar en o tolerar comportamiento sexual mal recibido.
2. Ambiente hostil hostigamiento sexual ocurre cuando 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 crea 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. 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. Hostigamiento sexual puede ocurrir entre personas del mismo sexo o de diferentes sexos. El criterio para determinar si comportamiento es hostigamiento sexual es si una persona razonable del mismo sexo percibiría el comportamiento como hostigamiento sexual.

Ejemplos – Hostigamiento sexual incluye, pero no se limita a, mal comportamiento como:

1. Verbal: palabras impropias o ofensivas, menosprecios, chistes o burlas o insinuaciones sexuales. Esto incluye, pero no se limita a, comentarios impropios en cuanto al cuerpo del individuo, la apariencia física, atavío, valentía sexual, estado civil, o preferencia sexual del individuo; el hostigamiento ilícito en el ambiente. La determinación del ambiente como hostil se basa en el conjunto de todas las circunstancias, inclusive elementos como la frecuencia del comportamiento, la severidad del comportamiento, si el comportamiento menoscapa o amenaza, y si el comportamiento impide excesivamente el empleo del individuo o los estudios del individuo.

Si usted cree que usted ha sido víctima de hostigamiento sexual, llame a,
and varied abilities to maintain different people on campus have discrimination. Understanding that in response to notice of gender-based misconduct. The deputy investigators to investigate allegations of gender-members of the investigative team, assign deputy investigators, who are a student). The Title IX Officer may involving personnel (not related to initiating notice and/or investigation of sexual misconduct excluding cases of sexual exploitation, please contact:

Loy Nashua
Title IX Officer
Dean of Student Affairs
lnashua@riohondo.edu
562-908-3498

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 or off-campus rape crisis resources who can maintain confidentiality.

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

Privacy and Reporting:
The Dean of Student Affairs, Loy Nashua (lnashua@riohondo.edu), is the College’s designated Title IX Officer. The Title IX Officer is responsible for the purposes of initiating notice and/or investigation of sexual misconduct excluding cases involving personnel (not related to a student). The Title IX Officer may assign deputy investigators, who are members of the investigative team, to investigate allegations of gender-based 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 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, non-consensual sexual intercourse, or sexual exploitation, please contact:

Loy Nashua
Title IX Officer
Dean of Student Affairs
lnashua@riohondo.edu
562-908-3498
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 Rio 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, Rio Hondo College has guaranteed certain fundamental rights to its students and faculty.

Rio 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, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee, which is concurred with by the Superintendent. (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 by 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.

BB. Knowingly and without permission accessing or causing to be accessed any computer, computer system, or computer network.

CC. Knowingly introducing any computer contaminant, commonly called viruses or worms, into any computer, computer system, or computer network.

DD. 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.

EE. The obstruction or disruption, on or off-campus, of the District’s educational or administrative process or any other District function.

FF. 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.

GG. Attempting to perform any previously identified act that constitutes a cause for disciplinary action.

HH. 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.

II. Failure to comply with directions of District officials acting in the performance of their duties.

JJ. Soliciting or assisting another to do any act which would subject a student to expulsion, suspension, probation, or other discipline pursuant to this policy.

KK. Any other cause not previously listed which is identified as a good cause by the College or the Hearing Panel.
LL. 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 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 Student Code of 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.

*Rio Hondo College’s Policy on Drug and Alcohol Abuse:
Rio Hondo College wants to provide a quality education for you. We believe that creating a learning environment which is free of drug and alcohol abuse is important. The college’s standard of conduct (Board Policy 5500) clearly prohibits the unlawful possession, use, or distribution of illicit drugs or alcohol by students on campus or as part of any of its activities.

What the College will do:
If you violate these policies, you may be subject to corrective action, up to and including suspension or expulsion. It is important to note that the College is prepared to impose disciplinary action as it deems fit. State laws may be applicable.

If you want help . . .
Rio Hondo College has some resources to assist you in breaking out of drug and alcohol abuse. Call (562) 692-0921:
Student Health Center
and Psychological Services
Rm SS230, ext. 3438
Psychological Services
Rm SS230, ext. 7302
Counseling Center
Rm SS104, ext. 3410

This information is provided to all students per requirements of the Drug Free School and Communities Act Amendments of 1989. (P.L. 101-226)
Admission, Registration & Educational Costs

Admissions: Becoming a Rio 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 Rio 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 Rio Hondo College on the basis of race, color, religion, sex, national origin, age, or physical or psychological disability.

Who May Apply
You may be eligible for admission to Rio Hondo College if you are:
- A high school graduate or GED recipient
- Not a high school graduate but over 18 years of age
- A current high school student who is recommended by the school principal for advanced academic or vocational classes, has the approval of the student’s parent(s), meets the college’s special admissions criteria and is LIMITED TO 7 UNITS or 2 classes of non-remedial coursework per semester (if under 18 years).

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

New Student: A new student is a student who has never registered at Rio Hondo College.

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 a semester or more (not including summer) must submit an 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).

Enrichment Student: An enrichment student is a student who is currently enrolled in grades K-12 or is home-schooled.

- Enrichment students younger than 9th grade
  Students younger than 9th grade will be admitted if they meet the exceptional student criteria (highly gifted students with an IQ score above 150). These students may only enroll in college level courses (degree applicable courses), must meet prerequisites, and must show documentation of their gifted status and proof of IQ.

Residence Requirements
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 non-resident fees. To establish residency, a student must be able to prove eligibility, physical presence, and the intent to remain as a resident (one year and one day prior to the first day of the semester) or 24 months of physical presence. Federal law precludes some visa types from establishing residency. In addition to other requirements, a student must be able to prove residency for one year and one day prior to the beginning of the semester. Selected exemptions from non-resident 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.

Non-Resident 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 non-resident/international student fee of $200.00 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 (Stats. 2001, ch. 814) which adds a new section to the California Education Code. Section 68130.5 creates a new 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 new law does not grant residency. It requires that certain nonresident students be exempted from paying nonresident tuition.
2. Students exempted from paying nonresident tuition pursuant to section 68130.5 do not become residents for eligibility purposes for any state-funded program (e.g., EOP&S, Cal Grant programs, or for purposes of a BOG Fee Waiver).
3. Students who meet the exemption requirements and who are unlawful immigrants are not eligible for any federal or state financial aid program. 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. Attendance at continuation high schools, charter high schools and K-12 approved independent education is acceptable. Attendance at a home school is not acceptable unless the home-schooling was provided in a manner recognized under state law. 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.
   c. 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).
   d. 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.
   e. 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.

**International Students**

Students from outside the United States are welcome to pursue higher education at Rio Hondo College. The college values the presence of students from diverse cultures on the college campus. Rio 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 in the Spring and Fall 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 and 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 while attending Rio Hondo College.

An International 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/ or call us at (562) 463-7643.

**Admissions Requirement Overseas Students**

- International Student Application
- TOEFL Scores (minimum 450 paper-based, 133 computer-based or 45 internet-based)
- Bank Certification (verification on bank letterhead signed by a bank official showing minimum $20,000.00 USD available to student)
- Application processing fee of $20.00 (nonrefundable)
- 18 years of age by the time the semester begins
- Copy of passport

**Admissions Requirement Transfer Students**

- International Student Application
- TOEFL Scores (minimum 45IBT or college level English equivalency)
- Bank Certification (verification on bank letterhead signed by a bank official showing minimum $20,000.00 USD available to student)
• Application processing fee of $20.00 (nonrefundable)
• 18 years of age by the time the semester begins
• Copy of Passport, Visa, and I-94
• Copy of all I-20s (if applicable)
• Transfer eligibility form will be issued upon acceptance

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 V.

Unit Limitations
Students are limited to 18 units (15 units for summer sessions) unless they receive approval from a counselor for additional units. Students wishing to enroll in over 18 units (15 units for summer sessions) must meet with a counselor for a unit overload form. High School students are limited to 7 UNITS or 2 classes of non-remedial coursework

Adding/Dropping Classes
Students may add classes (including a change of section of the same course) during open registration dates as listed in the online Class Schedule. The class add must be processed through AccessRio, and students who complete this process are officially enrolled in the class.

If the class and wait list are closed, students 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 AccessRio by the published deadline.

Rio Hondo College has a Drop for Non-Payment procedure. Prior to the start of each semester, there will be Common Drop Dates. The students who do not pay their fees or are not exempt will be dropped. The full procedure, including a list of exempt student groups, is posted on the Admissions web page.

It is the student’s responsibility to officially drop classes prior to the drop deadline in a given semester to avoid receiving failing grades.

To find the drop deadline 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 course, including drop dates. This section will specifically contain information on the last day to drop classes without receiving a failing grade or the last day to drop classes without receiving a “W” grade. See Course Withdrawal in Section 5 for additional information receiving failing grades. Please consult the online Class Schedule and click on the CRN number of the course you are trying to drop. There students will find information on critical dates for the course, including drop dates. This section will specifically contain information on the last day to drop classes without receiving a failing grade or the last day to drop classes without receiving a “W” grade. See Course Withdrawal in Section 5 for additional information.

Evaluation of Transcripts
All students enrolled at Rio 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 Rio Hondo College. Hand carried transcripts are not accepted. These transcripts can verify completion of prerequisite courses, eliminating the necessity of taking all or part of the assessment tests, and can assist the counselors in working with the student. Official transcripts from other 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. Upon request, transcripts from colleges accredited by one of the regional accrediting associations will be evaluated for students during the first semester of attendance.

Transcripts of military service credits will be evaluated upon request of the student.

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 Success and Support Program (formerly Matriculation)
Senate Bill 1456 revised and renamed the Matriculation Act of 1986 as the Seymour-Campbell Student Success Act of 2012. Signed by Governor Brown on September 27, 2012, the program began on January 1, 2013 and will be implemented in stages over a five-year period.

The Student Success and Support Program supports the transition of new students into the college by providing them services that promote academic achievement and successful completion of degrees, transfer preparation, career technical education certificates, or career advancement. Based on student responses to the Rio Hondo College Application for Admission, students self-identify as either matriculating or non-matriculating. Students identified as matriculating are referred to core services: assessment, orientation, and counseling. Students must complete assessment and orientation in order to receive priority registration. They also need to develop an educational plan which can be accomplished by enrolling in a counseling course, attending an educational planning workshop, or by scheduling an appointment with a counselor. 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.

The Student Success and Support Program is the process responsible for bringing together the college and a student, who enrolls for credit, into an agreement for the purpose of realizing the student’s educational goals through the college’s established programs, policies, and requirements. The primary purpose of the Student Success and Support Program is to enhance a student’s success at the college. 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.

Document:
2015-2016 Catalog
Military Veteran students must participate in all matriculation components as required by the Veterans Administration (VA).

Components of Matriculation
Matriculation is composed of the following steps designed to enhance student success:
1. Admission to the college
2. Assessment of English or English-as-a-Second Language, Math, and Reading skills
3. Orientation to the college’s programs and services
4. Counseling and advisement for assistance in defining an educational goal and developing a plan to achieve the goal.

Five Steps to Becoming a Rio Hondo College Student
Step 1: Application
Effective in the Spring 2010 semester, Rio Hondo College began utilizing CCC Apply for application processing. To submit an application for admissions log on to http://www.riohondo.edu/get-started/.

Step 2: Assessment
All new non-exempt students (“non-exempt” refers to students seeking an AA/AS degree, a certificate or transfer) are required to participate in an assessment/orientation/advisement (AOA) process (prior to registration for classes) designed to assist students in reaching their educational and career goals. The purpose of the AOA process at Rio Hondo College is to assess the student’s skill level in English, reading and mathematics and provide the student with the necessary resources for a successful college experience. The student’s reported information, in conjunction with available high school and/or college transcripts are used to determine course placement and the development of a Student Educational Plan (SEP). The assessment information assists the counselor in outlining a useful and clear educational program for the student’s long-range educational plans and the eventual attainment of a chosen career. The AOA process is an effort by Rio Hondo College to provide the student with the finest academic advisement and counseling possible. Students are encouraged to meet with a counselor within the first six weeks of enrollment at the college. The assessment/orientation is available by appointment throughout each semester and during the summer. Non-exempt students who do not complete the AOA process will receive a hold on their registration in the term that follows their first semester at Rio Hondo College. For more information, please contact the Assessment Office at (562) 463-7226 or visit LR130. If you need additional information call (562) 463-7226.

Step 3: 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 will be given an opportunity to participate in a computerized Orientation during their Assessment Test. Students who do not require an Assessment test can still attend a computerized Orientation in the Assessment Center. Check for dates and times at the Rio Hondo web site: www.riohondo.edu and click “Assessment Test Information” for the most accurate information regarding walk-in Orientations. The Assessment Center is located in the Learning Resource Center, room LR130 and the Assessment Office is located in LR141. If you need additional information call (562) 463-7226.

Step 4: Registration
Upon completing steps 1-3, a student can register online at https://accessrio.riohondo.edu/op/home/displaylogin 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 AccessRio online registration system for a given semester.

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

Step 5: Counseling & Advisement
It is important to make an appointment with a counselor to discuss the student’s educational goals and to develop an educational plan before classes begin. For information and/or to make an appointment, please call (562) 908-3410 or go to SS-160.

Student Success and Support Program Requirement
All new students are encouraged to participate in the components of admission, assessment, orientation, and counseling. However, exemptions for these components may be granted if certain criteria are met. (See Matriculation Exemptions.) All new, non-exempt students who are unable to complete the assessment process before their first semester of attendance may enroll; however, they must be assessed prior to registering for their second semester at the college. Students who have not completed the assessment process may be unable to register for certain courses that require prerequisites.

College Responsibilities
In the Student Success and Support Program process, the college has certain responsibilities. The college, to support student success, agrees to provide:
• Processing of applications for admission
• Assessment of basic skills, study skills, and career interests
• Orientation to college programs and services
• Counseling/advising
• Assistance in developing an educational plan
• Follow-up and referral to services

Student Responsibilities
In the Student Success and Support Program process, the student also has certain responsibilities. The student, to support his/her own success, has the responsibility to:
• Express a broad educational intent upon admission
• Provide high school and/or college transcripts and other supporting documentation to assist the counselor in making the best possible placement recommendations
• 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.
• File a complaint of unlawful discrimination if a student feels that assessment, orientation, counseling, or any other matriculation process is being applied in a discriminatory manner. A petition may be obtained from the Office of the Vice President of Student Services. Upon receiving a complaint, the Vice President of Student Services will convene a three-member panel consisting of the Affirmative Action Officer or designee and two members of the Matriculation Coordinating Committee to review the student’s petition. The panel shall meet and provide a written notification to the student within five working days.

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 area. Military students must participate in all matriculation components as required by the VA.

A. Assessment, 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. Assessment
– Further assessment exemption may be granted according to one of the following criteria:

• Students who have successfully completed the equivalent of ENGL 035 or ENGL 101 at another community college or university are exempt from taking the English Placement Test.
• Students who have successfully completed the equivalent of MATH 020 or higher at another community college or university are exempt from taking the Math Placement Test.
• Students who have taken a Rio Hondo College-approved assessment test at another college are exempt from taking the appropriate assessment tests.

Those students who have not recently completed the equivalent math and/or English courses and/or recently taken an acceptable assessment test at another college are highly recommended to take the assessment tests at Rio Hondo College for appropriate placement in advanced courses.

C. Orientation
– All students are encouraged to participate in 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 Rio Hondo College orientation.

Assessment Retest Policy
English, Reading and Math assessment scores are valid for two years. After two years, students are advised to re-test. For more information, visit the Assessment office located in LR-130.

Assessment Placement Appeals Procedure
All students have the right to appeal any placement decision after going through the assessment process. An assessment placement appeal requires written documentation and an explanation of alternative course work, background, or abilities that adequately prepare the student for the course. An Assessment Placement Appeals form can be obtained from the Counseling Department or the appropriate division office (either Communications and Languages or Math and Sciences). Reasons for appealing an assessment placement may include one or more of the following:

• the course recommended is not reasonably available, or
• the student believes the recommended course is not valid or necessary for success in the next course level for which it is required, or
• the student believes the placement results are discriminatory or are being applied in a discriminatory manner, or
• the student has the documented knowledge or ability to succeed in the next level course without taking the recommended course by the appropriate division office.

Upon filing the Assessment Placement Appeals form, the student may enroll in the desired class. If the appeal is not upheld, the student will be required to drop the class. The district will ensure that the appeal 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 Library and Instructional Support or designee.

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 the preparation or previous course work is considered necessary for success in the desired course.
Corequisites – A course corequisite indicates another course that must be taken concurrently with the desired course.
Prerequisites/corequisites that are listed in the college catalog include:

- Courses for which specific prerequisite/corequisites have been validated,
- Sequential course work 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 assessment process, they may appeal (challenge) their assessment placement results.

Advisories – A course advisory indicates that if students have the designated preparation or previous course work, 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.

How to Clear a Prerequisite
If a student believes he/she has met a pre-requisite at another institution, he/she can see a counselor for a pre-requisite clearance. Students must provide evidence of meeting the pre-requisite using documentation such as an academic transcript. See a counselor for details.

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 course work 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 under Academic divisions, Career & Technical Education, Counseling. The link will be at bottom of the page.

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 for 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 Career & Technical Education/Instructional Operations (Room-T-129) or designee.

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 non-resident tuition fees of $200.00 per unit plus the $46.00 a unit fee as required under state law (fees subject to change).

College Services Fee – The Associated Students of Rio 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 Rio 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 parking fee for day and evening students during the fall/spring semesters is $40.00. The fee for summer sessions students is $20.00. Motorcycle parking is $10.50 for fall/spring semesters; $5.50 for summer sessions.

Student Health Fee – Rio Hondo College provides a health services program, as approved by the Board of Trustees, for students who formally register at Rio Hondo College, are currently enrolled, and pay a $19 health fee ($16.00 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 $1.00 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.
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.

**Scholarships**
A variety of scholarships are available to Rio Hondo College students. For more information, contact the Financial Aid/Scholarship Office at (562) 908-3411 or go online to www.riohondo.edu to view scholarship opportunities.

**Student Financial Obligations**

*Withholding Grades, Transcripts, etc. for Nonpayment of Financial Obligations (59410)* – The governing board of a community college district may provide by appropriate rules and regulations that grades, transcripts, diplomas and registration privileges, or any combination thereof, shall be withheld from any student or former student who has been provided with written notice that he or she has failed to pay a proper financial obligation due to the district or a college. (BP 5035)

**Enrollment/Fees Refunds**

*Resident Students*
Resident students reducing their course load or withdrawing from all courses during the first 10% of the fall/spring semester may file for a refund in the Admissions and Records Office. During the summer session, resident students reducing their course load or withdrawing from all courses during the first 10% of the session may file for a refund in the Admissions and Records Office. Please check the Rio Hondo web site, under the Admissions and General Information link for specific deadline dates. Any enrollment fee refund request is subject to a once-per-semester service charge of $10.00.

*Non-Resident Students*
For non-resident students reducing their course load or withdrawing from all courses, a refund may be requested in Admissions and Records during the first 10% of the fall/spring semester in order to receive a full refund of all out-of-state fees. During the summer session, a refund must be requested in Admissions and Records prior to the end of the first 10% of instruction to receive a full refund of all out-of-state fees. The 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 Rio Hondo web site, under the Admissions and General Information link 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.
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.

Assessment Center
The Assessment Center administers a variety of tests and surveys to provide current information about student educational preparation, interests and other characteristics. This information is important for the advisement process and for student selection of courses and programs appropriate to their needs, experiences, background, and educational goals. Assessment tests must be completed before registering for English, ENLA, mathematics and Reading courses. Information about scheduling assessment tests is available on the Assessment web page. The Assessment Center is located in the Learning Resource Center, room LR141.

CalWORKs Program
CalWORKs stands for California Work Opportunity and Responsibility for Kids. It is the state’s welfare-to-work program for families with children.

The purpose of the CalWORKs program at Rio Hondo College is to provide students who are receiving cash aid/ Temporary Aid for Needy Families (TANF) with education, training, and employment skills to become self-sufficient.

The following services are available to students:

- **Counseling** – to provide academic, career, and personal counseling, assist students in assessing planning and implementing their immediate and long-range goals. Assist students in interpreting certificate, associate degree, and transfer related requirements. In addition, counselors help students meet the rules and regulations required by the Department of Social Services. Counselors, complete county forms, provide one-on-one counseling services, help students meet the 20/30/35 hour county requirement, and advocate for students rights.
- **Work Study** – Paid part-time jobs on and off campus (based on funding). Work study does not affect cash aid.
- **Employment Services** – One-on-one assistance with resume writing, interview techniques, and job search assistance.

The CalWORKs program is located in the Student Services Building, room SS220. For more information, please visit the CalWORKs web page or call (562) 463-7311.

Career Counseling

Career Services:
Counselors in the Center for Career & Re-entry Services (CCRS) offer assistance in clarifying educational and career goals as well as life choices. Utilizing validated career assessments, research, and goal setting methods, skilled Career Counselors can help students determine a major and choose a career based on interests, aptitudes, and abilities. An extensive collection of resources including books, pamphlets, software, and DVDs are available to assist with the career exploration process. The EUREKA software program offers career information and assessments for career decision making. On the CCRS website, a monthly calendar of career related workshops and an online jobs and internships database (College Central Network), can be found.

Re-entry Services:
The CCRS also provides comprehensive support services including educational planning, career, and job search assistance for re-entry students (students age 25+ who are new to college or are returning to college after at least a 5 year absence).

For more information visit the CCRS located in SS350 or go to [http://www.riohondo.edu/career-center/](http://www.riohondo.edu/career-center/).
The Child Development Center/ Pre-School Laboratory operates a high quality early childhood program for preschool children, who turn 3 by September 1st up until they qualify for kindergarten, while offering laboratory opportunities for community college students and responding to the needs of the children’s families. Enrollment is available for Rio Hondo student parents, staff and faculty and the local community. California State Preschool provides funding support for families who qualify according to income and family need. Full fee enrollment is also available. Hours of operation are 7:30 a.m. to 5 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 Rio Hondo website under the Current Student Menu>Resources>Preschool.

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).

Rio 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)
- District Computer Lab (B107 and B108)
- First Year Success Center (Student Union)
- Learning Assistance Center (LR114)
- Library (2nd Floor)
- Math and Science Center (S300)
- Student Services Building (1st Floor)
- Transfer Center (SS250)
- TRIO (SS140)
- El Monte Educational Center
- Santa Fe Springs Regional Training Center
- South Whittier Educational Center

The mission of Continuing Education is to enrich the lives of non-traditional college students by providing lifelong learning opportunities. The high quality instructional programs are a combination of fee-based and non-credit courses, and directly reflect the needs of the community. The courses provide students with the opportunity for career advancement, prepare students for a college education, and enrich their lives 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 diverse, non-traditional students who are looking for a short-term alternative to credit courses.

The Continuing Education Office 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.

Free training is available for companies that qualify through the Employment Training Panel program. Various training programs such as Total Quality Management, Customer Service, Production Techniques, Office Administration, Team Concepts, Statistical Process Control, English-as-a-Second Language, etc. are available. For information, please refer to the Continuing Education Class Schedule, our web page or call (562) 908-4606.

Counseling

The primary responsibility of the counseling staff is to provide counseling support for Rio 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, counseling and student services are organized to aid each student in establishing, clarifying, and pursuing personal, educational, and career goals.

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

Counselors are available throughout the year for consultation. 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, 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)

Rio Hondo College offers both classroom instruction and student support services for students with disabilities. Resource rooms and expert staff are available to students who need disability-related accommodations and support services. A variety of support services are available to qualified students with a disability. Students with professional documentation of a disability, including but not limited to students with a physical, learning or psychological disability, students with a visual impairment, acquired brain injury or who are developmentally-delayed learner.

Services include specialized tutoring, 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, Rm SS330.

Distance Education: Online Courses
Rio Hondo College offers students the opportunity to take college courses over the Internet through its Office of Online 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 anywhere and at any time. Rio Hondo’s Office of Online Education offers students a variety of online courses to fulfill general education 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 Online Education web site or call (562) 463-3218.

Extended Opportunity Programs & Services (EOP&S/CARE)
Extended Opportunities Programs & Services is a state funded program that provides “over and above” services to student 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
- Priority Registration
- Merit Grants
- Textbook Services
- Educational Supplies
- Tutoring
- Meal Vouchers

Cooperative Agencies Resources for Education (CARE) is a supplemental component of (EOP&S) that specifically assists low-income single parents who are receiving Temporary Aid for Needy Families (TANF) to succeed in reaching their educational goals.

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

Financial Aid Services
Rio 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 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 www.fafsa.ed.gov. The Rio 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 Financial Aid the web page.

Federal Financial Aid Programs
The federal government offers a variety of grants 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 – A limited number of grants are available through this program. Priority is given to students who apply by the priority deadline and have exceptional need.

Federal Work Study - This program allows students to seek employment for on-campus jobs. Students generally work up to 20 hours per week.

Federal Direct Loan Program (FDLP) - Students may apply for a Subsidized or Unsubsidized loan from the federal government.

Return to Title IV Funds
In accordance with the Federal Regulations HEA, Section 4848, 34 CFR 668.22, Rio 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 all 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, interest-free loan to students to assist them in emergency situations and for the purpose of buying books and supplies. Students who have paid the College Services Fee 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, first-served basis.

Scholarships
(Institutional Financial Aid Programs)
There are numerous scholarships available to Rio 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/

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, state-administered 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.
To complete the Honors Transfer Program, students must take six 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 twice a semester. For more information and application forms, visit the Honors Transfer Program website http://www.riohondo.edu/honors/.

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 or Instructional Assistants.

Foreign Language/ENLA Lab
The Foreign Language Lab is located on the first floor of the Learning Resource Center and is available for students enrolled in ENLA or foreign language classes that require a lab. Students should check their class schedule for their registered day and time.

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 located on the 3rd floor of the L Tower. For more information, visit the Health Science & Nursing web page.

Pre-School Laboratory
Rio 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.

Reading Lab
The Reading Lab is located on the first floor of the Learning Resource Center and is available for students enrolled in the lab that supplements Reading 21 or Reading 22. Students should check their class schedule for their registered day and time.

Writing Center
The Writing Center is located on the first floor of the Learning Resource Center and is available for students enrolled in English 30, 35, 101 or 201 courses. Students must go through a Writing Center Orientation that takes place the first week of each semester. Students should check their class schedule for their registered day and time.

Writers’ Resource Center
The Writers’ Resource Center is an interdisciplinary writing center housed on the first floor of the Learning Resource Center. It is open to any student who wishes to get assistance with writing for any subject. The student receives one-on-one assistance from an English teacher. Schedule an appointment or drop by LR126A.
Library
The Rio Hondo College Library is the research center of the College. Occupying the second floor of the Learning Resources Center, the library offers a full range of books, periodicals, online databases, electronic books, recordings, and audiovisual materials in support of the college curriculum as well as for general enrichment. Computer workstations, ADA-compliant computers, wireless access, in-house laptops and a self-service copy/print center are also available.

The circulation desk at the entrance to the library serves as the first point of student service. This department activates library privileges; checks out books, audiovisual items, laptops and a limited number of high-demand course textbooks; loans audiovisual equipment to faculty and staff, and fills requests for campus signage.

Because today’s students face an ever-expanding variety and range of information resources, they must learn the critical thinking and information competency skills essential to optimizing the use of these resources. College librarians teach these skills by providing instruction in conducting effective research, reference assistance, and extended consultation. Library instruction takes the form of classes on general and specialized research topics requested by instructors for their students, one-on-one research guidance, drop-in research workshops, and a 3-credit library research class (LIB 101).

The library’s web site (www.riohondo.edu/library) contains many features designed to assist students and faculty in their course assignments. These resources include the online catalog and electronic databases, research guides, MLA, APA and ASA style sheets for citing print and electronic sources, links to the online catalogs of area libraries, library FAQs, and much more.

Students can make use of the library computers, in-house laptops, and their personal wireless-enabled laptops to conduct research. Individual study carrels, group tables, and informal seating areas allow for quiet study. To students who prefer to collaborate on class work, the library offers seven group study rooms that can be reserved for two hours at a time. Listening and viewing stations are available for use with audiovisual resources.

For more information about library services, please check the library’s web site at 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 Rio 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
- 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

For complete program information about the MESA/TRiO SSS STEM Programs, please contact us in room S205 (562)-463-3222 or visit www.riohondo.edu/mesa. Program eligibility requirements apply.

Orientation
Orientation familiarizes and acquaints students with important college policies and expectations, as well as the range of services and programs available. The new “My Online Orientation” is now available via the AccessRio portal. The completion of an Online or In-person 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 AccessRio.>>Click on the Student Tab and then >>Click on the My Online Orientation Tab.

Puente Program
The Puente program is a one-year writing, counseling and mentoring program. The emphasis is on Chicano/Latino writers and authors. The goal of the program is to increase the number of students who transfer to four-year colleges and universities. For more information, visit the Puente web page http://www.riohondo.edu/puente/.

Student Health Center 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 physicians, a psychologist, psychology interns, nurses 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 of illness and accidents
- Diagnosis and treatment of short-term medical problems
- Medication dispensed and/or prescriptions ordered by M.D. or NP
- Low cost immunizations
- Physical examinations at minimal cost
- Limited laboratory tests at cost
- Women’s Health Clinic
- Health counseling and education
- Vision and hearing testing
- Blood pressure monitoring
- Tuberculin skin testing
Psychological Services include:
We offer short-term counseling for students who are struggling with issues such as family and social relationships, romantic relationships, life transitions, sexuality, 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

Whenever there is a reason to believe that the health of a student may be a factor affecting progress, or that an individual’s health might endanger that of other students, the administration may require that the student obtain a physical examination by a district-selected doctor. In such cases, the college pays for the examination.

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.

Study Abroad
Rio Hondo College is a member of the Southern California Foothill Consortium that currently offers two study abroad experiences each year that provide students with a unique opportunity to enrich their education. In fall, students study in London, England and in spring 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 multi-cultural 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 primary responsibility of the Transfer Center is to ensure a transfer culture by providing comprehensive support services and resources as well as counseling services to empower students seeking to transfer to four-year colleges and universities.

The Transfer Center provides up-to-date information about transferring to four-year colleges or universities and public, private and out-of-state institutions. 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.

TRIO Programs
The Student Support Services Program, a federally-funded TRIO Program, prepares first-generation, low-income and/or disabled students for graduation or transfer into four-year colleges and universities.

Services are free to eligible students and include:
- Academic advisement
- Transfer and career information
- Tutoring
- Priority registration
- Student success workshops
- Educational and cultural activities
- Financial aid and scholarship information
- Cash-aid stipends

The TRIO Program is located in the Student Services Building, room SS140. For more information, visit the TRIO/SSS web page or call (562) 463-3216.

Tutoring Support
Tutoring services are available free to Rio Hondo College students at two locations on campus, the Learning Assistance Center and the Mathematics & Science Center. Tutoring is also available to students enrolled in specialized programs. For more information, visit the Tutoring web page www.riohondo.edu/tutoring/.

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

Mathematics & Sciences Center (MSC)
The Mathematics & Science Center located in the Science Building, room S300, provides free math tutoring for all Rio Hondo College students. In addition, four math courses are offered through the MSC. Other resources available to MSC 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 for each semester on the MSC web page: http://www.riohondo.edu/mathematics-and-sciences/mathematics-and-sciences-homepage/tutoring/.

Veterans Services
Veterans and Veteran Dependents are encouraged to take advantage of the counseling services and educational programs offered by Rio Hondo College. 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 regards 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 non-degree candidates. To prevent possible future interruption of educational benefits, it is essential that an official copy of all previous course work (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. Additions, drops, withdrawals and last day of attendance MUST BE REPORTED AT ONCE.

Monthly attendance reporting is required of veterans and dependents. The Department of Defense is now giving educational benefits for the National Guard and all of the Reserves, except for National Oceanographic and Atmospheric Administration and Public Health Service.

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. Saturday classes are scheduled each semester. Refer to the online Class Schedule for further information.
How to Get Involved In Campus Activities

Getting involved in activities at the college enriches the college experience for students. Rio 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 Rio Hondo College (ASRHC) is a self-sustaining student government organization. The ASRHC officers serve as student representatives at campus-wide 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 Rio 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 Rio Hondo College is a non-credit certificate program in partnership with California State University, Fullerton (CSUF). 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 signed by the CSUF college president, 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 Publications

El Paisano is the Rio Hondo College newspaper, published biweekly in print and online (www.elpaisanonewspaper.com). La Cima is the student magazine. These publications serve as voices of the campus and training opportunities for the college’s journalism program. Students enrolled in journalism classes form the publication staff of El Paisano and La Cima.

Athletics – Men’s & Women’s Intercollegiate Sports

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

Conference competition is scheduled in the following sports for men: baseball, basketball, water polo, swimming, soccer and wrestling; and for women: soccer, softball, basketball, volleyball, tennis, water polo, and swimming. Women’s sand volleyball is currently being offered as a club sport.

Male or female students who wish to become members of a team should check the class schedule online at: www.rihondo.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, student athletes MUST BE actively 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:**

**EFFECTIVE 7/1/15 — 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 Rio Hondo College who has previously PARTICIPATED in intercollegiate athletics at another California community college MUST COMPLETE 12 units at Rio 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. Advisors shall recognize and accept responsibility for the actions of students. 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 Rio 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 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 shall be subject to disciplinary action by the conference and Rio 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. College-approved pistol and rifle matches are excepted.

**Social Functions**

1. The college must sponsor any club or organization recruiting Rio 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 Rio 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.
Academic Guidelines

Attendance/Absences
All registered students should be present at the first meeting of the class unless other arrangements have been made with the instructor. 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

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 assignments, or altering medical excuses
- Possessing or using unauthorized materials during any behavior that defeats the intent of an exam

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. Faculty members shall inform students of the grade penalty that will be assessed. The consequences may be any of the following options:
Academic Honors

Dean’s List – Dean’s List certificates are awarded in the fall and spring semesters to all students whose semester grade-point 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. AGS also offers cultural and social programs and enrichment activities as part of the total college experience.

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

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 Change – 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 grade-point average (GPA). The highest grade shall receive four points, and the lowest grade shall receive 0 points, using only the following evaluative symbols:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
<th>Credit Granted</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>yes</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Above Average</td>
<td>yes</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>yes</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Below Average</td>
<td>yes</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>no</td>
<td>0</td>
</tr>
</tbody>
</table>

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

The following symbols are not used in calculating GPA:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
<th>Credit Granted</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Pass (satisfactory)</td>
<td>yes</td>
</tr>
<tr>
<td>NP</td>
<td>No Pass (less than satisfactory)</td>
<td>no</td>
</tr>
<tr>
<td>I*</td>
<td>Incomplete (where “*” indicates the default grade to be received by the student if the incomplete is not completed within one year.)</td>
<td>no</td>
</tr>
<tr>
<td>IPP</td>
<td>Incomplete Pass</td>
<td>no</td>
</tr>
<tr>
<td>INP</td>
<td>Incomplete No Pass</td>
<td>no</td>
</tr>
<tr>
<td>IP</td>
<td>In progress</td>
<td>no</td>
</tr>
<tr>
<td>RD</td>
<td>Report Delayed</td>
<td>no</td>
</tr>
<tr>
<td>W</td>
<td>Withdraw</td>
<td>no</td>
</tr>
<tr>
<td>MW</td>
<td>Military Withdraw</td>
<td>no</td>
</tr>
</tbody>
</table>

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. They may elect at registration, or no later than the end of the third week (by end of first week of summer school), whether the basis of evaluation is to be “P/NP” or a letter grade “P” (Pass) is defined as “C” grade or better.

All units earned on a Pass/No Pass basis in accredited California institutions of higher education or equivalent out-of-state institutions 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 web site (www.riohondo.edu); 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.

- Receive a “0” on that assignment
- Be 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. Faculty members are also encouraged to submit a Student Misconduct Form to 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.
There are three types of course withdrawal.

1. **Withdrawal without receiving a “W”** – A student who withdraws from a course before the listed last day to drop without a “W” deadline (20% of course length) will receive no grade on their student record (transcript) for the dropped course.

2. **Withdrawal with a “W”** – A student who withdraws after the last day to drop without a “W” deadline and before the deadline to drop a class (60% of course length) will receive a “W” grade on their student record (transcript). The “W” grade is not used to calculate a student’s grade-point average but may affect academic progress and result in progress probation/dismissal.

3. **Military Withdrawal** – 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 verification of such orders, a student may petition to withdraw from classes, and when authorized, the student will be withdrawn with a “MW” (military withdrawal) note on the student’s transcript. Military withdrawals are not counted in progress probation and dismissal calculations. Withdrawal petitions are available in the Admissions and Records Office.

A student who withdraws from all classes prior to the “drop without a ‘W’” deadline, excluding “MW” will no longer be classified as a continuing student.

**Student-Initiated Withdrawal** – It is the student’s responsibility to withdraw if the student longer wants to attend class. While it is the student’s responsibility, an instructor officially may withdraw a student with poor attendance. To drop a class, the student should consult with the instructor, and go to Access Rio website to drop the class by the established deadline. Failure to follow through with dropping a course that the student is no longer attending may result in the student receiving a failing grade.

**Instructor-Initiated Withdrawal** – A student may be withdrawn before the drop deadline (60% 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 officially may withdraw a student from class for poor attendance, it is the student’s responsibility to withdraw if the student is no longer attending the class.

**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 V.”

Rio 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 (per Education Code 76232) in order 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, Rio 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 Rio 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. From the last substandard work to be alleviated, the following 30 consecutive undergraduate units from any regionally accredited college or university must average at least a 2.00 GPA in order to qualify.

5. Two years must have elapsed since the most recent work to be alleviated.

6. 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 web site (www.riohondo.edu) and may vary from the regular class hours.

Honors Scholar

Honors Scholars are students who have completed any six honors courses, completed all general education transfer requirements, achieved a grade-point average of 3.2, and completed all lower division major prerequisites. All honors courses have an “H” designation.

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) if a student on academic probation for the preceding semester has not received approval by a counselor prior to registering for classes in the following semester.

A student on academic probation for the preceding semester whose performance 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 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 & Student Development.

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:
   a. The course repetition is necessary to meet the major requirements of CSU or UC for completion of a bachelor’s degree.
   b. The Course is designated as Intercollegiate Athletics.
   c. 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 course work from any regionally accredited college to replace Rio Hondo College coursework in which a “D” or “F” or “NP” was recorded provided the courses are articulated as being equivalent.

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:
   A. Extenuating circumstances:
      A student may repeat a course when he/she demonstrates 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. Student’s 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.

B. 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 may enroll multiple times in classes designated as “special classes” if it is determined that such repetition is required for that person 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.

Student Learning Outcomes (SLO)
Statements of Student Learning Outcomes (SLOs) are an integral part of the curriculum developed for programs of study and individual courses. Student Learning Outcomes are housed at the SLOlutions web site (www.rio.solutions.com) maintained by the Student Learning Outcomes Coordinator. Specific Student Learning Outcomes appear in course syllabi.
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 AccessRio 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:

<table>
<thead>
<tr>
<th>Working Hours/Week</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>12 – 16</td>
</tr>
<tr>
<td>10</td>
<td>10 – 11</td>
</tr>
<tr>
<td>20</td>
<td>7 – 9</td>
</tr>
<tr>
<td>30</td>
<td>3 – 6</td>
</tr>
<tr>
<td>30+</td>
<td>1 – 3</td>
</tr>
</tbody>
</table>

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.

Alternative Credit
Credit by External Examination
A student in good standing who has completed at least 12 units in residence and is actively enrolled at Rio Hondo College may petition to receive Credit by External Examination from the Advanced Placement (AP) examinations, College Level Examination Program (CLEP), and/or International Baccalaureate (IB). However, course credit cannot be granted if it duplicates previous course work completed at Rio Hondo. Credit awarded will not be used to meet residency requirements. Please note that course credit and units granted at Rio Hondo College may differ from course credit and units granted by a four-year transfer institution.

AP credit may be granted for the Advanced Placement tests which have been satisfactorily passed with a score of 3, 4, or 5. See pages 42-43.

CLEP credit may be granted for the College Level Examination Program tests in selected areas. See pages 44-45.

IB: International Baccalaureate credit may be granted for the International Baccalaureate Higher Level Examinations with scores of 5, 6, or 7. See page 46.

Guidelines for receiving credit:
1. A request form must be completed and returned to the Admissions and Records Office.
2. An official transcript of the test scores must be sent to the Admissions & Records Office to be kept as part of the official record.

IB Credit
Students may receive credit for International Baccalaureate Higher Level Exams (IB) with scores of 5, 6, or 7 to fulfill Rio Hondo College general education requirements. Official IB scores must be sent to the Admissions and Records Office. See page 46.

Credit by Examination at Rio Hondo
The Board of Trustees of Rio Hondo College, in accordance with provisions of Title V (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.

Individual departments and/or specialty areas may elect 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 shall be given course credit up to a limit of 12 Rio Hondo College units upon the successful completion of examinations. (Not to count as units in residence.) The student’s transcript will denote credit earned by credit by exam.
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. Students may be exempt from this if they are requesting to challenge and receive credit by examination for a high school / Regional Occupational Program Career and Technical Education (CTE) articulated pathway (Title 5 Section 55052).

**American Council on Education (ACE) Credit**
Credit may be granted for those courses listed in the American Council on Education source book. The courses listed may be treated as lower-division transfer courses by Rio Hondo College and may be acceptable for units towards graduation requirements for the associate degree provided all other graduation requirements are fulfilled.

Before any course is applied to a departmental major and/or to a certificate, the course is subject to departmental approval of equivalencies and for prerequisites. Otherwise, the course shall be applied for elective credit only.

Students are to be apprised of the fact that although Rio Hondo accepts such a course as a transfer course and applies units toward the degree, transfer of said course to a specific four-year institution is subject to current articulation agreements with that institution.

**Credit for Military Service**
Rio Hondo College may grant credit for service courses as described in the Guide to the Evaluations of Educational Experiences in the Armed Forces by the American Council on Education. Course work from the Community College of the Air Force will be granted credit on the basis of similarity to Rio Hondo programs.

Veterans desiring credit for military service must request such credit and present authentic military service and training records, including a copy of the discharge papers (DD214) to the Admissions & Records Office. Upon the presentation of the DD214, two P.E. requirements may be waived for the A.A. or A.S. degree. Requests for military credit will be evaluated upon the presentation of proper documents, and the completion of 12 units of work at Rio Hondo College.

Those veterans planning on applying for veterans benefits while attending classes must submit proper documentation of military service, schools, and any postsecondary credits prior to enrolling at Rio Hondo. These documents are to be sent to the Veterans Office at Rio Hondo College. Records will be reviewed and evaluated prior to enrollment and development of an educational plan. Under some conditions, students may be allowed to enroll and have their military and educational records submitted prior to the end of the first semester of attendance.

**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 Rio Hondo College.

**Upper-Division Credit**
Upper-division credit from U.S. regionally accredited institutions may be used to fulfill Rio Hondo graduation requirements. Please see a counselor for more information.
**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 on the A.A. or GE patterns. To request Scores, call 1(888) 225-5427. Course credit and units granted at Rio 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. AP credit can be used to meet IGETC, CSU GE and A.A. general education (GE) and/or major requirements.

<table>
<thead>
<tr>
<th>EXAM</th>
<th>RHC AA (MAJOR AND/OR GE)</th>
<th>CSU GE</th>
<th>CSU - UNITS EARNED TOWARD TRANSFER</th>
<th>IGETC</th>
<th>UC - UNITS EARNED TOWARD TRANSFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>ART 105, 106</td>
<td>Area C1 or C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3A or 3B 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Art (Studio)</td>
<td>N/A</td>
<td>N/A</td>
<td>3 semester units</td>
<td>N/A</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Biology</td>
<td>BIOL 101</td>
<td>Area B2 and B3 4 semester units</td>
<td>6 semester units</td>
<td>Area 5B (with lab) 4 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>Communication &amp; Analytical Thinking 3 semester units Score of 4 or 5 - MATH 190 4 semester units</td>
<td>Area B4 3 semester units</td>
<td>3 semester units*</td>
<td>Area 2A 3 semester units</td>
<td>4 quarter/2.7 semester units**</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>Communication &amp; Analytical Thinking 3 Semester Units Score of 4 or 5 - MATH 190, 191 5 semester units</td>
<td>Area B4 3 semester units</td>
<td>6 semester units*</td>
<td>Area 2A 3 semester units</td>
<td>8 quarter/5.3 semester units**</td>
</tr>
<tr>
<td>AP CALCULUS EXAM LIMITATIONS</td>
<td></td>
<td>*Only one exam may be used toward transfer</td>
<td></td>
<td>**Maximum credit 8 quarter/5.3 semester units for both</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>Score of 3 – Chemistry 120 Score of 4 or 5 - Chemistry 130 5 Semester Units</td>
<td>Areas B1 and B3 4 semester units</td>
<td>6 semester units</td>
<td>Area 5A (with lab) 4 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture</td>
<td>Humanities</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>N/A</td>
<td>N/A</td>
<td>3 semester units**</td>
<td>N/A</td>
<td>2 quarter/1.3 semester units**</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>N/A</td>
<td>N/A</td>
<td>6 semester units**</td>
<td>N/A</td>
<td>4 quarter/2.7 semester units***</td>
</tr>
<tr>
<td>AP ENGLISH EXAM LIMITATIONS</td>
<td></td>
<td>**Maximum one exam toward transfer</td>
<td></td>
<td>***Maximum 4 quarter/2.7 semester units for both</td>
<td></td>
</tr>
<tr>
<td>Economics - Macroeconomics</td>
<td>Social &amp; Behavioral Science 3 semester units Score of 4 or 5 - ECON 101 5 Semester Units</td>
<td>Area D2 3 semester units</td>
<td>3 semester units</td>
<td>Area 4B 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>Economics - Microeconomics</td>
<td>Social &amp; Behavioral Science 3 semester units Score of 4 or 5 - ECON 102 5 Semester Units</td>
<td>Area D2 3 semester units</td>
<td>3 semester units</td>
<td>Area 4B 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>English - Language &amp; Composition</td>
<td>ENGL 101</td>
<td>Area A2 3 semester units</td>
<td>6 semester units</td>
<td>Area 1A 3 semester units</td>
<td>8 quarter/5.3 semester units*</td>
</tr>
<tr>
<td>English - Literature &amp; Composition</td>
<td>ENGL 101, LIT 102 6.5 semester units</td>
<td>Area A2 and C2 6 semester units</td>
<td>6 semester units</td>
<td>Area 1A or 3B 3 semester units</td>
<td>8 quarter units/5.3 semester units*</td>
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<td></td>
<td></td>
<td>**</td>
<td></td>
<td></td>
<td>**</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>Natural Science w/Lab 4 semester units</td>
<td>Area B2 and B3 (if taken prior to Fall 2009) or Area B1 and B3 (regardless of when taken) 4 semester units</td>
<td>4 semester units</td>
<td>Area 5A (with lab) 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>French Language</td>
<td>Humanities</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>French Literature</td>
<td>Humanities</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
</tbody>
</table>

*Continued on next page.*
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.

<table>
<thead>
<tr>
<th>EXAM</th>
<th>RHC AA (MAJOR AND/OR GE) Score of 3 or better for subject area unless otherwise indicated</th>
<th>CSU GE</th>
<th>CSU - UNITS EARNED TOWARD TRANSFER</th>
<th>IGETC</th>
<th>UC - UNITS EARNED TOWARD TRANSFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>German Language</td>
<td>Humanities 3 semester units</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Government &amp; Politics - Comparative</td>
<td>Social &amp; Behavioral Science 3 semester units</td>
<td>Area D8</td>
<td>3 semester units</td>
<td>Area 4H</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>Government and Politics - U.S.</td>
<td>POLS 110 3 semester units</td>
<td>Area D8 and US 2* 3 semester units</td>
<td>3 semester units</td>
<td>Area 4H 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>History - European</td>
<td>Social &amp; Behavioral Science or Humanities 3 semester units</td>
<td>Area C2 or D6 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B or 4F 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>History - U.S.</td>
<td>HIST 143, 144 6 semester units</td>
<td>Area C2 or D6 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B or 4F 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>History - World</td>
<td>Social &amp; Behavioral Science or Humanities 3 semester units</td>
<td>Area C2 or D6 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B or 4F 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Human Geography</td>
<td>Social &amp; Behavioural Science 3 semester units</td>
<td>Area D5</td>
<td>3 semester units</td>
<td>Area 4E</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>Italian Language &amp; Culture</td>
<td>Humanities 3 semester Units</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture</td>
<td>Humanities 3 semester Units</td>
<td>Area C2</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Latin - Vergil</td>
<td>Humanities 3 semester Units</td>
<td>Area C2</td>
<td>3 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>Latin - Literature</td>
<td>Humanities 3 Semester Units</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>Music Theory</td>
<td>Area C1 (if taken prior to Fall 2009) 3 semester units</td>
<td>6 semester units</td>
<td>N/A</td>
<td>8 quarter/5.3 semester units</td>
<td></td>
</tr>
<tr>
<td>Physics B</td>
<td>Natural Science w/ Lab 4 semester units</td>
<td>B1 and B3 4 semester units*</td>
<td>6 semester units</td>
<td>Area 5A (with lab) 4 semester units</td>
<td>8 quarter/5.3 semester units**</td>
</tr>
<tr>
<td>Physics 1</td>
<td>Natural Science w/ Lab 4 semester units</td>
<td>B1 and B3 4 semester units*</td>
<td>4 semester units</td>
<td>Area 5A (with lab) 3 semester units</td>
<td>4 quarter/2.7 semester units**</td>
</tr>
<tr>
<td>Physics 2</td>
<td>Natural Science w/ Lab 4 semester units</td>
<td>B1 and B3 4 semester units*</td>
<td>4 semester units</td>
<td>Area 5A (with lab) 3 semester units</td>
<td>4 quarter/2.7 semester units**</td>
</tr>
<tr>
<td>Physics C - Mechanics</td>
<td>Natural Science w/ Lab 4 semester units</td>
<td>Area B1 and B3 4 semester units*</td>
<td>4 semester units</td>
<td>Area 5A (with lab) 3 semester units</td>
<td>4 quarter/2.7 semester units**</td>
</tr>
<tr>
<td>Physics C - Magnetism</td>
<td>Natural Science w/ Lab 4 semester units</td>
<td>Area B1 and B3 4 semester units*</td>
<td>4 semester units</td>
<td>Area 5A (with lab) 3 semester units</td>
<td>4 quarter/2.7 semester units**</td>
</tr>
<tr>
<td>AP PHYSICS EXAM LIMITATIONS</td>
<td>*Maximum 4 semester units toward GE and 4 semester units toward transfer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology</td>
<td>Social &amp; Behavioral Science 3 semester units</td>
<td>Area D9 3 semester units</td>
<td>3 semester units</td>
<td>Area 4L 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>SPAN 101, 102 8 semester units</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>SPAN 201 4 semester units</td>
<td>Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>Statistics</td>
<td>Communication &amp; Analytical Thinking 3 semester units</td>
<td>Area B4 3 semester units</td>
<td>3 semester units</td>
<td>Area 2 3 semester units</td>
<td>4 quarter/2.7 semester units</td>
</tr>
</tbody>
</table>

Note: *Does not fulfill AHI California Government requirement. Student can satisfy the AHI requirement after transfer.
**Credit by External Examination**

**College Level Examination Program (CLEP)**

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

<table>
<thead>
<tr>
<th>CLEP EXAM</th>
<th>PASSING SCORE FOR CSU CREDIT</th>
<th>MIN. SEM. UNITS EARNED FOR ADMISSION</th>
<th>CSU-GE AREA/ CERTIFICATION UNITS</th>
<th>RIO HONDO GE AREA CREDIT</th>
<th>PASSING SCORE FOR RIO HONDO CREDIT</th>
<th>RIO HONDO EQUIVALENT COURSE (FOR ASSOCIATE DEGREE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>50</td>
<td>3 units</td>
<td>D8 3 units</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>American Literature</td>
<td>50</td>
<td>3 units</td>
<td>C2 3 units</td>
<td>Humanities</td>
<td>50</td>
<td>LIT 112A/B</td>
</tr>
<tr>
<td>Analyzing and Interpreting Literature</td>
<td>50</td>
<td>3 units</td>
<td>C2 3 units</td>
<td>Humanities</td>
<td>50</td>
<td>LIT 102</td>
</tr>
<tr>
<td>Biology</td>
<td>50</td>
<td>3 units</td>
<td>B2 3 units</td>
<td>Natural Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Calculus</td>
<td>50</td>
<td>3 units</td>
<td>B4 3 units</td>
<td>Language &amp; Rationality</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Chemistry</td>
<td>50</td>
<td>3 units</td>
<td>B1 3 units</td>
<td>Natural Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>College Algebra</td>
<td>50</td>
<td>3 units</td>
<td>B4 3 units</td>
<td>Language &amp; Rationality</td>
<td>50</td>
<td>NA</td>
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<tr>
<td>College Algebra-Trigonometry</td>
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<td>B4 3 units</td>
<td>Language &amp; Rationality</td>
<td>50</td>
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<tr>
<td>College Comp.</td>
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<td>ENGL 101</td>
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<td>Language &amp; Rationality</td>
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<td>ENGL 101</td>
</tr>
<tr>
<td>English Comp. (no essay)</td>
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<td>NA</td>
<td>Language &amp; Rationality</td>
<td>50</td>
<td>ENGL 101 (if taken before July '10)</td>
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<tr>
<td>English Comp. (with essay)</td>
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<td>NA</td>
<td>Language &amp; Rationality</td>
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<td>ENGL 101 (if taken before July '10)</td>
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<tr>
<td>English Literature</td>
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<td>C2 3 units</td>
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<td>LIT 146A/B</td>
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<tr>
<td>Financial Accounting</td>
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<td>50</td>
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<tr>
<td>French Level I</td>
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<td>6 units</td>
<td>NA</td>
<td>NA</td>
<td>80</td>
<td>FR 101/102</td>
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<tr>
<td>French Level II</td>
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<td>12 units</td>
<td>C2 3 units</td>
<td>Humanities</td>
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<td>FR 201</td>
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<tr>
<td>Freshman College Composition</td>
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<td>NA</td>
<td>Language &amp; Rationality</td>
<td>50</td>
<td>ENGL 101 (if taken before July '10)</td>
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<tr>
<td>German Level I</td>
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<td>NA</td>
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<td>German Level II</td>
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<td>12 units</td>
<td>C2 3 units</td>
<td>Humanities</td>
<td>60</td>
<td>NA</td>
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</table>

*Continued on next page.*
Continued from previous page.

<table>
<thead>
<tr>
<th>CLEP EXAM</th>
<th>PASSING SCORE FOR CSU CREDIT</th>
<th>MIN. SEM. UNITS EARNED FOR ADMISSION</th>
<th>CSU-GE AREA/ CERTIFICATION UNITS</th>
<th>RIO HONDO GE AREA CREDIT</th>
<th>PASSING SCORE FOR RIO HONDO CREDIT</th>
<th>RIO HONDO EQUIVALENT COURSE (FOR ASSOCIATE DEGREE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>History, US I</td>
<td>50</td>
<td>3 units</td>
<td>D6+US-1 3 units</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>History, US II</td>
<td>50</td>
<td>3 units</td>
<td>D6+US-1 3 units</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
<td>50</td>
<td>3 units</td>
<td>E 3 units</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Humanities</td>
<td>50</td>
<td>3 units</td>
<td>C2 3 units</td>
<td>Humanities</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Information Systems &amp; Comp. Applications</td>
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<td>3 units</td>
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<td>NA</td>
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<td>CIT 101</td>
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<td>Intro to Educ. Psychology</td>
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<td>3 units</td>
<td>NA</td>
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<tr>
<td>Introductory Business Law</td>
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<td>3 units</td>
<td>NA</td>
<td>NA</td>
<td>50</td>
<td>BUSL 110</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>50</td>
<td>3 units</td>
<td>D9 3 units</td>
<td>Social/Behavioral Sciences</td>
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<td>NA</td>
</tr>
<tr>
<td>Introductory Sociology</td>
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<td>D0 3 units</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>50</td>
<td>3 units</td>
<td>B1 or B2 3 units</td>
<td>Natural Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Pre-Calculus</td>
<td>50</td>
<td>3 units</td>
<td>B4 3 units</td>
<td>Language &amp; Rationality</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>50</td>
<td>3 units</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>50</td>
<td>3 units</td>
<td>D2 3 units</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>50</td>
<td>3 units</td>
<td>D2 3 units</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
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<tr>
<td>Principles of Management</td>
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<td>3 units</td>
<td>NA</td>
<td>NA</td>
<td>50</td>
<td>MGMT 150</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>50</td>
<td>3 units</td>
<td>NA</td>
<td>NA</td>
<td>50</td>
<td>MRKT 170</td>
</tr>
<tr>
<td>Spanish Level I</td>
<td>50</td>
<td>6 units</td>
<td>NA</td>
<td>Humanities</td>
<td>50</td>
<td>SPAN 101/102</td>
</tr>
<tr>
<td>Spanish Level II</td>
<td>63</td>
<td>12 units</td>
<td>C2 3 units</td>
<td>Humanities</td>
<td>63</td>
<td>SPAN 201</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>50</td>
<td>3 units</td>
<td>B4 3 units</td>
<td>Language &amp; Rationality</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Western Civilization I</td>
<td>50</td>
<td>3 units</td>
<td>C2 or D6 3 units</td>
<td>Humanities or S/B Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
<tr>
<td>Western Civilization II</td>
<td>50</td>
<td>3 units</td>
<td>D6</td>
<td>Social/Behavioral Sciences</td>
<td>50</td>
<td>NA</td>
</tr>
</tbody>
</table>

AA: Students will get specific course credit only where a Rio 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 AA 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 IGETC.

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

2015-2016 Catalog
## Credit by External Examination
### International Baccalaureate (IB)

<table>
<thead>
<tr>
<th>EXAM</th>
<th>RHC AA GE Area Credit</th>
<th>CSU GE Score of 5 or better, unless noted otherwise</th>
<th>CSU - UNITS EARNED TOWARD TRANSFER</th>
<th>IGETC</th>
<th>UC - UNITS EARNED TOWARD TRANSFER</th>
</tr>
</thead>
<tbody>
<tr>
<td>IB Biology HL</td>
<td>Natural Science</td>
<td>Area B2 3 semester units</td>
<td>6 semester units</td>
<td>Area 5B 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td></td>
<td>Clearance for BIOL 111L or 120L</td>
<td>3 semester units</td>
<td></td>
<td>Area 5A 3 semester units</td>
<td></td>
</tr>
<tr>
<td>IB Chemistry HL</td>
<td>Natural Science</td>
<td>Area B1 3 semester units</td>
<td>6 semester units</td>
<td>Area 4B 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Economics HL</td>
<td>Social/Behavioral Sciences</td>
<td>Area D2 3 semester units</td>
<td>6 semester units</td>
<td>Area 4E 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Geography HL</td>
<td>Social/Behavioral Sciences</td>
<td>Area D3 3 semester units</td>
<td>6 semester units</td>
<td>Area 4E 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB History (any region) HL</td>
<td>Humanities or Social/Behavioral Sciences</td>
<td>Area C2 or D6 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B or 4F 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Language A1 (any language, except English) HL</td>
<td>Humanities</td>
<td>Score of 4 or better Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Language A2 (any language, except English) HL</td>
<td>Humanities</td>
<td>Score of 4 or better Area C2 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B and 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Language A1 (any language) HL</td>
<td>Humanities</td>
<td>Score of 4 or better Area C2 (through F'13) 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Language A2 (any language) HL</td>
<td>Humanities</td>
<td>Score of 4 or better Area C2 (through F'13) 3 semester units</td>
<td>6 semester units</td>
<td>Area 3B 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Language B (any language) HL</td>
<td>Humanities</td>
<td>Score of 4 or better N/A</td>
<td>6 semester units</td>
<td>Area 6A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Mathematics HL</td>
<td>Language &amp; Rationality</td>
<td>Area B4 3 semester units</td>
<td>6 semester units</td>
<td>Area 2A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Physics HL</td>
<td>Natural Science</td>
<td>Area B1 3 semester units</td>
<td>6 semester units</td>
<td>Area 5A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Psychology HL</td>
<td>Social/Behavioral Science</td>
<td>Area D9 3 semester units</td>
<td>3 semester units</td>
<td>Area 4I 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
<tr>
<td>IB Theatre HL</td>
<td>Fine Arts</td>
<td>Score of 4 or better Area C1 3 semester units</td>
<td>6 semester units</td>
<td>Area 3A 3 semester units</td>
<td>8 quarter/5.3 semester units</td>
</tr>
</tbody>
</table>
Degree Programs

Rio Hondo College offers a variety of two-year programs leading to the Associate of Arts (A.A.) or Associate of Science (A.S.) 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 educational plan in order to ensure fulfillment of requirements of an Associate of Arts or Associate of Science degree.

General Education Exceptions – Those students who have been awarded a bachelor’s degree from an accredited college or university in the United States will be exempt from the Rio Hondo College general education and proficiency requirements, should they pursue an associate degree at this institution. Please see a counselor if additional clarification is desired.

Course Substitutions –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 by the Articulation Officer. Rio Hondo College may accept extension and continuing education courses after taking into consideration if they are equivalent to Rio Hondo courses, are from an accredited Institution, are taken for credit and 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 Sciences degrees require a minimum of 60 units with a 2.0 or better grade-point average (GPA). At least 12 units of those 60 must be in residence at Rio Hondo College. Non-degree applicable coursework will not be included in the total number of units earned toward a major.

The degree of Associate of Arts or Associate of Science will be conferred with a major consisting of a minimum of 18 units in a specified field of study (or major). A listing of all majors can be found in the degree listing in the college catalog. In addition, a minimum of a “C” grade for all coursework within the major is required. 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 a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. 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. 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 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor’s degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college 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, Business Administration, Early Childhood Education, Mathematics and Physics.

Associate in Arts Degree for Transfer (AA-T)

AA-T subject areas include: Anthropology, Art History, Communication Studies, English, History, Journalism, Kinesiology, Political Science, Psychology, Sociology, Spanish, Studio Arts, and Theatre Arts.

There are no additional graduation requirements for an AA-T or AS-T degree.

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 Rio Hondo College for the same degree. Students must initiate the review process with a counselor and must mail official transcripts to the RHC Office of Admissions.
**Associate of Arts Degree or Associate of Science Degree**

**General Education Requirements**

The following general education requirements for an Associate of Arts or Associate of Science degree must be completed and are part of the 60 units required for the degree.

1. Competence in reading and written expression may be met by the following:
   a. The reading requirement may be met by one of the following:
      i. An appropriate score on the Reading Placement Test
      ii. Credit ("P" grade) earned in READ 023
   b. The written expression requirement may be met by one of the following:
      i. Credit earned in ENGL 101 with a grade of "C" or better
      ii. A satisfactory score on the CSU English Equivalency Exam (to be determined by the Division of Communications and Languages)
   c. Advanced Placement examination scores of 3, 4, or 5 on either of the following exams: AP English Language & Composition or English Literature & Composition.
   d. 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 '10).

2. Competence in mathematics may be met by one of the following:
   a. Credit ("C" grade or better) in MATH 060 (Geometry), MATH 070 (Intermediate Algebra) or MATH 072 (The Mathematics of Money), MATH 073 (Fast-Track Intermediate Algebra) or a higher level math course
   b. Demonstrate proficiency by a satisfactory score on the Rio Hondo College Math Proficiency Exam
   c. Advanced Placement examination scores of 3, 4 or 5 on either of the following exams: AP Calculus AB or 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, and Trigonometry

   Any two physical education or dance activity courses. 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 awarded two 1-unit PE activity courses. (Exemption may be granted to those students physically unable to complete this requirement. Exemption forms are available in the Health Office.)

4. American Institutions Requirement*-Minimum of one course:
   HIST 143, 143H, 144, 144H, 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 or 114
   BIOL 101, 111 & 111L, 112, 120 & 120L
   CHEM 101& 101L, 110, 120, 130
   GEOG 101 & 101L
   GEOL 150 & 151

6. Social and Behavioral Sciences - Minimum 3 units:
   ANTH 102, 103, 110, 115, 125
   CD 106, 208
   CHST 101, 146, 148, 150
   ECON 101, 101H, 102, 102H, 106, 135
   GEOG 102, 103
   HIST 101, 102, 122, 143, 143H, 144, 144H, 158, 159, 159H, 167, 170
   HUM 130
   PHIL 128
   POLS 110, 110H, 125, 128, 130, 135, 140, 150
   PSY 101, 101H, 112, 114, 116
   SOC 101, 101H, 102, 105, 110, 114, 116, 120, 127, 148

7. Humanities
   A. Fine Arts – Minimum 3 units:
   DANC 179, 199
   MUS 101, 129, 130, 131, 132, 133, 135, 136
   PHTO 190
   THTR 101, 105, 105H, 110
   B. Humanities – Minimum 3 units:
   ASL 149
   CHIN 101, 102
   CHST 146
   ENGL 126, 131
   FR 101, 102, 201, 202
   HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 158, 159, 159H, 167, 170
   HUM 110, 111, 125, 125H, 158, 159, 159H, 167, 170
   ITAL 101, 102
   JAPN 101, 102
   LATIN 101, 102
   MSCM 128
   PHIL 101, 101H, 120, 124, 126, 135, 140
   SPAN 101, 102, 130, 131, 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, 115, 120
   ENGL 125, 201, 201H
   LIB 101
   MATH 120, 130, 130H, 140, 160, 170, 175, 180, 190, 190H, 191, 250, 260, 270
   PSY 190
   PHIL 110, 112
   PHIL 101, 101H, 102, 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**
A student may be eligible to declare more than one major providing that all required courses and units for each major are completed.

**Second Associate Degrees**
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(s).

**Catalog Rights**
A student may elect to meet the graduation requirements in effect at the time of entrance or at the time of graduation provided that he/she maintains 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 Rio 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 extension 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. Applications are available from the Admissions and Records Office. Deadlines for filing graduation petitions are available on the Rio Hondo web site, under the Admissions and General Information link. Please note that Rio Hondo College only 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.

There are three different certificates available to students:
- The Certificate of Achievement is designed to prepare students for entry-level employment in a vocational area. Awarded through Admissions and Records.
- The Certificate of Skill Proficiency provides the student with skills designed to enhance their job marketability and mobility. Awarded through the designated Division Office.
- The Career Certificate prepares students for specific job opportunities. Awarded through the designated Division Office.

Specific requirements for certificates are listed in this catalog. 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 he/she maintains 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 of achievement program and complete at least one required course for the certificate at Rio Hondo College.

Upon completion of required Certificate of Achievement courses, students must file an application with the Admissions and Records Office in order to receive the certificate. Applications are available from the Admissions and Records Office. Deadlines for filing a Certificate of Achievement application are available at: www.riohondo.edu. Certificates of Achievement are awarded through the Admissions and Records Office and appear on student records/transcripts. All other certificates are awarded through the designated divisions and do not appear on student records/transcripts.

**Exceptions to 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 by the Dean of Counseling.

To receive a Career Certificate or a Certificate of Skills Proficiency, a student should petition through the appropriate academic department and be aware that completion of such certificates will not be posted on their academic transcripts.
Transfer

Transfer Programs
Students whose goal is to transfer to a four-year institution should identify which transferable courses are required for both their major and general education. Students are strongly encouraged to meet with a counselor to develop an academic program best suited for their transfer institution and intended major.

Assistance in developing an educational plan to transfer to a university is advisable through contact with the counselor. 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, Computer Resource Lab.

Rio 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 his or her transfer university as early as possible. Students are advised to complete the courses at Rio 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.”

Planning a Transfer Program
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. Rio Hondo College has articulated courses with the California State University and University of California campuses as well as independent colleges and universities.

The Transfer Center has a collection of college catalogs as well as 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). 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 plan their program at Rio Hondo College to include the required lower-division courses of the four-year institution. Students should work closely with counselors when choosing courses at Rio Hondo College. It is possible, in most cases, to fulfill both major and general education lower-division requirements for the college or university of their choice as well as the requirements for the associate degree at Rio Hondo College.

Impacted Programs
The term impacted, when applied to a program or major, means that the program usually attracts many more applicants than it can accept. Consequently, there are special requirements and selection procedures for admission. Students intending to transfer and pursue these majors should consult with a counselor and visit the transfer center to request its most recent admissions information.

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 Rio 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 requirements, major requirements, 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.

Students that have completed 60 transferable semester units (90 quarter units) with a 2.0 grade point average (2.4 for non-resident students) completed by the time of entry to a CSU, are considered an upper division applicant. 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 transferable course in mathematics. All of these courses must be completed with a “C” or better (see Area A and B4 on the Rio Hondo College CSU-GE pattern or Areas 1 and 2 on IGETC)

Certain “impacted” programs, which have more applicants than there are spaces available, have additional screening requirements. Visit the Transfer Center for more details.

Note: Some CSU campuses may accept a limited number of lower-division transfer applicants (applicants with fewer than 60 transferable units). Lower-division transfer applicants will be held to specified CSU eligibility standards. Check with a counselor and CSU mentor: www.csumentor.edu for details.

The Lower-Division Transfer Patterns (LDTP) project presents potential transfer students from California Community Colleges with road maps to follow that ensure appropriate academic preparation for studies at CSU and decrease time to graduation from the CSU. For more information about LDTP visit www.csumentor.edu.

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 Certification**

Certification means that Rio 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 requirements. (Please note that 9 units of upper-division general education courses must be completed at the CSU after transfer.) For full certification, a minimum of nine units must be completed in each of Areas A, B, C, and D and one course must be completed in Area E from the CSU-GE pattern. Courses in Area A and Area B4 must be completed with a “C” or better. The overall grade-point average for the remainder of the courses must be at least a 2.0.

It is the student’s responsibility to request certification. To obtain the certification, students must file a Transcript Request Form at 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.csumentor.edu. 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 an application workshop before beginning the application process. Remember applications are submitted one year prior to transferring.

The priority filing periods are:

**Semester System Campuses**
- Fall Semester: October 1-November 30
- Spring Semester: August 1-31

**Quarter System Campuses**
- Fall Quarter: October 1- November 30
- Winter Quarter: June 1-30
- Spring Quarter: August 1-31
- Summer Quarter: February 1-28

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CSU General Education Breadth Course Requirements

The CSU-GE Breadth is an agreement between Rio Hondo and the CSU campuses regarding general education requirements. This list of courses is regularly updated. 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 CSU-GE Breadth is only one way to fulfill the lower-division, general education requirements for the CSU. Students may also use the 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, 102, 140

A2: Written Communication
ENGL 101

A3: Critical Thinking
ENGL 201, 201H
PHIL 110, 112
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 Science
ASTR 110, 110H, 112*, 114*
CHEM 101, 101L*, 110*, 120*, 130*, 140* 230*, 231*
GEOG 101, 101L*
GEOG 150, 151*
PHY 120*, 150*, 211*, 212*, 213*
PHYS 101*, 102*

B2: Life Science
ANTH 101, 101H, 101L*
BIOL 101*, 105, 111, 111L*, 112*, 120, 120L*, 200*, 201*, 222*,226*
PSY 210, 210H

B3: Laboratory Activity
All lab courses are identified by * in Groups B1 and B2 above.

B4: Mathematics/Quantitative Reasoning
MATH 120, 130, 130H, 140, 160, 170, 175, 180, 190, 190H, 191, 250, 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)
DANC 179, 199
MUS 101, 120, 129, 130, 131, 132, 133, 134, 135, 136
PHTO 190
THTR 101, 105, 105H, 110, 150

C2: Humanities (Literature, Philosophy, Foreign Languages)
ASL 149
CHIN 101, 102

CHST 146
ENGL 126
FR 101, 102, 201, 202
HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 158, 159, 159H, 167, 170
HUM 110, 111, 125, 125H
ITAL 101, 102
JAPN 101, 102
LATN 101, 102
PHIL 101, 101H, 120, 124, 126, 128, 135, 140, 144H, 158, 159, 159H, 167, 170; CHST 146

AREA D: Social Sciences: 9 units required with courses in at least two groups. (3 courses/9 units minimum)

D1: Anthropology and Archeology: ANTH 101, 101H, 102, 102H, 103, 115, 125

D2: Economics: ECON 101, 101H, 102, 102H, 106, 135

HIST 131, 158, 159, 159H; HUM 130;
POLS 150; SOC 148

D4: Gender Studies HIST 170, SOC 120

D5: Geography: GEOG 102, 103

D6: History: HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 158, 159, 159H, 167, 170; CHST 146

D7: Interdisciplinary Social or Behavioral Science: CD 208
SOC 127

D8: Political Science, Government, & Legal Institutions:
CHST 150, ECON 135, PHIL 128, POLS 110, 110H,125, 128, 130, 135, 140, 150

D9: Psychology: CD 106, 208;
PSY 101, 101H, 112, 116, 170, 180, 200

D0: Sociology and Criminology:
ANTH 110; SOC 101, 101H, 102, 105, 110, 114, 116, 120, 127

HIGHLY RECOMMENDED: All CSU campuses have a graduation requirement in U.S. History, Constitution and American Ideals. Students may be certified as completing this requirement at Rio Hondo College by taking POLS 110 or 110H and one of the following History courses: HIST 143, 143H, 144, 144H, 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 from the following:

ANTH 110; CD 106
COUN 101, 151 or 151A, 151B, 151C

(NOTE: The entire sequence of 151 A-C must be completed for a total of 3 units)

DD 214 (see counselor for details)
KIN 191, 192, 196;
PSY 112, 121, 123
SOC 105, 110

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.
Transferring to University of California (UC)
The University of California has 10 campuses located throughout the state. Admission representatives from local UC campuses visit the Rio Hondo College Transfer Center on a regular basis. Please check with the Transfer Center for more detailed information.

Course requirements vary from one University of California (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’ 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 course work in a major before transfer, and some majors require a higher grade point average than designated for general admission. See a Rio 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.

Transfer Admission Requirements
To be eligible for admission to a UC as a transfer student, a student must fulfill the following criteria:
A. Complete 60 UC transferable semester units (90 quarter units) with a minimum GPA of 2.4 (2.8 for non-residents); AND
B. 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 General Education Transfer 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
C. Complete as many major preparation courses as possible. Major preparation may be viewed at 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. Rio 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 at the Office of Admissions and Records. The final transcript and general education certification will then be sent to the UC.

UC Impacted Majors
Some majors at UCLA and other UC campuses are highly competitive or “impacted”. This means that certain courses in the major must be completed with achievement of a high GPA prior to transfer. Please consult with a counselor or visit the Transfer Center for details.

Transfer Admission Guarantee (TAG)
The Transfer Admission Guarantee (TAG) program offers guaranteed admission to the students who complete a core set of courses at Rio 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. Rio Hondo College has agreements with seven UCs (UC Davis, UC Irvine, UC Merced, UC Riverside, UC San Diego, UC Santa Barbara, and UC Santa Cruz). TAG requirements vary by UC campus. For further information meet with the Transfer Counselor.

UC Application
Applications for admission to the UC system are available online at www.universityofcalifornia.edu/apply. NOTE: The UCs require students to write a personal statement. Visit the Transfer Center for more information.

UC Application Filing Periods
Students are encouraged to attend an application workshop before beginning the application process. Remember applications are submitted one year prior to transferring.

The priority filing periods are:
Fall Quarter/Semester: November 1-30
Winter Quarter: July 1-31
Spring Quarter: October 1-31

All UC campuses accept applicants for fall admission. To determine which UC campus accepts 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 Rio Hondo and the CSU and UC campuses regarding general education requirements. The IGETC list of courses was developed first in 1991 and is regularly updated. 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 only one way to fulfill the lower-division, general education requirements of a CSU or UC campus, and 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 their 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*

One course of 3 semester/4 quarter units

ENGL 201 or 201H, PHIL 110

1C – *Oral Communications:* (CSU only) One course of 3 semester/4 quarter units.

SPCH 100, 101, 101H, 102, 140

**Area 2: MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING**

One course: 3 semester/4 quarter units

MATH 120, 130+, 130H+, 160+, 170+, 180+, 190+, 190H, 191, 250, 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 - 9 semester/12 quarter units.

3A: ARTS (3 units minimum):


112, 113, 115

DANC 179, 199

MUS 129, 130, 131, 132, 133, 135, 136

THTR 101, 105, 105H

3B: HUMANITIES (3 units minimum):

CHST 146

ENGL 126

FR 102, 201, 202

HIST 101, 102, 122, 131, 143, 143H, 144, 144H, 158, 159, 159H, 167, 170

HUM 110, 111, 125, 125H

ITAL 102

JAPN 101

LATN 101

SPAN 101, 102, 130, 131, 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.

**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, 158, 159, 159H, 170

**CERTIFICATION** – These units are general education requirements for the UC and CSU systems. Rio Hondo College will certify these courses. Request for IGETC certification can be made on the Transcript Request Form. 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 competence 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 log on to www.assist.org.
Transferring to Independent Colleges & Universities
Each year many Rio Hondo students go on to pursue their fields of interest and earn a degree at an independent four-year institution. Admission requirements and general education requirements vary from college to college. To make transferring to a private or independent college as smooth as possible, students should obtain a catalog from that college and work closely with a counselor to plan their course of study.

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. Rio Hondo College has developed articulation agreements with many independent colleges and universities. Transfer students who plan to attend a private college or university are encouraged to consult with a counselor to plan their academic plan. For information regarding deadlines and articulation agreements, students should visit the Transfer Center.

For information regarding all transfer deadlines, students should consult with Rio Hondo College counselors or 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.californiaccolleges.edu
- California Independent Colleges and Universities: http://www.aiccu.edu
- California State University: http://www.csumentor.edu
- 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
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Occasionally offerings will not be available in a particular program. Please contact the division for more information about availability.

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<th>AS</th>
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<th>Certificate of Achievement</th>
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<tbody>
<tr>
<td>General Studies (Emphasis in Arts and Human Expression)</td>
<td>•</td>
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</tr>
<tr>
<td>General Studies (Emphasis in Science and Mathematics)</td>
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<td>General Studies (Emphasis in Social Behavior and Self-Development)</td>
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<tr>
<td>General Studies (Emphasis in Social Sciences)</td>
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<tr>
<td>Geographic Information Systems</td>
<td>•</td>
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</tr>
<tr>
<td>Heavy Equipment Technology</td>
<td>•</td>
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</tr>
<tr>
<td>Heavy Equipment Service Technician - Specialist</td>
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<tr>
<td>History for Transfer</td>
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<tr>
<td>Honda Professional Career Training Program Specialization (PACT)</td>
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<tr>
<td>Honda/Acura Air Conditioning and Supplemental Restraint Systems</td>
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<tr>
<td>Honda/Acura Brakes, Suspension, and Electronic Systems</td>
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<tr>
<td>Honda/Acura Engine Repair and Chassis Electrical Systems</td>
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</tr>
<tr>
<td>Honda/Acura Power Train and Transmission Systems</td>
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<td>International Business</td>
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<tr>
<td>Journalism for Transfer</td>
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<td>Kinesiology for Transfer</td>
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<td>Logistics Management</td>
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<td>Management and Supervision</td>
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<td>Music</td>
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<tr>
<td>Philosophy</td>
<td>•</td>
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<td>Philosophy for Transfer</td>
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<tr>
<td>Photography</td>
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<td>Physics for Transfer</td>
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<tr>
<td>Preschool Teacher</td>
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<tr>
<td>Safety, Comfort and Convenience Systems</td>
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<tr>
<td>Small Business/Entrepreneurialism</td>
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<tr>
<td>Sociology for Transfer</td>
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<td>Spanish for Transfer</td>
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<td>Studio Arts for Transfer</td>
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<tr>
<td>Surveying, Mapping &amp; Drawing</td>
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<tr>
<td>Theatre Arts</td>
<td>•</td>
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<td>157</td>
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<tr>
<td>Theatre Arts for Transfer</td>
<td>•</td>
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<tr>
<td>Transmission Service</td>
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<tr>
<td>Vocational Nursing</td>
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<tr>
<td>Welding Technology</td>
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<tr>
<td>Wildland Fire Technology</td>
<td>•</td>
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</tbody>
</table>

**Program of Study**

<table>
<thead>
<tr>
<th>Program of Study</th>
<th>Skill Proficiency Certificate</th>
<th>Career Certificate</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>Accounting for Government and Non-Profit Organizations</td>
<td>•</td>
<td></td>
<td>61</td>
</tr>
<tr>
<td>Athletic Trainer’s Aide</td>
<td>•</td>
<td></td>
<td>121</td>
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<tr>
<td>Basic Police Training</td>
<td>•</td>
<td></td>
<td>149</td>
</tr>
<tr>
<td>Certified Nurse Assistant Acute Care</td>
<td>•</td>
<td></td>
<td>139</td>
</tr>
<tr>
<td>Computerized Accounting</td>
<td>*</td>
<td></td>
<td>61</td>
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<tr>
<td>Desktop Technician</td>
<td>•</td>
<td></td>
<td>89</td>
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<tr>
<td>Emergency Medical Technician</td>
<td>•</td>
<td></td>
<td>97</td>
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<tr>
<td>Entry Network Technician</td>
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<td></td>
<td>89</td>
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<tr>
<td>Game Development</td>
<td>•</td>
<td></td>
<td>106</td>
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<tr>
<td>Home Health Aide</td>
<td>•</td>
<td></td>
<td>139</td>
</tr>
<tr>
<td>Human Services</td>
<td>•</td>
<td></td>
<td>118</td>
</tr>
<tr>
<td>Income Tax Preparer</td>
<td>*</td>
<td></td>
<td>61</td>
</tr>
<tr>
<td>Network Technician</td>
<td>•</td>
<td></td>
<td>89</td>
</tr>
<tr>
<td>Nurse Assistant Pre-Certification Training Course</td>
<td>•</td>
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<td>139</td>
</tr>
<tr>
<td>PC Repair Technician</td>
<td>*</td>
<td></td>
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</table>

Skill Proficiency and Career Certificates are Division issued certificates only and are not listed on a student’s transcript.
ACCOUNTING
DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in the Accounting program 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, it is necessary to complete the graduation requirements of the College along with the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting ................................ 4</td>
</tr>
<tr>
<td>ACCT 102*</td>
<td>Managerial Accounting ................................ 4</td>
</tr>
<tr>
<td>ACCT 103</td>
<td>Payroll Accounting .................................... 3</td>
</tr>
<tr>
<td>ACCT 106</td>
<td>Computerized Accounting ................................ 3</td>
</tr>
<tr>
<td>ACCT 203*</td>
<td>Introduction to Cost Accounting ...................... 3</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>Legal Environment of Business ......................... 3</td>
</tr>
<tr>
<td>CIT 107</td>
<td>Microsoft® Excel® ...................................... 3</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>Introduction to Business ................................ 3</td>
</tr>
<tr>
<td>ENGL 101 or</td>
<td>*College Composition &amp; Research ...................... 3.5</td>
</tr>
<tr>
<td>MGMT 108</td>
<td>Business Writing ........................................ 3</td>
</tr>
</tbody>
</table>

Choose a minimum of 6 units from the following:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCT 104</td>
<td>* Introduction to Government and Not-For-Profit Accounting .......................... 3</td>
</tr>
<tr>
<td>ACCT 105</td>
<td>Income Tax Accounting .................................. 4</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>*Intermediate Accounting I ............................. 3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>*Intermediate Accounting II ............................ 3</td>
</tr>
<tr>
<td>ACCT 290*</td>
<td>CWE/Internship for Accounting Related Fields ....................... 1-4</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Introduction to Financial Planning .................... 3</td>
</tr>
</tbody>
</table>

Units Required 35 - 35.5

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting .................................. 4</td>
</tr>
<tr>
<td>ACCT 102</td>
<td>*Managerial Accounting ................................ 4</td>
</tr>
<tr>
<td>ACCT 103</td>
<td>Payroll Accounting ..................................... 3</td>
</tr>
<tr>
<td>ACCT 106</td>
<td>Computerized Accounting ................................ 3</td>
</tr>
<tr>
<td>ACCT 203</td>
<td>*Introduction to Cost Accounting ..................... 3</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>Legal Environment of Business ......................... 3</td>
</tr>
<tr>
<td>CIT 107</td>
<td>Microsoft® Excel® ....................................... 3</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>Introduction to Business ................................ 3</td>
</tr>
<tr>
<td>ENGL 101 or</td>
<td>*College Composition &amp; Research ...................... 3.5</td>
</tr>
<tr>
<td>MGMT 108</td>
<td>Business Writing ......................................... 3</td>
</tr>
</tbody>
</table>

Choose a minimum of 6 units from the following:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 104</td>
<td>* Introduction to Government and Not-For-Profit Accounting .......................... 3</td>
</tr>
<tr>
<td>ACCT 105</td>
<td>Income Tax Accounting .................................. 4</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>*Intermediate Accounting I ............................. 3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>*Intermediate Accounting II ............................ 3</td>
</tr>
<tr>
<td>ACCT 290</td>
<td>CWE/Internship for Accounting Related Fields ....................... 1-4</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Introduction to Financial Planning .................... 3</td>
</tr>
</tbody>
</table>

Units Required 35 - 35.5

*Prerequisite
### Certificate of Skill Proficiency: Computerized Accounting

The Computerized Accounting Certificate 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.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
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<tr>
<td>ACCT 103</td>
<td>3</td>
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<td>ACCT 106</td>
<td>3</td>
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<tr>
<td>CIT 107</td>
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</tr>
<tr>
<td>MGMT 108 or Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>3.5</td>
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</tbody>
</table>

**Units Required**: 16-16.5

### Certificate of Skill Proficiency: Income Tax Preparer

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ACCT 105</td>
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<tr>
<td>ACCT 096</td>
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<tr>
<td>ACCT 097</td>
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</table>

**Units Required**: 6

### Certificate of Skill Proficiency: Accounting for Government and Nonprofit Organizations

The Accounting for Government and Nonprofit Organizations Career Certificate program is designed for individuals desiring employment in government or not-for-profit organizations. Upon successful completion of this 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.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
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<tr>
<td>ACCT 103</td>
<td>3</td>
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<tr>
<td>ACCT 104</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 106</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 108 or Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>3.5</td>
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</tbody>
</table>

**Units Required**: 16 – 16.5

*Prerequisite
Administration of Justice
(Open to all students)

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.

ASSOCIATE OF SCIENCE DEGREE

To acquire the Associate of Science Degree in Administration of Justice, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AJ 101 Introduction to Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>AJ 102 Criminal Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AJ 104 Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>AJ 105 Community Relations/Multicultural Issues within Public Service</td>
<td>3</td>
</tr>
<tr>
<td>AJ 106 Criminal Law I</td>
<td>3</td>
</tr>
<tr>
<td>AJ 107 Criminal Law II</td>
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**Plus 6 units from the following courses:**
- GIS 281 Crime Mapping and Analysis
- AJ Administration of Justice Courses
  (Subject Titles & Units will vary)
- CORR Corrections Courses
  (Subject Titles & Units will vary)
- PAC Police Academy Courses
  (Subject Titles & Units will vary)

Units Required 24
ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AJ 101</td>
<td>Introduction to Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>AJ 106</td>
<td><em>Criminal Law I</em></td>
<td>3</td>
</tr>
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</table>

Choose two courses from the following list:

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<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AJ 102</td>
<td>Criminal Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AJ 104</td>
<td>Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>AJ 105</td>
<td>Community Relations/Multicultural Issues Within Public Service</td>
<td>3</td>
</tr>
<tr>
<td>AJ 207</td>
<td>Juvenile Law and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>AJ 208</td>
<td>Principles of Investigation</td>
<td>3</td>
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</table>

Choose two courses from the following list: (Any course not used above)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
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<tr>
<td>AJ 107</td>
<td><em>Criminal Law II</em></td>
<td>3</td>
</tr>
<tr>
<td>AJ 275</td>
<td>Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CORR 101</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H</td>
<td><em>Statistics</em></td>
<td>3 or 4</td>
</tr>
<tr>
<td>PSY 101 or PSY 101H</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>TSY 101H</td>
<td><em>Introductory Psychology Honors</em></td>
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</tr>
<tr>
<td>SOC 101 or SOC 101H</td>
<td>Introduction to Sociology</td>
<td>3</td>
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</table>

**Required Subtotal** .......................................................... 18-19

**CSU GE or IGETC Pattern** ................................................. Varies
**Transferable Electives (as needed to reach 60 transferable units)**

**Degree Total** 60

*Prerequisite

---

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 additional 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 18-19 semester units in the major with a grade of “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 Criminal Justice major at the CSU where they seek transfer.
The courses listed in the Associate of Science Degree are comprised of 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 student’s 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 an individual 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**, it is necessary to complete the graduation requirements of the College along with the following courses with a grade of “C” or better:

### Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 065</td>
<td>Smog Technician Diagnostic and Repair Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 106</td>
<td>Automotive Electrical Tools and Diagnostic Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 110</td>
<td>*Introduction to Engine Diagnosis and Tune-Up</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 120</td>
<td>*Engine Tune-Up/Performance</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 130</td>
<td>Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 135</td>
<td>Level-II Smog Technician Training Course: Smog Check Inspection Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 155</td>
<td>*Automotive On-Board Diagnostics Generations One and Two (OBD I &amp; OBD II)</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 157</td>
<td>Automotive Specialized Electronics Training</td>
<td>4</td>
</tr>
</tbody>
</table>

*In addition, students must complete TWO of the following:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 115</td>
<td>*Computerized Engine Controls and Diagnostics</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 150</td>
<td>*Engine Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 180</td>
<td>*Advanced Automotive Diagnostic Procedures and Practices</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 256</td>
<td>*Automotive Scantools and Vehicle Network Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required 32 or 33**

*Prerequisite*
## ADVANCED ENGINE PERFORMANCE - TECHNICIAN

DIVISION OF CAREER & TECHNICAL EDUCATION

### CERTIFICATE OF ACHIEVEMENT

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 065 Smog Technician Diagnostic and Repair Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 130 Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 135 Level-II Smog Technician Training Course: Smog Check Inspection Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 155 *Automotive On-Board Diagnostics Generations One and Two (OBD-I &amp; OBD-II)</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required: 12

*Prerequisite
ALTERNATIVE ENERGY TECHNOLOGY
DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

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, it is necessary to complete the graduation requirements of the College along with the following courses:

Required Courses Units
AET/ET 120 Introduction to Alternative Energy Technology .................3
AET/ET 121 Photovoltaic Systems Design and Installation ..................3
AET/ET 122 *Advanced Photovoltaic Systems Design and Installation ....3
AET/ET 123 Wind Energy Systems Design and Installation ..........3
AET/ET 124 *Advanced Wind Energy Systems Design and Installation ..3
AET 181 or Home Energy Management and Auditing ..................3
AET 182 Industrial Energy Management and Auditing ..................3
AET 280 Green Building Design Principles ..................................3
ARCH 095 Construction Document Reading and Estimating ............3
ELEC 050 Introduction to the Electrical Industry .........................2
GIS 120 *Introduction to Geographic Information Systems and Spatial Analysis ..................................4
TCED 054 *OSHA Workplace Safety II ......................................4

Units Required 34

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Alternative Energy Technology

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:

Required Courses Units
AET/ET 120 Introduction to Alternative Energy Technology .................3
AET/ET 121 Photovoltaic Systems Design and Installation ..................3
AET/ET 122 *Advanced Photovoltaic Systems Design and Installation ....3
AET/ET 123 Wind Energy Systems Design and Installation ..........3
AET/ET 124 *Advanced Wind Energy Systems Design and Installation ..3
TCED 044 OSHA Workplace Safety ..................................1

Units Required 16

*Prerequisite
ASSOCIATE OF SCIENCE DEGREE

This Degree is designed to prepare students and incumbent employees as Alternative Fuels & Advanced Transportation Technology specialists. Training is in theory and practical skills. Directed practical work is given in all fuel areas, compressed and biodiesel, under simulated on-the-job conditions. The program will provide the student with the 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 & Advanced Transportation Technology, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101</td>
<td>Introduction to Automotive Service and Repair: Underhood Service</td>
</tr>
<tr>
<td>AUTO 103</td>
<td>Introduction to Automotive Service and Repair: Undercar Service</td>
</tr>
<tr>
<td>AUTO 106</td>
<td>Automotive Electrical Tools and Diagnostics Procedures</td>
</tr>
<tr>
<td>AUTO 107</td>
<td>Introduction to Automotive Light Service</td>
</tr>
<tr>
<td>AUTO 110</td>
<td>Introduction to Engine Diagnosis and Tune-Up</td>
</tr>
<tr>
<td>AUTO 115</td>
<td>Computerized Engine Controls &amp; Diagnostics</td>
</tr>
<tr>
<td>AUTO 141</td>
<td>Alternative Fuels I</td>
</tr>
<tr>
<td>AUTO 142</td>
<td>Alternative Fuels II</td>
</tr>
<tr>
<td>AUTO 147</td>
<td>Introduction to Hybrid &amp; Electric Vehicle Technology</td>
</tr>
<tr>
<td>AUTO 157</td>
<td>Automotive Specialized Electronics Training</td>
</tr>
</tbody>
</table>

Units Required 32

CERTIFICATE OF ACHIEVEMENT

Alternative Fuels & Advanced Transportation Technology

This Certificate of Achievement is designed to prepare students and incumbent employees as Alternative Fuels & Advanced Transportation Technology specialists. Training is in theory and practical skills. Directed practical work is given in all fuel areas, compressed and biodiesel, under simulated on-the-job conditions. The program will provide the student the opportunity to acquire the knowledge and hand skills demanded of modern transportation specialists. The sequence is 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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 110</td>
<td>*Introduction to Engine Diagnosis and Tune-Up</td>
</tr>
<tr>
<td>AUTO 115</td>
<td>*Computerized Engine Controls &amp; Diagnostics</td>
</tr>
<tr>
<td>AUTO 141</td>
<td>Alternative Fuels I</td>
</tr>
<tr>
<td>AUTO 142</td>
<td>Alternative Fuels II</td>
</tr>
<tr>
<td>AUTO 147</td>
<td>Introduction to Hybrid &amp; Electric Vehicle Technology</td>
</tr>
<tr>
<td>AUTO 157</td>
<td>Automotive Specialized Electronics Training</td>
</tr>
</tbody>
</table>

Units Required 20

*Prerequisite
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 Science Degree in Animation**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105 or ART 105H</td>
<td><em>Survey of Western Art: Prehistory through the Middle Ages</em> 3</td>
</tr>
<tr>
<td>ART 106 or ART 106H</td>
<td><em>Survey of Western Art: Renaissance to Contemporary</em> 3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two Dimensional Design 3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three Dimensional Design 3</td>
</tr>
<tr>
<td>ART 130</td>
<td>Freehand Drawing I 3</td>
</tr>
</tbody>
</table>

*Choose one course from the list below*

- ANIM 101 Introduction to Digital 3D Animation 4
- ANIM 105 Principles of Animation 3
- ANIM 110 Digital Character Animation 4
- ANIM 120 Lighting and Texture 4
- ANIM 130 Modeling for Games 4

Units Required 18-19

*Prerequisite*
ASSOCIATE IN ARTS IN ANTHROPOLOGY FOR TRANSFER

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101 or ANTH 101H</td>
<td>Introduction to Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 102 or ANTH 102H</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 103</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101L</td>
<td>*Introduction to Physical Anthropology Lab</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 102L</td>
<td>*Introduction to Cultural Anthropology Lab</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 110/110H or SOC 110</td>
<td>Human Sexuality from a Cross-Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 125</td>
<td>Religion, Magic, Witchcraft, and the Supernatural</td>
<td>3</td>
</tr>
<tr>
<td>PSY 200</td>
<td>*Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 150</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H or PSY 190</td>
<td>*Statistics or *Statistics Honors or *Statistics for the Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 115</td>
<td>Introduction to Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 110/110H or SOC 110</td>
<td>Human Sexuality from a Cross-Cultural Perspective (if not used above)</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 125</td>
<td>Religion, Magic, Witchcraft, and the Supernatural (if not used above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 158</td>
<td>History of Minorities: African Americans, Asian Americans and American Women</td>
<td>3</td>
</tr>
<tr>
<td>HIST 159 or HIST 159H</td>
<td>History of Minorities: Mexican Americans</td>
<td>3</td>
</tr>
<tr>
<td>GOG 102</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101/101H or MATH 130 or MATH 130H or PSY 190</td>
<td>Introduction to Sociology/Honors</td>
<td>3</td>
</tr>
<tr>
<td>GOG 102</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose one course from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 110/110H or SOC 110</td>
<td>Human Sexuality from a Cross-Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 125</td>
<td>Religion, Magic, Witchcraft, and the Supernatural</td>
<td>3</td>
</tr>
<tr>
<td>PSY 200</td>
<td>*Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 150</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H or PSY 190</td>
<td>*Statistics or *Statistics Honors or *Statistics for the Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>HIST 159 or HIST 159H</td>
<td>History of Minorities: Mexican Americans, Asian Americans and American Women</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Subtotal**

Total Units 60

*Prerequisite*

**Additional Requirements:**

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 19-20 semester units in the major with a grade of “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.

**Total Units 60**
This program leads to the Associate of Science Degree in Architecture for university transfer to Architecture, advanced Tech Prep placement, employment in architectural firms, the AES (Architectural/Engineering/Construction) and Design industries, Public Works/Utilities. The program includes applications such as BIM (Building Information Modeling), CADD (Computer-Assisted Design and Drafting), LEED (Leadership in Energy and Environmental Design), 3D Printing, and traditional drafting methods and standards. By completion of specific General Education courses, this program fulfills many of the requirements and foundation courses for transfer to Baccalaureate Architectural-related majors but does not fulfill all transfer requirements for specific Baccalaureate degree programs.

To acquire the Associate of Science Degree in Architecture, it is necessary to complete the graduation requirements of the College along with the following courses:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 115</td>
<td>Introduction to Residential Architecture: Drawing and Design</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 125</td>
<td>*Residential Architecture and Detailing</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 215</td>
<td>*Architectural Perspective and Rendering</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 225</td>
<td>*Commercial Wood and Masonry Design and Construction</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 235</td>
<td>*Architectural Design Studio</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 260</td>
<td>*Advanced Architecture Using Revit and 3D Software</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 101</td>
<td>Introduction to Technical Drawing &amp; Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 105</td>
<td>Architectural &amp; Technical Freehand Sketching</td>
<td>2</td>
</tr>
<tr>
<td>ENGT 150</td>
<td>AutoCAD for Basic CADD Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

*Select one course from the following:*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 236</td>
<td>*Architectural Design Studio II</td>
</tr>
<tr>
<td>ARCH 261</td>
<td>*Revit for Advanced BIM Architectural, Structural and MEP Applications</td>
</tr>
</tbody>
</table>

*Prerequisite*

**Units Required** 36
ASSOCIATE OF SCIENCE DEGREE

The major of Architectural Design and Drawing curriculum leads to the Associate of Science Degree for employment in architectural firms, the AEC (Architectural/Engineering/Construction) and Design industries, and Public Works/Utilities. The program includes applications such as BIM (Building Information Modeling), CADD (Computer Assisted-Design and Drafting), LEED (Leadership in Energy & Environmental Design), 3D Printing, and traditional drafting methods and standards. This program is not designed to fulfill requirements for transfer to a university in Architecture (see Associate of Science Degree in Architecture). For Baccalaureate or advanced degrees, see admission and transfer requirements for individual colleges and universities.

To acquire the Associate of Science Degree in Architectural Design and Drawing, it is necessary to complete the graduation requirements of the College along with the following courses:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 095</td>
<td>Construction Document Reading and Estimating</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 115</td>
<td>Introduction to Residential Architecture: Drawing and Design</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 125</td>
<td>*Residential Architecture and Detailing</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 225</td>
<td>*Commercial Wood and Masonry Design and Construction</td>
<td>4</td>
</tr>
<tr>
<td>CIV 140</td>
<td>Civil Drafting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 101</td>
<td>Introduction to Technical Drawing &amp; Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 105</td>
<td>Architectural and Technical Freehand Sketching</td>
<td>2</td>
</tr>
<tr>
<td>ENGT 122</td>
<td>Engineering Design Graphics</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 150</td>
<td>AutoCAD for Basic CADD Applications</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 200</td>
<td>*Intermediate AutoCAD for Design and Production</td>
<td>3</td>
</tr>
</tbody>
</table>

*Select one course from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 260</td>
<td>*Advanced Architecture Using Revit and 3D Software</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 280</td>
<td>*Advanced MicroStation for CADD &amp; BIM Applications</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 280</td>
<td>*Advanced MicroStation for CADD &amp; BIM Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required**: 41

*Prerequisite

---

CERTIFICATE OF ACHIEVEMENT

**Architectural Design & Drawing Technician**

This certificate is designed for construction, housing and architectural-related careers and leads to employment in architectural design applications, contractor’s offices, building departments, utilities and building-related drafting and CADD applications.

To acquire the Certificate of Achievement in Architectural Design and Drawing Technician, it is necessary to complete the following courses:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 095</td>
<td>Construction Document Reading and Estimating</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 115</td>
<td>Introduction to Residential Architecture: Drawing and Design</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 125</td>
<td>*Residential Architecture &amp; Detailing</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 225</td>
<td>*Commercial Wood &amp; Masonry Design &amp; Construction</td>
<td>4</td>
</tr>
<tr>
<td>CIV 140</td>
<td>Civil Drafting Fundamentals</td>
<td>3</td>
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<tr>
<td>ENGT 101</td>
<td>Introduction to Technical Drawing &amp; Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 105</td>
<td>Architectural &amp; Technical Freehand Sketching</td>
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</tr>
<tr>
<td>ENGT 122</td>
<td>Engineering Design Graphics</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 150</td>
<td>AutoCAD for Basic CADD Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required**: 30

*Prerequisite

*Prerequisite
ASSOCIATE OF ARTS DEGREE

To acquire the Associate of Arts Degree in Art, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105 or ART 105H</td>
<td></td>
</tr>
<tr>
<td>*Survey of Western Art: Prehistory through the Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>ART 106 or ART 106H</td>
<td></td>
</tr>
<tr>
<td>*Survey of Western Art: Renaissance to Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td></td>
</tr>
<tr>
<td>Two Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td></td>
</tr>
<tr>
<td>Three Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 130</td>
<td></td>
</tr>
<tr>
<td>Freehand Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 131</td>
<td></td>
</tr>
<tr>
<td>*Freehand Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td></td>
</tr>
<tr>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 136</td>
<td></td>
</tr>
<tr>
<td>*Intermediate Painting</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional six units from the following:

<table>
<thead>
<tr>
<th>Units Required</th>
<th>30</th>
</tr>
</thead>
</table>

*Prerequisite
ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105</td>
<td>Survey of Western Art: Prehistory through the Middle Ages</td>
<td></td>
</tr>
<tr>
<td>ART 106</td>
<td>Survey of Western Art: Renaissance to Contemporary</td>
<td></td>
</tr>
<tr>
<td>ART 130</td>
<td>Freehand Drawing I</td>
<td></td>
</tr>
<tr>
<td><em>ART 105H</em></td>
<td><em>Survey of Western Art: Prehistory through the Middle Ages Honors</em></td>
<td>3</td>
</tr>
<tr>
<td><em>ART 106H</em></td>
<td><em>Survey of Western Art: Renaissance to Contemporary Honors</em></td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one non-Western art history course from the following list (3 units):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 104</td>
<td>Art of the Ancient Americas</td>
<td>3</td>
</tr>
<tr>
<td>ART 107</td>
<td>The Art of Asia</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>The Art of Mexico</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one studio art course from the following list (3 units):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Two Dimensional Design (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 230</td>
<td><em>Beginning Life Drawing</em></td>
<td>3</td>
</tr>
<tr>
<td>PHTO190</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 109</td>
<td>Art of the Americas:Colonial to the Present</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Art in the Modern Era</td>
<td>3</td>
</tr>
<tr>
<td>ART 113</td>
<td>The History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 115</td>
<td>The Art of Film</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two Dimensional Design (if not already used)</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three Dimensional Design (if not already used)</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Subtotal 18

CSU GE or IGETC Pattern Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

**Associate in Arts in Art History for Transfer**

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 additional requirements must be met for completion of the AA-T Degree in Art History**

1. Completion 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 18 semester units in the major with a grade of “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 History major at the CSU where they seek transfer.
**ASSOCIATE OF SCIENCE DEGREE**

To acquire the **Associate of Science Degree in Automotive Collision Repair & Painting**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTB 080</td>
<td>3</td>
</tr>
<tr>
<td>AUTB 085</td>
<td>3</td>
</tr>
<tr>
<td>AUTB 090</td>
<td>2</td>
</tr>
<tr>
<td>AUTB 099</td>
<td>4</td>
</tr>
<tr>
<td>AUTB 101</td>
<td>4</td>
</tr>
<tr>
<td>AUTB 110</td>
<td>4</td>
</tr>
<tr>
<td>AUTB 125</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required** 24

*Prerequisite

---

**CERTIFICATE OF ACHIEVEMENT**

**Automotive Collision Repair & Painting**

To acquire the **Certificate of Achievement in Automotive Collision Repair and Painting**, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTB 080</td>
<td>3</td>
</tr>
<tr>
<td>AUTB 085</td>
<td>3</td>
</tr>
<tr>
<td>AUTB 090</td>
<td>2</td>
</tr>
<tr>
<td>AUTB 099</td>
<td>4</td>
</tr>
<tr>
<td>AUTB 101</td>
<td>4</td>
</tr>
<tr>
<td>AUTB 110</td>
<td>4</td>
</tr>
<tr>
<td>AUTB 125</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required** 24

*Prerequisite
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, it is necessary to complete the graduation requirements of the College along with the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 106</td>
<td></td>
</tr>
<tr>
<td>AUTO 140</td>
<td></td>
</tr>
<tr>
<td>AUTO 150</td>
<td></td>
</tr>
<tr>
<td>AUTO 160</td>
<td></td>
</tr>
<tr>
<td>AUTO 200</td>
<td></td>
</tr>
<tr>
<td>AUTO 210</td>
<td></td>
</tr>
<tr>
<td>AUTO 220</td>
<td></td>
</tr>
<tr>
<td>AUTO 230</td>
<td></td>
</tr>
<tr>
<td>AUTO 240</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 35
*Prerequisite

---

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 106</td>
<td></td>
</tr>
<tr>
<td>AUTO 140</td>
<td></td>
</tr>
<tr>
<td>AUTO 150</td>
<td></td>
</tr>
<tr>
<td>AUTO 160</td>
<td></td>
</tr>
<tr>
<td>AUTO 200</td>
<td></td>
</tr>
<tr>
<td>AUTO 210</td>
<td></td>
</tr>
<tr>
<td>AUTO 220</td>
<td></td>
</tr>
<tr>
<td>AUTO 230</td>
<td></td>
</tr>
<tr>
<td>AUTO 240</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 35
*Prerequisite

---

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101</td>
<td></td>
</tr>
<tr>
<td>AUTO 103</td>
<td></td>
</tr>
<tr>
<td>AUTO 106</td>
<td></td>
</tr>
<tr>
<td>AUTO 107</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 12
*Prerequisite
CERTIFICATE OF ACHIEVEMENT

Brake and Suspension Service

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, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 103</td>
<td>Introduction to Automotive Service and Repair: Undercar Service</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 140</td>
<td>*Body and Chassis Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 200</td>
<td>*Suspension, Steering and Alignment Service</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 210</td>
<td>*Automotive Brake Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 211</td>
<td>*Antilock Brakes/Traction Control Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 18

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Diesel Fuel and Emission Systems

This Certificate is designed for the experienced Automotive Technician who desires to expand and upgrade his/her skill level to include Light-Duty Vehicle Diesel Fuel Systems and related Driveability and Emission Control Systems within the Automotive Tune-up and Driveability, Electrical and Electronics, and Automotive Emission Control Systems Service and Repair spectrum. This certificate is also appropriate for emission control (smog) technicians desiring to take and pass the ASE A9 Light Vehicle Diesel Engines certification exam covering advanced auto/truck diesel technology. This certificate leads to employment as a General Diesel Auto Repair Technician, Diesel Tune-up Technician and/or State-Certified Smog Technician.

To acquire a Certificate of Achievement in Diesel Fuel and Emission Systems, it is necessary to complete the following courses with a grade of “C” or better:

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 106</td>
<td>Automotive Electrical Tools and Diagnostic Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 108</td>
<td>*Introduction to Automotive Diesel Service &amp; Operation</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 110</td>
<td>*Introduction to Engine Diagnosis and Tune-Up</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 115</td>
<td>*Computerized Engine Controls and Diagnostics</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 118</td>
<td>*Light-Duty Vehicle Diesel Fuel Systems &amp; Emission Control Diagnostics</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 15

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Safety, Comfort, and Convenience Systems

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:

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 140</td>
<td>*Body and Chassis Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 148</td>
<td>*Vehicle Safety, Comfort and Convenience Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 211</td>
<td>*Antilock Brakes/Traction Control</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 240</td>
<td>*Heating and Air Conditioning</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required 14

*Prerequisite
## AUTOMOTIVE TECHNOLOGY
### DIVISION OF CAREER & TECHNICAL EDUCATION

### CERTIFICATE OF ACHIEVEMENT

#### Engine Repair

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 101</td>
<td></td>
</tr>
<tr>
<td>AUTO 160</td>
<td></td>
</tr>
<tr>
<td>AUTO 170</td>
<td></td>
</tr>
<tr>
<td>AUTO 190</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 14

*Prerequisite

### CERTIFICATE OF ACHIEVEMENT

#### Transmission Service

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 103</td>
<td></td>
</tr>
<tr>
<td>AUTO 120</td>
<td></td>
</tr>
<tr>
<td>AUTO 220</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 15

*Prerequisite

### CERTIFICATE OF ACHIEVEMENT

#### Fuel Injection Systems

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-6 Electrical/Electronic Systems and/or A-8 Engine Performance. The certificate is designed to prepare an individual for entry-level employment as an Electrical/Electronic Systems and/or a Fuel Injection Systems Service/Repair Technician.

To acquire the Certificate of Achievement in Fuel Injection Systems, it is necessary to complete the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 106</td>
<td></td>
</tr>
<tr>
<td>AUTO 110</td>
<td></td>
</tr>
<tr>
<td>AUTO 128</td>
<td></td>
</tr>
<tr>
<td>AUTO 138</td>
<td></td>
</tr>
<tr>
<td>AUTO 150</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 16

*Prerequisite
ASSOCIATE OF SCIENCE DEGREE

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, it is necessary to complete the graduation requirements of the College along with the following courses:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 200</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 140</td>
<td>5</td>
</tr>
<tr>
<td>MATH 190 or MATH 190H</td>
<td>4</td>
</tr>
<tr>
<td>MATH 191 or MATH 130 or MATH 130H</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 140</td>
<td>5</td>
</tr>
<tr>
<td>PHY 150 or PHY 211</td>
<td>4</td>
</tr>
<tr>
<td>PHY 160 or PHY 212</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required: 36

*Prerequisite

• See assist.org for major preparation required for transfer to a UC or CSU.

ASSOCIATE OF ARTS DEGREE

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, it is necessary to complete the graduation requirements of the College along with the following courses:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102</td>
<td>4</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>3</td>
</tr>
<tr>
<td>MATH 120 or MATH 130 or MATH 130H or MATH 170</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required: 24

*Prerequisite
## ASSOCIATE IN SCIENCE IN BUSINESS ADMINISTRATION FOR TRANSFER

### Associate in Science in Business Administration for Transfer

The Associate in Science in Business Administration 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 additional requirements must be met for completion of the AS-T Degree in Business Administration:

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 27-28 semester units in the major with a grade of “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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 102</td>
<td>*Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td>ECON 101 or ECON 101H</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102 or ECON 102H</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Select One: MATH 130 or MATH 130H or MATH 170</td>
<td>*Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 170</td>
<td>*Elements of Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

### Select Two:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 101</td>
<td>Introduction to Computer Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H</td>
<td>*Statistics (if not taken above)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 170</td>
<td>*Elements of Calculus (if not taken above)</td>
<td>4</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 208</td>
<td>*Business Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Subtotal ........................................... 27-28

CSU GE or IGETC Pattern............................................Varies Transferable Electives (as needed to reach 60 transferable units)

### Degree Total

60

*Prerequisite
BUSINESS MARKETING
DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE
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, it is necessary to complete the general education requirements of the college along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSL 110</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 108</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 150</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose four courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 120</td>
<td>4</td>
</tr>
<tr>
<td>LOG 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 141</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 171</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 172</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 173</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 174</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 175</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 27-28

*Prerequisite

CERTIFICATE OF ACHIEVEMENT
The Business Marketing Certificate of Achievement 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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 101</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose four courses from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 120</td>
<td>4</td>
</tr>
<tr>
<td>LOG 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 141</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 171</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 172</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 173</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 174</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 175</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 18-19

*Prerequisite
The Associate of Arts Degree in Chicano Studies is intended for students wishing to acquire historical, theoretical, and cultural understanding of the Chicano (Mexican-American) community from the formation of the Chicano identity up to current issues pertaining to this group. The degree program is particularly relevant to students intending to work and/or interact in environments with high concentrations of Chicanos and/or those with familial or personal ties to the Mexican-American community. This program is also intended to prepare students interested in transferring to four-year institutions as Chicano Studies majors.

As a multidisciplinary program, the Chicano Studies Degree draws upon disciplines encompassing the humanities, language and fine arts, and a number of social sciences. Specifically, issues of politics, identity, and social justice are explored while Chicano contributions to the artistic, political, economic, and cultural landscape of mainstream U.S. society are examined.

To acquire the Associate of Arts Degree in Chicano Studies, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHST 101</td>
<td>Introduction to Chicano Studies</td>
</tr>
<tr>
<td>CHST 146</td>
<td>The Mexican-American in the History of the U.S.</td>
</tr>
<tr>
<td>CHST 148/SOC 148</td>
<td>La Chica: The Contemporary Mexican-American Female</td>
</tr>
<tr>
<td>CHST 150/POLS 150</td>
<td>Chicano Politics</td>
</tr>
<tr>
<td>HUM 130</td>
<td>Contemporary Mexican-American Culture</td>
</tr>
</tbody>
</table>

Choose two courses from the list below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102 or ANTH 102H</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>Religion, Magic, Witchcraft, and the Supernatural</td>
<td>3</td>
</tr>
<tr>
<td>HIST 122</td>
<td>The Art of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 131</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 159 or HIST 159H</td>
<td>History of the North American Indian</td>
<td>3</td>
</tr>
<tr>
<td>HIST 167</td>
<td>History of California</td>
<td>3</td>
</tr>
<tr>
<td>HUM 125 or HUM 125H</td>
<td>Introduction to Mexican Culture</td>
<td>3</td>
</tr>
<tr>
<td>LIT 117 or LIT 117H</td>
<td>Mexican Literature in Translation</td>
<td>3</td>
</tr>
<tr>
<td>LIT 149</td>
<td>Introduction to Chicano Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS 129</td>
<td>Music in Latin American Culture</td>
<td>3</td>
</tr>
<tr>
<td>PSY 116</td>
<td>Introduction to Cross-Cultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 116</td>
<td>Introduction to Race and Ethnic Relations</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>*Spanish II</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 130</td>
<td>Spanish for Heritage Speakers I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 131</td>
<td>*Spanish for Heritage Speakers II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 201 or SPAN 201H</td>
<td>*Spanish III</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 202</td>
<td>*Spanish IV</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required: 21 -23

*Prerequisite
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 for details.

To acquire an **Associate of Science Degree in Child Development**, it is necessary to complete the graduation requirements of the College along with the following:

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 106</td>
<td>Child Growth and Development (DS 1)</td>
<td>3</td>
</tr>
<tr>
<td>CD 110</td>
<td>Principles and Practices of Early Childhood Education (DS 3)</td>
<td></td>
</tr>
<tr>
<td>CD 111</td>
<td>Early Childhood Education Curriculum (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 114</td>
<td>Observation and Assessment (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 208</td>
<td>Child, Family and Community (DS 2)</td>
<td>3</td>
</tr>
<tr>
<td>CD 228</td>
<td>Early Childhood Education Practicum** (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>18 units</strong></td>
<td></td>
</tr>
</tbody>
</table>

Plus nine units selected from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 102</td>
<td>Nutrition, Health and Safety for Children (DS 7)</td>
<td>3</td>
</tr>
<tr>
<td>CD 103</td>
<td>Parenting (DS 2)</td>
<td>3</td>
</tr>
<tr>
<td>CD 104</td>
<td>Methods for Teaching Parent Education (DS 2)</td>
<td>3</td>
</tr>
<tr>
<td>CD 115</td>
<td>Creative Art Experiences for Children (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 118</td>
<td>Development of Science and Math Experiences (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 119</td>
<td>Music and Movement for Children (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 120</td>
<td>Experiences in Language Arts (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 128</td>
<td>Growth and Development During the School Years (DS 5)</td>
<td>3</td>
</tr>
<tr>
<td>CD 129</td>
<td>School-Age Care Supervision and Administration (DS 5)</td>
<td>3</td>
</tr>
<tr>
<td>CD 130</td>
<td>School-Age Child Care and Curriculum (DS 5)</td>
<td>3</td>
</tr>
<tr>
<td>CD 210</td>
<td>Adult Supervision* (DS 6)</td>
<td>3</td>
</tr>
<tr>
<td>CD 211</td>
<td>Infants and Toddlers (DS 4)</td>
<td>3</td>
</tr>
<tr>
<td>CD 213</td>
<td>Developing and Implementing Infant/Toddler Curriculum* (DS 4)</td>
<td>3</td>
</tr>
<tr>
<td>CD 222</td>
<td>Administration of Educational Programs for Young Children* (DS 6)</td>
<td>3</td>
</tr>
<tr>
<td>CD 223</td>
<td>Advanced Administration of Educational Programs for Young Children*</td>
<td>3</td>
</tr>
<tr>
<td>CD 224</td>
<td>Diversity Issues During Early Childhood, School-Age and Adolescence (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 226</td>
<td>Introduction to Special Education</td>
<td>3</td>
</tr>
<tr>
<td>CD 229</td>
<td>Literacy Development for Young Children (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 230</td>
<td>Family Child Care (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 231</td>
<td>Curriculum for Family Child Care * (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 232</td>
<td>Educating Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ED 110</td>
<td>Introduction to Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required** 27

*Prerequisite

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

**Observation hours only available in day-time.
# CHILD DEVELOPMENT
DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

## CERTIFICATE OF ACHIEVEMENT

### Child Development

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:

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 106</td>
<td>Child Growth and Development (DS 1)</td>
<td>3</td>
</tr>
<tr>
<td>CD 110</td>
<td>Principles and Practices of Early Childhood Education (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 111</td>
<td>Early Childhood Education Curriculum (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 114</td>
<td>Observation and Assessment (DS3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 208</td>
<td>Child, Family and Community (DS 2)</td>
<td>3</td>
</tr>
<tr>
<td>CD 228</td>
<td>Early Childhood Education Practicum** (DS3)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Plus nine units selected from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 102</td>
<td>Nutrition, Health and Safety for Children (DS 7)</td>
<td>3</td>
</tr>
<tr>
<td>CD 103</td>
<td>Parenting (DS 2)</td>
<td>3</td>
</tr>
<tr>
<td>CD 104</td>
<td>Methods for Teaching Parent Education (DS 2)</td>
<td>3</td>
</tr>
<tr>
<td>CD 115</td>
<td>Creative Art Experiences for Children (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 118</td>
<td>Development of Science and Math Experiences (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 119</td>
<td>Music and Movement for Children (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 120</td>
<td>Experiences in Language Arts (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 128</td>
<td>Growth and Development During the School Years (DS 5)</td>
<td>3</td>
</tr>
<tr>
<td>CD 129</td>
<td>School-Age Care Supervision and Administration (DS 5)</td>
<td>3</td>
</tr>
<tr>
<td>CD 130</td>
<td>School-Age Child Care and Curriculum (DS 5)</td>
<td>3</td>
</tr>
<tr>
<td>CD 210</td>
<td>Adult Supervision* (DS 6)</td>
<td>3</td>
</tr>
<tr>
<td>CD 211</td>
<td>Infants and Toddlers (DS 4)</td>
<td>3</td>
</tr>
<tr>
<td>CD 213</td>
<td>Developing and Implementing Infant/Toddler Curriculum* (DS 4)</td>
<td>3</td>
</tr>
<tr>
<td>CD 222</td>
<td>Administration of Educational Programs for Young Children* (DS 6)</td>
<td>3</td>
</tr>
<tr>
<td>CD 223</td>
<td>Advanced Administration of Educational Programs for Young Children* (DS 6)</td>
<td>3</td>
</tr>
<tr>
<td>CD 224</td>
<td>Diversity Issues During Early Childhood, School-Age and Adolescence (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 226</td>
<td>Introduction to Special Education</td>
<td>3</td>
</tr>
<tr>
<td>CD 229</td>
<td>Literacy Development for Young Children (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 230</td>
<td>Family Child Care (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 231</td>
<td>Curriculum for Family Child Care * (DS 3)</td>
<td>3</td>
</tr>
<tr>
<td>CD 232</td>
<td>Educating Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ED 110</td>
<td>Introduction to Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required** 27

*Prerequisite

+DS indicates Department of Social Services Title 22 classification requirements for teacher training in licensed private preschools and childcare programs.

**Observation hours only available in day-time.
To acquire the **Certificate of Achievement in Preschool Teacher**, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 102 Nutrition, Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>CD 106 +Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CD 110 +Principles and Practices of Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CD 111 +Early Childhood Education Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CD 208 +Child Family and Community</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required** 15

---

*Preschool Teacher*

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.
The following Civil Design Technology curriculum will lead to the Associate of Science Degree and prepare students for employment in the field of Civil Engineering as a technician with the potential for more rapid advancement to positions of greater responsibility in surveying and civil construction. Completion of this program is not designed to fulfill the requirements for transfer to a university in Civil Engineering. For Baccalaureate or advanced degrees, students will need to complete additional courses in mathematics and physics. Please see a counselor for requirements.

To acquire the Associate of Science Degree in Civil Design Technology, it is necessary to complete the graduation requirements of the College along with the following courses:

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 115</td>
<td>4</td>
<td>Introduction to Residential Architecture: Drawing and Design</td>
</tr>
<tr>
<td>CIV 140</td>
<td>3</td>
<td>Civil Drafting Fundamentals</td>
</tr>
<tr>
<td>ENGT 101</td>
<td>3</td>
<td>Introduction to Technical Drawing &amp; Graphics</td>
</tr>
<tr>
<td>ENGT 105</td>
<td>2</td>
<td>Architectural and Technical Freehand Sketching</td>
</tr>
<tr>
<td>ENGT 122</td>
<td>4</td>
<td>Engineering Design Graphics</td>
</tr>
<tr>
<td>ENGT 150</td>
<td>4</td>
<td>AutoCAD for Basic CADD Applications</td>
</tr>
<tr>
<td>ENGT 170</td>
<td>4</td>
<td>MicroStation for Basic CADD Applications</td>
</tr>
</tbody>
</table>

Then select one field of specialization for an additional 13 to 16 units

#### Structures

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV 142</td>
<td>4</td>
<td>Introduction to Land Surveying and GPS</td>
</tr>
<tr>
<td>ARCH 260</td>
<td>4</td>
<td>Advanced Architecture Using Revit and 3D Software</td>
</tr>
<tr>
<td>-and-</td>
<td></td>
<td>Residential Architecture and Detailing</td>
</tr>
<tr>
<td>ARCH 225</td>
<td>4</td>
<td>Commercial Wood and Masonry Design and Construction</td>
</tr>
<tr>
<td>-and-</td>
<td></td>
<td>Revit for Advanced BIM Architectural, Structural and MEP</td>
</tr>
<tr>
<td>ARCH 261</td>
<td>4</td>
<td>Applications</td>
</tr>
<tr>
<td>ARCH 280</td>
<td>4</td>
<td>Advanced MicroStation for CADD &amp; BIM Applications</td>
</tr>
</tbody>
</table>

**Total Units 35-36**

#### Land Development

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV 142</td>
<td>4</td>
<td>Introduction to Land Surveying and GPS</td>
</tr>
<tr>
<td>CIV 143</td>
<td>4</td>
<td>Applications to Surveying and GPS</td>
</tr>
<tr>
<td>CIV 241</td>
<td>3</td>
<td>*Civil Engineering Drafting and Design</td>
</tr>
<tr>
<td>-and-</td>
<td></td>
<td>*Civil Engineering Design and Modeling</td>
</tr>
<tr>
<td>GIS 120</td>
<td>4</td>
<td>Introduction to Geographic Information Systems and Spatial Analysis</td>
</tr>
</tbody>
</table>

**Total Units 34-35**

#### Piping

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGT 265</td>
<td>3</td>
<td>Pressure Piping Design</td>
</tr>
<tr>
<td>ENGT 266</td>
<td>3</td>
<td>Pressure Piping Applications</td>
</tr>
<tr>
<td>ARCH 095</td>
<td>4</td>
<td>Construction Document Reading and Estimating</td>
</tr>
<tr>
<td>-and-</td>
<td></td>
<td>Advanced Architecture Using Revit and 3D Software</td>
</tr>
<tr>
<td>ARCH 260</td>
<td>4</td>
<td>Advanced MicroStation for CADD &amp; BIM Applications</td>
</tr>
</tbody>
</table>

**Total Units 33**

#### Transportation

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG 120</td>
<td>3</td>
<td>Transportation Management</td>
</tr>
<tr>
<td>GIS 120</td>
<td>3</td>
<td>Introduction to Geographic Information Systems and Spatial Analysis</td>
</tr>
<tr>
<td>CIV 142</td>
<td>4</td>
<td>Introduction to Land Surveying and GPS</td>
</tr>
<tr>
<td>CIV 241</td>
<td>3</td>
<td>*Civil Engineering Drafting and Design</td>
</tr>
</tbody>
</table>

**Total Units 34**

#### Environmental

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV 142</td>
<td>4</td>
<td>Introduction to Land Surveying and GPS</td>
</tr>
<tr>
<td>GIS 120</td>
<td>4</td>
<td>Introduction to Geographic Information Systems and Spatial Analysis</td>
</tr>
<tr>
<td>GIS 230</td>
<td>3</td>
<td>Geographic Information Systems (GIS) in Environmental Technology</td>
</tr>
<tr>
<td>ET 280</td>
<td>3</td>
<td>Green Building Design Principles</td>
</tr>
</tbody>
</table>

**Total Units 34**

*Prerequisite*
# CERTIFICATE OF ACHIEVEMENT

## Civil Design Technology

The following Civil Design Technology curriculum will lead to the Certificate of Achievement and prepare students for employment in the field of Civil Engineering as a technician with the potential for more rapid advancement to positions of greater responsibility in surveying and civil construction.

To acquire the **Certificate of Achievement in Civil Design Technology**, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 115 Introduction to Residential Architecture</td>
<td>4</td>
</tr>
<tr>
<td>CIV 140 Civil Drafting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIV 142 Introduction to Surveying and GPS</td>
<td>4</td>
</tr>
<tr>
<td>CIV 241 *Civil Engineering Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>CIV 245 *Civil Engineering Design and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 101 Introduction to Technical Drawing &amp; Graphics</td>
<td>3</td>
</tr>
<tr>
<td>ENGT 105 Architectural and Technical Freehand Sketching</td>
<td>2</td>
</tr>
<tr>
<td>ENGT 122 Engineering Design Graphics</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 138 Engineering Careers and Applications</td>
<td>2</td>
</tr>
<tr>
<td>ENGT 150 AutoCAD for Basic CADD Applications</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 170 MicroStation for Basic CADD Applications</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 200 *Intermediate AutoCAD for Design and Production</td>
<td>3</td>
</tr>
<tr>
<td>GIS 120 Introduction to Geographic Information Systems and Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GIS 221 *Cartography Design and Geographic Information Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required 47**

*Prerequisite*
CERTIFICATE OF ACHIEVEMENT

Civil Design & Drawing

This certificate is designed for civil engineering careers and leads to employment in civil design applications, public works, utilities and CADD/Drafting-related industries.

To acquire the Certificate of Achievement in Civil Design & Drawing, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV 140</td>
<td>Civil Drafting Fundamentals</td>
</tr>
<tr>
<td>CIV 142</td>
<td>Introduction to Surveying and GPS</td>
</tr>
<tr>
<td>ENGT 101</td>
<td>Introduction to Technical Drawing &amp; Graphics</td>
</tr>
<tr>
<td>ENGT 138</td>
<td>Engineering Careers and Applications</td>
</tr>
<tr>
<td>ENGT 150</td>
<td>AutoCAD for Basic CADD Applications</td>
</tr>
<tr>
<td>ENGT 170</td>
<td>MicroStation for Basic CADD Applications</td>
</tr>
<tr>
<td>GIS 120</td>
<td>Introduction to Geographic Information Systems and Spatial Analysis</td>
</tr>
</tbody>
</table>

Plus 4 units from the following:

| ARCH 115 or ENGT 122 | Introduction to Residential Architecture | 4 |

Units Required 28

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Surveying, Mapping & Drawing

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV 140</td>
<td>Civil Drafting Fundamentals</td>
</tr>
<tr>
<td>CIV 142</td>
<td>Introduction to Surveying and GPS</td>
</tr>
<tr>
<td>ENGT 101</td>
<td>Introduction to Technical Drawing &amp; Graphics</td>
</tr>
<tr>
<td>ENGT 122</td>
<td>Engineering Design Graphics</td>
</tr>
<tr>
<td>GIS 120</td>
<td>Introduction to Geographic Information Systems and Spatial Analysis</td>
</tr>
<tr>
<td>GIS 221</td>
<td>*Cartography Design and Geographic Information Systems</td>
</tr>
</tbody>
</table>

Select one course from the following:

| ENGT 150 or ENGT 170 | AutoCAD for Basic CADD Applications | 4 |

Units Required 26

*Prerequisite

Additional Recommended courses: GEOG 101 and MATH 175.

COMMERCIAL ART

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF SCIENCE DEGREE

To acquire the Associate of Science Degree in Commercial Art, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105 or ART 105H</td>
<td>*Survey of Western Art: Prehistory through the Middle Ages</td>
</tr>
<tr>
<td>ART 106 or ART 106H</td>
<td>*Survey of Western Art: Renaissance to Contemporary</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two Dimensional Design</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three Dimensional Design</td>
</tr>
<tr>
<td>ART 130</td>
<td>Freehand Drawing I</td>
</tr>
<tr>
<td>ART 131</td>
<td>*Freehand Drawing II</td>
</tr>
</tbody>
</table>

| ART 164 | Graphic Design (Adobe Illustrator) | 3 |
| ART 165 | Graphic Design (Advanced Adobe Illustrator) | 3 |
| ART 175 | Computer Graphics | 3 |
| ART 178 | Introduction to Digital Imaging (Adobe Photoshop) | 3 |

Units Required 30

*Prerequisite
Associate in Arts in Communication Studies for Transfer

The Associate in Arts in Communication Studies 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 additional requirements must be met for completion of the Associate in Arts in Communication 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 18-20.5 semester units in the major with a grade of “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.

Required Subtotal ................................................... 18-20.5

CSU GE or IGETC Pattern ........................................... Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

Choose one course from the following list:

ANTH 102 Introduction to Cultural or
ANTH 102H *Introduction to Cultural Anthropology .................3

ENGL 201 *Advanced Composition and Critical Thinking or
ENGL 201H *Advanced Composition and Critical Thinking Honors ..........3.5

JOUR 120 Communications Reporting and Writing, ........................3

PSY 101 or Introductory Psychology or
PSY 101H *Introductory Psychology Honors ...3
SOC 101 or Introduction to Sociology or
SOC 101H *Introduction to Sociology Honors ...3
SPCH 132 Readers Theatre .............................................3

Required Subtotal .................................................................. 18-20.5

CSU GE or IGETC Pattern ........................................... Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 100</td>
<td>Interpersonal Communication........3</td>
</tr>
<tr>
<td>SPCH 101 or</td>
<td>Public Speaking........................3</td>
</tr>
<tr>
<td>SPCH 101H</td>
<td>*Public Speaking Honors</td>
</tr>
<tr>
<td>SPCH 140</td>
<td>Argumentation and Debate ............3</td>
</tr>
</tbody>
</table>

Choose 6 units from the following list
(Maximum 3 units Forensics):

SPCH 102 Fundamentals of Oral Communication .................................3
SPCH 110 Forensics: Speech and Debate Team ........................................2
SPCH 111 Forensics: Debate Research and Practice ....................................2
SPCH 130 Oral Interpretation ..........................................................3
SPCH 240 *Argumentation and Discussion ...........................................3
# COMPUTER INFORMATION TECHNOLOGY

## DIVISION OF BUSINESS

<table>
<thead>
<tr>
<th>CAREER CERTIFICATE</th>
<th>CAREER CERTIFICATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PC REPAIR TECHNICIAN</strong></td>
<td><strong>ENTRY NETWORK TECHNICIAN</strong></td>
</tr>
<tr>
<td>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 and troubleshoot personal computers. This certificate also prepares students to pass the CompTIA A+ examination.</td>
<td>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. This certificate also prepares students to pass the CISCO ICND-1 examination and the CompTIA Security + examination.</td>
</tr>
<tr>
<td><strong>Required Courses</strong></td>
<td><strong>Required Courses</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT 130 Windows Configuration...........................3</td>
<td>CIT 210 Cisco® Networking I.........................3</td>
</tr>
<tr>
<td>CIT 180 PC Maintenance - A+ Certification ........4</td>
<td>CIT 211 Cisco® Networking II .........................3</td>
</tr>
<tr>
<td></td>
<td>CIT 192 Network Security I................................3</td>
</tr>
<tr>
<td><strong>Units Required</strong></td>
<td><strong>Units Required</strong></td>
</tr>
<tr>
<td>7</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAREER CERTIFICATE</th>
<th>CAREER CERTIFICATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DESKTOP TECHNICIAN</strong></td>
<td><strong>NETWORK TECHNICIAN</strong></td>
</tr>
<tr>
<td>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 A+ examination, CompTIA Security + examination and the Windows Client Operating System examination.</td>
<td>This curriculum is designed to prepare students for employment as network technicians. Students that successfully complete the Network Technician certificate will be able to install, design, install and troubleshoot enterprise networks and perform basic network security. This certificate also prepares students to pass the CISCO ICND-1 examination, the CISCO ICND-2 examination and the CompTIA Security + examination.</td>
</tr>
<tr>
<td><strong>Required Courses</strong></td>
<td><strong>Required Courses</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT 130 Windows Configuration...........................3</td>
<td>CIT 210 Cisco® Networking I.........................3</td>
</tr>
<tr>
<td>CIT 180 PC Maintenance - A+ Certification ........4</td>
<td>CIT 211 Cisco® Networking II .........................3</td>
</tr>
<tr>
<td>CIT 190 Introduction to Information Security.....3</td>
<td>CIT 192 Network Security I................................3</td>
</tr>
<tr>
<td></td>
<td>CIT 212 Cisco® Networking III..........................3</td>
</tr>
<tr>
<td></td>
<td>CIT 213 Cisco® Networking IV..........................3</td>
</tr>
<tr>
<td><strong>Units Required</strong></td>
<td><strong>Units Required</strong></td>
</tr>
<tr>
<td>10</td>
<td>15</td>
</tr>
</tbody>
</table>
COMPUTER INFORMATION TECHNOLOGY/ COMPUTER SYSTEMS OPTION
DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

This degree program is designed to prepare students for employment in computer applications with emphasis in programming language C++ or Java.

To acquire the Associate of Science Degree in Computer Information Technology: Computer Systems Option, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 090</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101</td>
<td>3</td>
</tr>
<tr>
<td>CIT 109</td>
<td>3</td>
</tr>
<tr>
<td>CIT 111</td>
<td>3</td>
</tr>
<tr>
<td>CIT 200</td>
<td>3</td>
</tr>
<tr>
<td>CIT 210</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 108</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one area of specialization below:

**C++ Programming option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 125</td>
<td>4</td>
</tr>
<tr>
<td>CIT 126</td>
<td>4</td>
</tr>
</tbody>
</table>

**Java Programming option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 135</td>
<td>4</td>
</tr>
<tr>
<td>CIT 136</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required 32

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

This certificate program is designed to prepare students for employment in computer applications with emphasis in programming language C++ or Java.

To acquire the Certificate of Achievement in Computer Information Technology: Computer Systems Option, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 090</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101</td>
<td>3</td>
</tr>
<tr>
<td>CIT 109</td>
<td>3</td>
</tr>
<tr>
<td>CIT 111</td>
<td>3</td>
</tr>
<tr>
<td>CIT 200</td>
<td>3</td>
</tr>
<tr>
<td>CIT 210</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 108</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one area of specialization below:

**C++ Programming option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 125</td>
<td>4</td>
</tr>
<tr>
<td>CIT 126</td>
<td>4</td>
</tr>
</tbody>
</table>

**Java Programming option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 135</td>
<td>4</td>
</tr>
<tr>
<td>CIT 136</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required 32

*Prerequisite
COMPUTER INFORMATION TECHNOLOGY/ MICROCOMPUTER SPECIALIST
DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

This curriculum is designed to prepare students for employment as computer specialists in business-related programming or microcomputer applications.

To acquire the Associate of Science Degree in Computer Information Technology: Microcomputer Specialist, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 090</td>
<td></td>
</tr>
<tr>
<td>CIT 060</td>
<td></td>
</tr>
<tr>
<td>CIT 101</td>
<td></td>
</tr>
<tr>
<td>CIT 103</td>
<td></td>
</tr>
<tr>
<td>CIT 107</td>
<td></td>
</tr>
<tr>
<td>CIT 109</td>
<td></td>
</tr>
<tr>
<td>MGMT 108</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 21

CERTIFICATE OF ACHIEVEMENT

This curriculum is designed to prepare students for employment as computer specialists in business-related programming or microcomputer applications.

To acquire the Certificate in Computer Information Technology: Microcomputer Specialist, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 090</td>
<td></td>
</tr>
<tr>
<td>CIT 060</td>
<td></td>
</tr>
<tr>
<td>CIT 101</td>
<td></td>
</tr>
<tr>
<td>CIT 103</td>
<td></td>
</tr>
<tr>
<td>CIT 107</td>
<td></td>
</tr>
<tr>
<td>CIT 109</td>
<td></td>
</tr>
<tr>
<td>MGMT 108</td>
<td></td>
</tr>
</tbody>
</table>

Units Required 21
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, it is necessary to complete the graduation requirements of the college along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJ 041 Effective Written Communications for Public Service Personnel</td>
<td>3</td>
</tr>
<tr>
<td>CORR 101 Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CORR 104 Control and Supervision in Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CORR 106 Legal Aspects of Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CORR 134 Introduction to Interviewing and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>CORR 235 Conflict Resolution</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Units: 18

Plus 6 units selected from the following courses:

| 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 290 Public Safety Communications | 3 |

Total Units Required 24
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, it is necessary to complete the graduation requirements of the College along with the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 118</td>
<td>Chemical Dependency: Intervention, Treatment, and Recovery ..........3</td>
</tr>
<tr>
<td>HUSR 122</td>
<td>Introduction to Group Leadership and Process ..................3-4</td>
</tr>
<tr>
<td>HUSR 124</td>
<td>Introduction to Case Management and Documentation ..............3</td>
</tr>
<tr>
<td>HUSR 126</td>
<td>Counseling the Family of the Addicted Person .....................3</td>
</tr>
<tr>
<td>HUSR 130</td>
<td>Essential Counseling Skills ........................................3</td>
</tr>
<tr>
<td>HUSR 199</td>
<td>*Fieldwork in Human Services ........................................3-4</td>
</tr>
<tr>
<td>HUSR 230</td>
<td>*Drug Studies Seminar and Internship ..............................3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Drugs, Society, and Behavior .......................................3</td>
</tr>
<tr>
<td>PSY 123 or HUSR 128</td>
<td>Drug Education and Prevention .........................................3</td>
</tr>
<tr>
<td>PSY 127</td>
<td>Introduction to the Physiological Effects of Drugs of Abuse ......3</td>
</tr>
<tr>
<td>SOC 111</td>
<td>Human Services in Contemporary Society ...........................3</td>
</tr>
<tr>
<td>PSY 101 or PSY 101H</td>
<td>Introductory Psychology ..............................................3</td>
</tr>
<tr>
<td>PSY 112</td>
<td>Lifespan Development ..................................................3</td>
</tr>
<tr>
<td>PSY 114</td>
<td>Introduction to Abnormal Psychology ..................................3</td>
</tr>
<tr>
<td>SOC 101 or SOC 101H</td>
<td>Introduction to Sociology ...............................................3</td>
</tr>
</tbody>
</table>

Choose two courses from the list below:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 118</td>
<td>Chemical Dependency: Intervention, Treatment, and Recovery ..........3</td>
</tr>
<tr>
<td>HUSR 122</td>
<td>Introduction to Group Leadership and Process ..................3-4</td>
</tr>
<tr>
<td>HUSR 124</td>
<td>Introduction to Case Management and Documentation ..............3</td>
</tr>
<tr>
<td>HUSR 126</td>
<td>Counseling the Family of the Addicted Person .....................3</td>
</tr>
<tr>
<td>HUSR 130</td>
<td>Essential Counseling Skills ........................................3</td>
</tr>
<tr>
<td>HUSR 199</td>
<td>*Human Services ..................................................3-4</td>
</tr>
<tr>
<td>HUSR 230</td>
<td>*Drug Studies Seminar and Internship ..............................3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Drugs, Society, and Behavior .......................................3</td>
</tr>
<tr>
<td>PSY 123 or HUSR 128</td>
<td>Drug Education and Prevention .........................................3</td>
</tr>
<tr>
<td>PSY 127</td>
<td>Introduction to the Physiological Effects of Drugs of Abuse ......3</td>
</tr>
<tr>
<td>SOC 111</td>
<td>Human Services in Contemporary Society ...........................3</td>
</tr>
<tr>
<td>PSY 101 or PSY 101H</td>
<td>Introductory Psychology ..............................................3</td>
</tr>
<tr>
<td>PSY 112</td>
<td>Lifespan Development ..................................................3</td>
</tr>
<tr>
<td>PSY 114</td>
<td>Introduction to Abnormal Psychology ..................................3</td>
</tr>
<tr>
<td>SOC 101 or SOC 101H</td>
<td>Introduction to Sociology ...............................................3</td>
</tr>
</tbody>
</table>

Units Required 36 - 37

*Prerequisite

The Drug Studies Certificate 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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 118</td>
<td>Chemical Dependency: Intervention, Treatment, and Recovery ..........3</td>
</tr>
<tr>
<td>HUSR 122</td>
<td>Introduction to Group Leadership and Process ..................3-4</td>
</tr>
<tr>
<td>HUSR 124</td>
<td>Introduction to Case Management and Documentation ..............3</td>
</tr>
<tr>
<td>HUSR 126</td>
<td>Counseling the Family of the Addicted Person .....................3</td>
</tr>
<tr>
<td>HUSR 130</td>
<td>Essential Counseling Skills ........................................3</td>
</tr>
<tr>
<td>HUSR 199</td>
<td>*Human Services ..................................................3-4</td>
</tr>
<tr>
<td>HUSR 230</td>
<td>*Drug Studies Seminar and Internship ..............................3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Drugs, Society, and Behavior .......................................3</td>
</tr>
<tr>
<td>PSY 123 or HUSR 128</td>
<td>Drug Education and Prevention .........................................3</td>
</tr>
<tr>
<td>PSY 127</td>
<td>Introduction to the Physiological Effects of Drugs of Abuse ......3</td>
</tr>
<tr>
<td>SOC 111</td>
<td>Human Services in Contemporary Society ...........................3</td>
</tr>
<tr>
<td>PSY 101 or PSY 101H</td>
<td>Introductory Psychology ..............................................3</td>
</tr>
<tr>
<td>PSY 112</td>
<td>Lifespan Development ..................................................3</td>
</tr>
<tr>
<td>PSY 114</td>
<td>Introduction to Abnormal Psychology ..................................3</td>
</tr>
<tr>
<td>SOC 101 or SOC 101H</td>
<td>Introduction to Sociology ...............................................3</td>
</tr>
</tbody>
</table>

Choose two courses from the list below:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 118</td>
<td>Chemical Dependency: Intervention, Treatment, and Recovery ..........3</td>
</tr>
<tr>
<td>HUSR 122</td>
<td>Introduction to Group Leadership and Process ..................3-4</td>
</tr>
<tr>
<td>HUSR 124</td>
<td>Introduction to Case Management and Documentation ..............3</td>
</tr>
<tr>
<td>HUSR 126</td>
<td>Counseling the Family of the Addicted Person .....................3</td>
</tr>
<tr>
<td>HUSR 130</td>
<td>Essential Counseling Skills ........................................3</td>
</tr>
<tr>
<td>HUSR 199</td>
<td>*Human Services ..................................................3-4</td>
</tr>
<tr>
<td>HUSR 230</td>
<td>*Drug Studies Seminar and Internship ..............................3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Drugs, Society, and Behavior .......................................3</td>
</tr>
<tr>
<td>PSY 123 or HUSR 128</td>
<td>Drug Education and Prevention .........................................3</td>
</tr>
<tr>
<td>PSY 127</td>
<td>Introduction to the Physiological Effects of Drugs of Abuse ......3</td>
</tr>
<tr>
<td>SOC 111</td>
<td>Human Services in Contemporary Society ...........................3</td>
</tr>
<tr>
<td>PSY 101 or PSY 101H</td>
<td>Introductory Psychology ..............................................3</td>
</tr>
<tr>
<td>PSY 112</td>
<td>Lifespan Development ..................................................3</td>
</tr>
<tr>
<td>PSY 114</td>
<td>Introduction to Abnormal Psychology ..................................3</td>
</tr>
<tr>
<td>SOC 101 or SOC 101H</td>
<td>Introduction to Sociology ...............................................3</td>
</tr>
</tbody>
</table>

Units Required 36 - 37

*Prerequisite
EARLY CHILDHOOD EDUCATION
DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER

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 additional requirements must be met for completion of the AS-T Degree in Early Childhood Education:

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 24 semester 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 Early Childhood Education major at the CSU where they seek transfer.

### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 102</td>
<td>Nutrition, Health and Safety for Children</td>
<td>3</td>
</tr>
<tr>
<td>CD 106</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CD 110</td>
<td>Principles and Practices of Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CD 111</td>
<td>Early Childhood Education Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CD 114</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CD 208</td>
<td>Child Family and Community</td>
<td>3</td>
</tr>
<tr>
<td>CD 224</td>
<td>Diversity Issues in Early Childhood, School-Age and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>CD 228</td>
<td>*Early Childhood Education Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Subtotal ........................................... 24

CSU GE or IGETC Pattern .................................. Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite
### ELECTRONICS TECHNOLOGY

**DIVISION OF CAREER & TECHNICAL EDUCATION**

---

### ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Electronics Technology**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC 101 *D/C Electronic Circuits and Devices</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 102 *A/C Electronic Circuits and Devices</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 108 *Introduction to Solid State Devices &amp; Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 109 *Linear, Analog Circuits &amp; Devices</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 111 *Introduction to Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 208 *Advanced Solid State Devices &amp; Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 211 *Advanced Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 240 *Microprocessors &amp; Microcomputing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required**: 32

* Prerequisite

All of these courses must be completed with a grade of “C” or better.

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### CERTIFICATE OF ACHIEVEMENT

**Electronics Technology**

To acquire the **Certificate of Achievement in Electronics Technology**, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC 101 *D/C Electronic Circuits and Devices</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 102 *A/C Electronic Circuits and Devices</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 108 *Introduction to Solid State Devices &amp; Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 111 *Introduction to Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 211 *Advanced Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 240 *Microprocessors &amp; Microcomputing</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required**: 24

* Prerequisite

All of these courses must be completed with a grade of “C” or better.
Elementary Teacher Education
Division of Behavioral & Social Science

ASSOCIATE IN ARTS IN ELEMENTARY TEACHER EDUCATION FOR TRANSFER

The Associate in Arts in 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 additional 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 50-51 semester units in the major with a grade of “C” or better.
4. Certified completion of the California State University General Education-Breadth (CSUGE) 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 Elementary Teacher Education major at the CSU where they seek transfer.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>General Biology ..................4</td>
</tr>
<tr>
<td>CD 106</td>
<td>Child Growth &amp; Development ........3</td>
</tr>
<tr>
<td>ED 110</td>
<td>Introduction to Teaching ........3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>College Composition and Research ........3.5</td>
</tr>
<tr>
<td>ENGL 201 or</td>
<td>Advanced Composition and Critical Thinking</td>
</tr>
<tr>
<td>ENGL 201H</td>
<td>*Advanced Composition and Critical Thinking Honors ................3.5</td>
</tr>
<tr>
<td>GEOL 150</td>
<td>Physical Geology ..................3</td>
</tr>
<tr>
<td>GEOL 151</td>
<td>Physical Geology Laboratory ..........1</td>
</tr>
<tr>
<td>GEOG 103</td>
<td>World Regional Geography ..........3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of World Civilization to the 17th Century ........3</td>
</tr>
<tr>
<td>HIST 143 or</td>
<td>History of the United States to 1877</td>
</tr>
<tr>
<td>HIST 143H</td>
<td>*History of the United States to 1877 Honors ................3</td>
</tr>
<tr>
<td>LIT 102 or</td>
<td>Approaches to Literature</td>
</tr>
<tr>
<td>LIT 102H</td>
<td>*Approaches to Literature Honors ........3</td>
</tr>
<tr>
<td>MATH 140</td>
<td>Mathematics for Elementary Teachers ..................4</td>
</tr>
<tr>
<td>PHYS 120 or</td>
<td>Physics for Everyday Use ........4</td>
</tr>
<tr>
<td>CHEM 120</td>
<td>Introduction to Chemistry ........5</td>
</tr>
<tr>
<td>POLS 110 or</td>
<td>Government of the United States</td>
</tr>
<tr>
<td>POLS 110H</td>
<td>*Government of the United States Honors ................3</td>
</tr>
<tr>
<td>SPCH 101 or</td>
<td>Public Speaking</td>
</tr>
<tr>
<td>SPCH 101H</td>
<td>*Public Speaking Honors ........3</td>
</tr>
</tbody>
</table>

Choose one course from the following list:

<table>
<thead>
<tr>
<th>Required Subtotal</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CSU GE or IGETC Pattern</td>
<td>Varies</td>
</tr>
</tbody>
</table>

Degree Total 60

*Prerequisite
# CERTIFICATE OF SKILL PROFICIENCY

**Emergency Medical Technician**

This Emergency Medical Technician program prepares the entry level EMT to safely stabilize and transport patients to a place of medical care.

To acquire a **Certificate of Achievement in Emergency Medical Technician**, it is necessary to complete the following:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMT 093 <em>Emergency Medical Technician</em></td>
<td>8</td>
</tr>
</tbody>
</table>

**Units Required** 8

*Prerequisite*
**ENGINEERING DESIGN DRAFTING**

DIVISION OF CAREER & TECHNICAL EDUCATION

---

**ASSOCIATE OF SCIENCE DEGREE**

This major curriculum leads to the Associate of Science Degree in Engineering Design Drafting for advanced Tech Prep applications, employment in design, engineering and manufacturing-related industries, public works, utilities and CADD/Drafting-related industries. Upon completion of specific General Education courses, this program also fulfills many of the requirements and foundation courses for transfer to other baccalaureate technical majors within Engineering and Industrial Technology, but is not intended to fulfill transfer requirements for a baccalaureate degree. (See transfer requirements of individual colleges and universities)

To acquire the Associate of Science Degree in Engineering Design Drafting, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 115</td>
<td></td>
</tr>
<tr>
<td>CIV 140</td>
<td></td>
</tr>
<tr>
<td>ENGT 101</td>
<td></td>
</tr>
<tr>
<td>ENGT 105</td>
<td></td>
</tr>
<tr>
<td>ENGT 122</td>
<td></td>
</tr>
<tr>
<td>ENGT 131</td>
<td></td>
</tr>
<tr>
<td>ENGT 150</td>
<td></td>
</tr>
<tr>
<td>ENGT 231</td>
<td></td>
</tr>
<tr>
<td>ENGT 250</td>
<td></td>
</tr>
<tr>
<td>ENGT 270</td>
<td></td>
</tr>
<tr>
<td><strong>Units Required</strong></td>
<td>36</td>
</tr>
</tbody>
</table>

*Prerequisite

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**CERTIFICATE OF ACHIEVEMENT**

**Engineering Design Drafting Technician**

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 Drafting Technician, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 115</td>
<td>Introduction to Residential Architecture: Drawing &amp; Design ..........4</td>
</tr>
<tr>
<td>CIV 140</td>
<td>Civil Drafting Fundamentals.................................3</td>
</tr>
<tr>
<td>ENGT 101</td>
<td>Introduction to Technical Drawing &amp; Graphics......................3</td>
</tr>
<tr>
<td>ENGT 105</td>
<td>Architectural and Technical Freehand Sketching .......................2</td>
</tr>
<tr>
<td>ENGT 122</td>
<td>Engineering Design Graphics................................4</td>
</tr>
<tr>
<td>ENGT 131</td>
<td>*Engineering &amp; Manufacturing Applications of Technical Drawing........................................4</td>
</tr>
<tr>
<td>ENGT 150</td>
<td>AutoCAD for Basic CADD Applications................................4</td>
</tr>
<tr>
<td>ENGT 231</td>
<td>*Technical Product Design &amp; Presentation..........................4</td>
</tr>
<tr>
<td>ENGT 250</td>
<td>*Parametric Modeling 3D Applications for Mechanical Design.........................4</td>
</tr>
<tr>
<td>ENGT 270</td>
<td>*Solid Works for 3D Modeling and Prototype Applications ..............4</td>
</tr>
<tr>
<td><strong>Units Required</strong></td>
<td>28</td>
</tr>
</tbody>
</table>

*Prerequisite
ASSOCIATE IN ARTS IN ENGLISH FOR TRANSFER

Associate in Arts in English for Transfer

The Associate in Arts in English for Transfer (AA-T) Degree is designed to provide foundation studies in English (or similar majors) for those 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 those 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 additional requirements must be met for completion of the AA-T Degree 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. (Students should consult with a counselor for more information.)
3. Completion of the 18.5-19.5 semester 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 English (or similar majors) at the CSU where they seek transfer.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 201 or 201H</td>
<td>Advanced Composition and Critical Thinking</td>
</tr>
<tr>
<td>LIT 102 or 102H</td>
<td>Approaches to Literature</td>
</tr>
</tbody>
</table>

**List A:** Choose two courses from the following list (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIT 112A or 112AH</td>
<td>American Literature</td>
</tr>
<tr>
<td>LIT 112B or 112BH</td>
<td>American Literature</td>
</tr>
<tr>
<td>LIT 144A</td>
<td>World Literature</td>
</tr>
<tr>
<td>LIT 144B</td>
<td>World Literature</td>
</tr>
</tbody>
</table>

**List B:** Choose one course from List A (above) not used or choose one course from List B (below) (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 127 or 127H</td>
<td>Language Structure and Language Use: Introduction to Linguistics</td>
</tr>
<tr>
<td>ENGL 131</td>
<td>Creative Writing</td>
</tr>
</tbody>
</table>

**List C:** Choose any course from List A or B not used above or any of the following courses (3-4 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 125</td>
<td>Grammar and Usage</td>
</tr>
<tr>
<td>ENGL 126</td>
<td>Languages of the World</td>
</tr>
<tr>
<td>LIT 114 or 114H</td>
<td>Children’s and Adolescent Literature</td>
</tr>
<tr>
<td>LIT 142 or 142H</td>
<td>Introduction to Shakespeare</td>
</tr>
<tr>
<td>LIT 143 or 143H</td>
<td>Women in Literature</td>
</tr>
<tr>
<td>LIT 145 or 145H</td>
<td>Introduction to the Novel</td>
</tr>
<tr>
<td>LIT 146BH</td>
<td>World Literature</td>
</tr>
<tr>
<td>LIT 146B or 146AH</td>
<td>World Literature</td>
</tr>
<tr>
<td>LIT 147 or 147H</td>
<td>*American Literature Honors</td>
</tr>
<tr>
<td>LIT 148</td>
<td>*American Literature</td>
</tr>
<tr>
<td>LIT 149</td>
<td>Introduction to Chicana/Chicana Literature</td>
</tr>
<tr>
<td>LIT 201</td>
<td>*French I</td>
</tr>
<tr>
<td>LIT 202</td>
<td>*French II</td>
</tr>
<tr>
<td>SPAN 201 or 201H</td>
<td>*Spanish III</td>
</tr>
<tr>
<td>SPAN 202</td>
<td>*Spanish IV</td>
</tr>
<tr>
<td>SPAN 299</td>
<td>Directed Study: Spanish</td>
</tr>
<tr>
<td>JOUR 120</td>
<td>Communications Reporting</td>
</tr>
<tr>
<td>HUM 110</td>
<td>Survey of Humanities</td>
</tr>
<tr>
<td>HUM 111</td>
<td>Survey of Humanities</td>
</tr>
</tbody>
</table>

Required Subtotal: 18.5-19.5

CSU GE or IGETC Pattern: Varies

Transferable Electives (as needed to reach 60 transferable units): Varies

**Degree Total:** 60

*Prerequisite*
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. Other courses for this major 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 completion of 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 Degree in English and Literature, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 201 or ENGL 201H</td>
<td></td>
</tr>
<tr>
<td>LIT 102 or LIT 102H</td>
<td></td>
</tr>
<tr>
<td>LIT 146A or LIT 146AH</td>
<td></td>
</tr>
<tr>
<td>LIT 146B or LIT 146BH</td>
<td></td>
</tr>
<tr>
<td>*Advanced Composition and Critical Thinking</td>
<td>3.5</td>
</tr>
<tr>
<td>*Approaches to Literature</td>
<td>3</td>
</tr>
<tr>
<td>*British Literature</td>
<td>3</td>
</tr>
<tr>
<td>*British Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose three courses from the list below:

- ENGL 125  *Grammar and Usage...............3
- ENGL 126  Languages of the World...............3
- ENGL 127 or ENGL 127H  *Language Structure and
- ENGL 131  *Language Use: Introduction to Linguistics...............3
- *Creative Writing .........................3
- *American Literature........................3
- *American Literature........................3
- *Children’s and Adolescent Literature...............3
- *Mexican Literature in Translation ................3
- *Women and Literature.........................3
- *Introduction to the Novel....................3
- *Introduction to Poetry......................3
- *Introduction to Shakespeare..................3
- *World Literature............................3
- *World Literature............................3
- *Introduction to the Short Story ..........3
- *Cinema as Literature.......................3
- Introduction to Dramatic Literature...............3
- Introduction to Chicana/Chicano Literature...............3

Units Required 21.5

*Prerequisite
The Associate of Science Degree in Environmental Science prepares students who are intending to transfer to a four-year institution in the environmental sciences. This degree provides for completion of general lower-division course work 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).

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 120</td>
<td>Environmental Biology .................3</td>
</tr>
<tr>
<td>BIOL 120L</td>
<td>*Environmental Biology Lab ...........1</td>
</tr>
<tr>
<td>BIOL 200</td>
<td>*Principles of Biology I ..............5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>*General Chemistry ....................5</td>
</tr>
<tr>
<td>CHEM 140</td>
<td>*General Chemistry ....................5</td>
</tr>
<tr>
<td>ET 290</td>
<td>Cooperative Work Experience/Internship............................................1</td>
</tr>
<tr>
<td>MATH 190 or MATH 190H</td>
<td>*Calculus I ................................4</td>
</tr>
<tr>
<td>PHY 150</td>
<td>*General Physics I .....................4</td>
</tr>
</tbody>
</table>

Units Required 28

*Prerequisite
ENVIRONMENTAL TECHNOLOGY
DIVISION OF MATHEMATICS & SCIENCES

ASSOCIATE OF SCIENCE DEGREE

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, it is necessary to complete the graduation requirements of the College along with the following:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 130</td>
<td>Health Effects of Environmental Hazardous Materials</td>
<td>3</td>
</tr>
<tr>
<td>ET 230</td>
<td>Safety and Emergency Response</td>
<td>4</td>
</tr>
<tr>
<td>ET 260</td>
<td>*Environmental Sampling and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 120</td>
<td>Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 120L</td>
<td>Environmental Biology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GIS 120</td>
<td>Introduction to Geographic Information Systems and Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CIT 101</td>
<td>Introduction to Computer Information Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

*Prerequisite

**Units Required 18-19**

**Suggested Areas of Specialization:**

**Waste Management**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 110</td>
<td>Hazardous Waste Generation/Reduction/Treatment</td>
<td>3</td>
</tr>
<tr>
<td>ET 150</td>
<td>*Hazardous Waste Management Application</td>
<td>4</td>
</tr>
<tr>
<td>ET 200</td>
<td>*Hazardous Materials Management Applications</td>
<td>4</td>
</tr>
<tr>
<td>ET 240</td>
<td>Solid Waste Management Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

**Land Use Planning & Environmental Restoration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AET/ET 280</td>
<td>Green Building Design Principles</td>
<td>3</td>
</tr>
<tr>
<td>ET 160</td>
<td>Hazardous Waste Site Remediation Systems</td>
<td>3</td>
</tr>
<tr>
<td>ET 170</td>
<td>Groundwater Hydrology &amp; Sampling</td>
<td>3</td>
</tr>
<tr>
<td>GIS 230</td>
<td>Geographic Info Systems In Environmental Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Water Resources**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 270</td>
<td>Waste Water Treatment Plant Operations I</td>
<td>3</td>
</tr>
<tr>
<td>ET 271</td>
<td>Waste Water Treatment Plant Operations II</td>
<td>3</td>
</tr>
<tr>
<td>ET 272</td>
<td>Advanced Waste Water Treatment</td>
<td>3</td>
</tr>
</tbody>
</table>

**Alternative & Efficient Energy Systems**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AET/ET 120</td>
<td>Introduction to Alternative Energy Technology</td>
<td>3</td>
</tr>
<tr>
<td>AET/ET 121</td>
<td>Photovoltaic Systems Design &amp; Installation</td>
<td>3</td>
</tr>
<tr>
<td>AET/ET 122</td>
<td>Advanced Photovoltaic Systems</td>
<td>3</td>
</tr>
<tr>
<td>AET/ET 123</td>
<td>Wind Energy Systems Design &amp; Installation</td>
<td>3</td>
</tr>
<tr>
<td>AET/ET 124</td>
<td>Advanced Wind Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>AET/ET 181</td>
<td>Home Energy Management &amp; Auditing</td>
<td>3</td>
</tr>
<tr>
<td>AET/ET 182</td>
<td>Industrial Energy Management &amp; Auditing</td>
<td>3</td>
</tr>
<tr>
<td>AET/ET 280</td>
<td>Green Building Design Principles</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 141</td>
<td>Alternative Fuels I</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 147</td>
<td>Introduction to Hybrid &amp; Electric Vehicle Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Environmental Health & Safety**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 250</td>
<td>Fundamentals of Safety &amp; Health I</td>
<td>3</td>
</tr>
<tr>
<td>ET 251</td>
<td>Fundamentals of Safety &amp; Health II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Environmental Technology**

Miscellaneous Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 290</td>
<td>CWE/Internship for Environmental Technology</td>
<td>1-4</td>
</tr>
<tr>
<td>FTEC 107</td>
<td>Hazardous Materials I</td>
<td>3</td>
</tr>
<tr>
<td>FTEC 108</td>
<td>Hazardous Materials II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Study</td>
<td>1</td>
</tr>
</tbody>
</table>
Environmental Technology

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 120</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 120L</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>3.5</td>
</tr>
<tr>
<td>ET 110</td>
<td>3</td>
</tr>
<tr>
<td>ET 130</td>
<td>3</td>
</tr>
<tr>
<td>ET 150</td>
<td>4</td>
</tr>
<tr>
<td>ET 200</td>
<td>4</td>
</tr>
<tr>
<td>ET 230</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required 30.5

*Prerequisite
ASSOCIATE OF SCIENCE DEGREE

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, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTEC 101</td>
<td>Fire Protection Organization ..........3</td>
</tr>
<tr>
<td>FTEC 102</td>
<td>Principles of Fire &amp; Emergency Services Safety &amp; Survival ..........3</td>
</tr>
<tr>
<td>FTEC 103</td>
<td>Fire Behavior and Combustion ..........3</td>
</tr>
<tr>
<td>FTEC 104</td>
<td>Fire Prevention Technology ..........3</td>
</tr>
<tr>
<td>FTEC 105</td>
<td>Building Construction for Fire Protection ..........3</td>
</tr>
<tr>
<td>FTEC 106</td>
<td>Fire Protection Equipment &amp; Systems ..........3</td>
</tr>
</tbody>
</table>

Choose 6 units from the following:

<table>
<thead>
<tr>
<th>Electives</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMT 093</td>
<td>&quot;Emergency Medical Technician 1-A ..........8</td>
</tr>
<tr>
<td>ET 230</td>
<td>Safety and Emergency Response ..........4</td>
</tr>
<tr>
<td>FAC 043</td>
<td>Advanced Fire Courses (see catalog for 4300 series) varies</td>
</tr>
<tr>
<td>FAC 118</td>
<td>&quot;Firefighter 1 Basic Fire Academy ..........22</td>
</tr>
<tr>
<td>FTEC 044</td>
<td>&quot;Physical Fitness and Ability for the Firefighter ..........3</td>
</tr>
<tr>
<td>FTEC 045</td>
<td>Firefighter Entrance Examination Techniques ..........3</td>
</tr>
<tr>
<td>FTEC 07</td>
<td>Hazardous Materials I ..........3</td>
</tr>
<tr>
<td>FTEC 08</td>
<td>&quot;Hazardous Materials II ..........3</td>
</tr>
<tr>
<td>FTEC 09</td>
<td>Fire Fighting Tactics &amp; Strategy ..........3</td>
</tr>
<tr>
<td>FTEC 110</td>
<td>Rescue Practice ..........3</td>
</tr>
<tr>
<td>FTEC 111</td>
<td>Fire Hydraulics ..........3</td>
</tr>
<tr>
<td>FTEC 112</td>
<td>Fire Apparatus and Equipment ..........3</td>
</tr>
<tr>
<td>FTEC 114</td>
<td>Fire Investigations ..........3</td>
</tr>
<tr>
<td>FTEC 117</td>
<td>Fire Service Management, Safety &amp; Wellness ..........3</td>
</tr>
<tr>
<td>FTEC 121</td>
<td>Emergency Response ..........3</td>
</tr>
<tr>
<td>WFT 101</td>
<td>Wild Land Fire Behavior ..........3</td>
</tr>
</tbody>
</table>

Units Required 24

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Fire Technology

To acquire the Certificate of Achievement in Fire Technology, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTEC 101</td>
<td>Fire Protection Organization ..........3</td>
</tr>
<tr>
<td>FTEC 102</td>
<td>Principles of Fire &amp; Emergency Services Safety &amp; Survival ..........3</td>
</tr>
<tr>
<td>FTEC 103</td>
<td>Fire Behavior and Combustion ..........3</td>
</tr>
<tr>
<td>FTEC 104</td>
<td>Fire Prevention Technology ..........3</td>
</tr>
<tr>
<td>FTEC 105</td>
<td>Building Construction for Fire Protection ..........3</td>
</tr>
<tr>
<td>FTEC 106</td>
<td>Fire Protection Equipment &amp; Systems ..........3</td>
</tr>
<tr>
<td>EMT 093</td>
<td>&quot;Emergency Medical Technician 1-A ..........8</td>
</tr>
<tr>
<td>ET 230</td>
<td>Safety &amp; Emergency Response ..........4</td>
</tr>
<tr>
<td>FAC 043</td>
<td>Advanced Fire Courses (see catalog for 4300 series) varies</td>
</tr>
<tr>
<td>FAC 118</td>
<td>&quot;Firefighter 1 Basic Fire Academy ..........22</td>
</tr>
<tr>
<td>FTEC 044</td>
<td>&quot;Physical Fitness and Ability for the Firefighter ..........3</td>
</tr>
<tr>
<td>FTEC 045</td>
<td>Firefighter Entrance Examination Techniques ..........3</td>
</tr>
<tr>
<td>FTEC 107</td>
<td>Hazardous Materials I ..........3</td>
</tr>
<tr>
<td>FTEC 108</td>
<td>&quot;Hazardous Materials II ..........3</td>
</tr>
<tr>
<td>FTEC 109</td>
<td>Fire Fighting Tactics &amp; Strategy ..........3</td>
</tr>
<tr>
<td>FTEC 110</td>
<td>Rescue Practice ..........3</td>
</tr>
<tr>
<td>FTEC 111</td>
<td>Fire Hydraulics ..........3</td>
</tr>
<tr>
<td>FTEC 112</td>
<td>Fire Apparatus &amp; Equipment ..........3</td>
</tr>
<tr>
<td>FTEC 114</td>
<td>Fire Investigations ..........3</td>
</tr>
<tr>
<td>FTEC 117</td>
<td>Fire Service Management, Safety &amp; Wellness ..........3</td>
</tr>
<tr>
<td>FTEC 121</td>
<td>Emergency Response ..........3</td>
</tr>
<tr>
<td>WFT 101</td>
<td>Wild Land Fire Behavior ..........3</td>
</tr>
</tbody>
</table>

Units Required 24

*Prerequisite
**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 Rio 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 course work 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.
FITNESS SPECIALIST
DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

CERTIFICATE OF ACHIEVEMENT

Fitness Specialist

The Fitness Specialist Certificate Program is designed to prepare students for employment as fitness instructors and a career in the rapidly expanding health and fitness industry. Students will gain academic knowledge and fitness skills through the required course work, as well as 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 the student 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 will also be 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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 115 *Fitness Specialist Internship</td>
<td>2</td>
</tr>
<tr>
<td>KIN 122 Nutrition for Sport and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KIN 126 Principles of Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KIN 127 Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 128 Fitness Testing and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KIN 131 Structure and Analysis of Movement</td>
<td>3</td>
</tr>
<tr>
<td>KIN 145 Theory and Analysis of Fitness Instruction</td>
<td>2</td>
</tr>
<tr>
<td>KIN 146 Training Principles for Special Populations</td>
<td>2</td>
</tr>
</tbody>
</table>

Choose two courses from the list below:

- KINA 130 Lifelong Fitness Laboratory        | 1     |
- KINA 136 Pilates Mat I                        | 1     |
- KINA 158 Yoga I                               | 1     |

Units Required 23

*Prerequisite

GAME DEVELOPMENT
DIVISION OF ARTS & CULTURAL PROGRAM

CERTIFICATE OF SKILL PROFICIENCY

The Game Development certificate is designed to provide students with the technical, creative and artistic skill sets necessary to create industry standard game art.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIM 101 Introduction to Digital 3D Animation</td>
<td>4</td>
</tr>
<tr>
<td>ANIM 120 Lighting and Texture</td>
<td>4</td>
</tr>
<tr>
<td>ANIM 130 Modeling for Games</td>
<td>4</td>
</tr>
<tr>
<td>ART 178 Introduction to Digital Imaging</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 15
GENERAL STUDIES

ASSOCIATE OF ARTS DEGREE

The General Studies degree with an area of emphasis is designed to give students a broad introduction to an area of
knowledge represented by related disciplines and topics. This degree is intended for students who may not be intending to
pursue a specific occupational major, nor are they necessarily planning to transfer. However, careful educational planning
with a counselor will help to ensure that, if a student did decide at a later date to transfer to a university, they would have
a foundation in the transfer planning process. Students will select an “Area of Emphasis” from the following four options
based on their interests and educational goals.

General Studies with an Emphasis in
Arts and Human Expression:

These courses emphasize the study of cultural, literary, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students will 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 Degree in General Studies with an Emphasis in Arts and Human Expression, it is necessary to complete the graduation requirements of the College along with the following courses:

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:

A) ARTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Introduction to the Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>ART 104</td>
<td>Art of the Ancient Americas</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>*Survey of Western Art: Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ART 105H</td>
<td>through the Middle Ages</td>
<td></td>
</tr>
<tr>
<td>ART 106</td>
<td>*Survey of Western Art: Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ART 106H</td>
<td>to Contemporary</td>
<td></td>
</tr>
<tr>
<td>ART 107</td>
<td>The Art of Asia</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>The Art of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>American Art History</td>
<td>3</td>
</tr>
<tr>
<td>ART 110</td>
<td>Understanding Visual Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 112</td>
<td>Visual Art in the Modern Era</td>
<td>3</td>
</tr>
<tr>
<td>ART 113</td>
<td>The History of Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 115</td>
<td>The Art of Film</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two Dimensional Design</td>
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</tr>
<tr>
<td>ART 121</td>
<td>Three Dimensional Design</td>
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<tr>
<td>ART 130</td>
<td>Freehand Drawing I</td>
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<tr>
<td>ART 135</td>
<td>Beginning Painting</td>
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<tr>
<td>ART 140</td>
<td>Ceramics I</td>
<td>3</td>
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<tr>
<td>DANC 199</td>
<td>Dance Appreciation</td>
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<tr>
<td>MUS 101</td>
<td>Fundamentals of Music</td>
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<tr>
<td>MUS 120</td>
<td>Vocal Arts Ensemble</td>
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<tr>
<td>MUS 129</td>
<td>Music in Latin American Culture</td>
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B) HUMAN EXPRESSION

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<tr>
<td>MUS 130</td>
<td>Music History and Literature Before</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1750</td>
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</tr>
<tr>
<td>MUS 131</td>
<td>Music History and Literature After</td>
<td>3</td>
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<td></td>
<td>1750</td>
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<tr>
<td>MUS 132</td>
<td>History of Rock and Roll</td>
<td>3</td>
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<td>MUS 133</td>
<td>Music Appreciation</td>
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<tr>
<td>MUS 134</td>
<td>Rio Hondo College Singers I</td>
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<td>MUS 135</td>
<td>Music in Film</td>
<td>3</td>
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<td>MUS 136</td>
<td>History of Jazz</td>
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<tr>
<td>MUS 155</td>
<td>Music for Dance</td>
<td>3</td>
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<tr>
<td>PHTO 190</td>
<td>Beginning Photography</td>
<td>3</td>
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<tr>
<td>THTR 101</td>
<td>Theatre Arts Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>THTR 105</td>
<td>*The History and Development</td>
<td>3</td>
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<tr>
<td></td>
<td>of the Theatre</td>
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<tr>
<td>THTR 110</td>
<td>Principles of Acting</td>
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<td>THTR 150</td>
<td>Theatre Crafts</td>
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C) SOCIAL SCIENCE

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<tr>
<td></td>
<td>to the 17th Century</td>
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<td>HIST 102</td>
<td>History of World Civilization,</td>
<td>3</td>
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<tr>
<td></td>
<td>1500 to the Present</td>
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<tr>
<td>HIST 112</td>
<td>History of Mexico</td>
<td>3</td>
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<tr>
<td>HIST 131</td>
<td>History of the North American Indian</td>
<td>3</td>
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<tr>
<td>HIST 143</td>
<td>History of the United States</td>
<td>3</td>
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<tr>
<td>HIST 143H</td>
<td>to 1877</td>
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<tr>
<td>HIST 144</td>
<td>*History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 144H</td>
<td>Since 1865</td>
<td></td>
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<tr>
<td>HIST 158</td>
<td>History of Minorities: African</td>
<td>3</td>
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<tr>
<td></td>
<td>Americans and American Indians</td>
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<td>HIST 159</td>
<td>*History of Minorities: Mexican</td>
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<td>HIST 159H</td>
<td>Americans, Asian Americans and</td>
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<td></td>
<td>American Women</td>
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<td>HIST 167</td>
<td>History of California</td>
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<tr>
<td>HIST 170</td>
<td>Women in American History</td>
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<td>Women in American History</td>
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<td>HIST 167</td>
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<td>HIST 170</td>
<td>Women in American History</td>
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<tr>
<td>HUM 110</td>
<td>Survey of Humanities</td>
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**GENERAL STUDIES CONTINUED**

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<td>HUM 125 or HUM 125H</td>
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<td>ITAL 101</td>
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<td>Latin I</td>
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<td>LATN 102</td>
<td>Latin II</td>
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<td>LIT 102 or LIT 102H</td>
<td>*Approaches to Literature</td>
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<td>LIT 112A or LIT 112AH</td>
<td>*American Literature</td>
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<tr>
<td>LIT 112B or LIT 112BH</td>
<td>*American Literature</td>
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<tr>
<td>LIT 114</td>
<td>Elementary and Adolescent Literature</td>
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<tr>
<td>LIT 117 or LIT 117H</td>
<td>Mexican Literature in Translation</td>
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<tr>
<td>LIT 140 or LIT 140H</td>
<td>*Introduction to the Novel</td>
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<tr>
<td>LIT 141</td>
<td>*Introduction to Poetry</td>
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<td>LIT 142 or LIT 142H</td>
<td>*Introduction to Shakespeare</td>
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<tr>
<td>LIT 144A</td>
<td>*World Literature</td>
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<td>LIT 144B</td>
<td>*World Literature</td>
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<tr>
<td>LIT 145 or LIT 145H</td>
<td>*Introduction to the Short Story</td>
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<tr>
<td>LIT 146A or LIT 146AH</td>
<td>*British Literature</td>
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<tr>
<td>LIT 146B or LIT 146BH</td>
<td>*British Literature</td>
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<tr>
<td>LIT 147</td>
<td>*Cinema as Literature</td>
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<tr>
<td>LIT 148</td>
<td>Introduction to Dramatic Literature</td>
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<tr>
<td>LIT 149</td>
<td>Introduction to Chicana/Chicano Literature</td>
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<tr>
<td>PHIL 101 or PHIL 101H</td>
<td>*Introduction to Philosophy</td>
</tr>
<tr>
<td>PHIL 120</td>
<td>Introduction to Ethics</td>
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<tr>
<td>PHIL 124</td>
<td>History of Philosophy: Ancient</td>
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<tr>
<td>PHIL 126</td>
<td>History of Philosophy: Modern</td>
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<tr>
<td>PHIL 128</td>
<td>Introduction to Political Philosophy</td>
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<tr>
<td>PHIL 135</td>
<td>Philosophy &amp; Contemporary Issues</td>
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<tr>
<td>PHIL 140</td>
<td>Philosophy of Religion</td>
</tr>
<tr>
<td>PHIL 150</td>
<td>Introduction to World Religions</td>
</tr>
<tr>
<td>POLS 128</td>
<td>Introduction to Political Philosophy</td>
</tr>
<tr>
<td>SPAN 101</td>
<td>Spanish I</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>*Spanish II</td>
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<tr>
<td>SPAN 130</td>
<td>Spanish for Heritage Speakers I</td>
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<tr>
<td>SPAN 131</td>
<td>*Spanish for Heritage Speakers II</td>
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<tr>
<td>SPAN 201 or SPAN 201H</td>
<td>*Spanish III</td>
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<td>SPAN 202</td>
<td>*Spanish IV</td>
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<td>SPCH 130</td>
<td>Oral Interpretation</td>
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<tr>
<td>SPCH 132</td>
<td>Readers Theatre</td>
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</tbody>
</table>

*Prerequisite

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**General Studies with an Emphasis in Social Behavior and Self-Development**

These courses provide students 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. It 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/community-oriented professions including social, health and recreational services.

To acquire the Associate of Arts Degree in General Studies with an Emphasis in Social Behavior and Self-Development, it is necessary to complete the graduation requirements of the College along with the following courses:

Choose at least one course from each category (A and B). Then complete additional courses from categories A and B to reach a total of 18 units from the following list:

**A) Theory and Knowledge**

<table>
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<th>Course</th>
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<tr>
<td>ANTH 101 or ANTH 101H</td>
<td>Introduction to Physical Anthropology</td>
</tr>
<tr>
<td>ANTH 102 or ANTH 102H</td>
<td>*Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 103</td>
<td>Introduction to Archaeology</td>
</tr>
<tr>
<td>ANTH 110</td>
<td>Human Sexuality from Cross-Cultural Perspective</td>
</tr>
<tr>
<td>ANTH 115</td>
<td>*Introduction to Medical Anthropology</td>
</tr>
<tr>
<td>ANTH 125</td>
<td>Religion, Magic, Witchcraft, and the Supernatural</td>
</tr>
<tr>
<td>CHST 101</td>
<td>Introduction to Chicano Studies</td>
</tr>
<tr>
<td>CHST 146</td>
<td>The Mexican American in the History of the U.S.</td>
</tr>
<tr>
<td>CHST 148</td>
<td>La Chicana: The Contemporary Mexican-American Female</td>
</tr>
<tr>
<td>CHST 150</td>
<td>Chicano Politics</td>
</tr>
<tr>
<td>CD 106</td>
<td>Child Growth and Development</td>
</tr>
<tr>
<td>CD 208</td>
<td>Child, Family and Community</td>
</tr>
<tr>
<td>ECON 101 or ECON 101H</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ECON 102 or ECON 102H</td>
<td>*Principles of Microeconomics</td>
</tr>
<tr>
<td>ECON 106</td>
<td>Economics of Contemporary Issues</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of World Civilization to the 17th Century</td>
</tr>
<tr>
<td>HIST 102</td>
<td>History of World Civilization, 1500 to the Present</td>
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### General Studies

**CONTINUED**

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<tr>
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<tr>
<td>HIST 131</td>
<td>History of the North American Indian</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143 or 143H</td>
<td>History of the United States to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 144 or 144H</td>
<td>*History of the United States Since 1865</td>
<td>3</td>
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<tr>
<td>HIST 158</td>
<td>History of Minorities: African Americans and American Indians</td>
<td>3</td>
</tr>
<tr>
<td>HIST 159 or 159H</td>
<td>*History of Minorities: Mexican Americans, Asian Americans</td>
<td>3</td>
</tr>
<tr>
<td>HIST 167</td>
<td>History of California</td>
<td>3</td>
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<tr>
<td>HIST 170</td>
<td>Women in American History</td>
<td>3</td>
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<tr>
<td>HUM 130</td>
<td>Contemporary Mexican-American ..... Culture</td>
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<td>GEOG 102</td>
<td>Introduction to Cultural Geography</td>
<td>3</td>
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<td>GEOG 103</td>
<td>World Regional Geography</td>
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<td>POLS 110 or 110H</td>
<td>*Government of the United States</td>
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<td>POLS 128</td>
<td>Introduction to Political Philosophy</td>
<td>3</td>
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<tr>
<td>POLS 130</td>
<td>Comparative Government</td>
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<tr>
<td>POLS 140</td>
<td>International Relations</td>
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<tr>
<td>POLS 150</td>
<td>Chicano Politics</td>
<td>3</td>
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<tr>
<td>PSY 101 or 101H</td>
<td>*Introductory Psychology</td>
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<td>Lifespan Development</td>
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<td>PSY 114</td>
<td>Introduction to Abnormal Psychology</td>
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<td>PSY 116</td>
<td>Introduction to Cross-Cultural Psychology</td>
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<td>PSY 121</td>
<td>Drugs, Society, and Behavior</td>
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<td>PSY 123</td>
<td>Drug Education and Prevention</td>
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<td>PSY 133</td>
<td>Personal and Social Adjustment</td>
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<td>PSY 170</td>
<td>Introduction to Learning and Memory</td>
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<td>PSY 180</td>
<td>Positive Psychology</td>
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<td>PSY 200</td>
<td>*Research Methods in Psychology</td>
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<td>*Critical Reading</td>
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<td>*Introduction to Sociology</td>
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<td>Major Social Problems</td>
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<td>SOC 105</td>
<td>Introduction to Human Sexuality</td>
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<tr>
<td>SOC 110</td>
<td>Human Sexuality from a Cross-Cultural Perspective</td>
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<td>SOC 114</td>
<td>Marriage, Family and Intimate Relationships</td>
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<td>SOC 116</td>
<td>Introduction to Race and Ethnic Relations</td>
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<tr>
<td>SOC 120</td>
<td>Perspectives of Sex and Gender</td>
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<tr>
<td>SOC 127</td>
<td>Introduction to Criminology</td>
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</tr>
<tr>
<td>SOC 148</td>
<td>La Chicana: The Contemporary Mexican-American Female</td>
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<td>SPCH 100</td>
<td>Interpersonal Communications</td>
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<td>SPCH 101 or 101H</td>
<td>Public Speaking</td>
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<td>SPCH 102</td>
<td>Fundamentals of Oral Communication</td>
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<td>SPCH 140</td>
<td>Argumentation and Debate</td>
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**B) Growth and Purpose/Health and Wellness**

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<td>College and Life Success</td>
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<tr>
<td>COUN 151 or 151A, 151B, 151C</td>
<td>Career Exploration &amp; Life Planning</td>
<td>3</td>
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<tr>
<td>KIN 191</td>
<td>Health: Personal Issues</td>
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<td>KIN 192</td>
<td>Health: Women’s Personal</td>
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<tr>
<td>KIN 193</td>
<td>Standard First Aid and CPR</td>
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<tr>
<td>KIN 196</td>
<td>Health: Fitness and Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>

*Prerequisite

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**General Studies with an Emphasis in Social Sciences:**

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, it is necessary to complete the graduation requirements of the College along with the following courses:

Choose 18 units of coursework including two or more disciplines from the following list:

- ANTH 101 or ANTH 101H | Introduction to Physical Anthropology | 3
- ANTH 102 or ANTH 102H | *Introduction to Cultural Anthropology | 3
- ANTH 103 | Introduction of Archaeology | 3
- ANTH 110 | Human Sexuality from a Cross-Cultural Perspective | 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

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*CD 208, Los Angeles County; CD 106, Inland Empire, Santa Monica, Carson, and Compton campuses; ANTH 101H, Los Angeles County campus; ANTH 110H, Los Angeles County campus.*
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<td>CHST 146</td>
<td>The Mexican American in the History of the U.S.</td>
<td>3</td>
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<tr>
<td>CHST 148</td>
<td>La Chica: The Contemporary Mexican-American Female</td>
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<td>CHST 150</td>
<td>Chicano Politics</td>
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<td>Principles of Macroeconomics</td>
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<tr>
<td>ECON 102 or ECON 102H</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>Introduction to Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 103</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>History of World Civilization to the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>History of World Civilization, 1500 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 122</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 131</td>
<td>History of the North American Indian</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143 or HIST 143H</td>
<td>History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 144 or HIST 144H</td>
<td>History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 158</td>
<td>History of Minorities: African Americans and American Indians</td>
<td>3</td>
</tr>
<tr>
<td>HIST 159 or HIST 159H</td>
<td>History of Minorities: Mexican Americans, Asian Americans and American Women</td>
<td>3</td>
</tr>
<tr>
<td>HIST 167</td>
<td>History of California</td>
<td>3</td>
</tr>
<tr>
<td>HIST 170</td>
<td>Women in American History</td>
<td>3</td>
</tr>
<tr>
<td>HUM 130</td>
<td>Contemporary Mexican-American Culture</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 128</td>
<td>Introduction to Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 110 or POLS 110H</td>
<td>Government of the United States</td>
<td>3</td>
</tr>
<tr>
<td>POLS 128</td>
<td>Introduction to Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>POLS 130</td>
<td>Comparative Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 140</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLS 150</td>
<td>Chicano Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101 or PSY 101H</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 112</td>
<td>Lifespan Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 114</td>
<td>Introduction to Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 116</td>
<td>Introduction to Cross-Cultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 170</td>
<td>Introduction to Learning and Memory</td>
<td>3</td>
</tr>
<tr>
<td>PSY 180</td>
<td>Positive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 200</td>
<td>*Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101 or SOC 101H</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 102</td>
<td>Major Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 105</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOC 110</td>
<td>Human Sexuality from a Cross-Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>SOC 114</td>
<td>Marriage, Family and Intimate Relationships</td>
<td>3</td>
</tr>
<tr>
<td>SOC 116</td>
<td>Introduction to Race and Ethnic Relationships</td>
<td>3</td>
</tr>
<tr>
<td>SOC 120</td>
<td>Perspectives of Sex &amp; Gender</td>
<td>3</td>
</tr>
<tr>
<td>SOC 127</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 148</td>
<td>La Chica: The Contemporary Mexican-American Female</td>
<td>3</td>
</tr>
</tbody>
</table>
These courses emphasize the natural sciences, which examine the physical universe, its life forms and its 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 will be able to demonstrate an understanding of the methodologies of science as investigative tools. Students will 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 Degree in General Studies with an Emphasis in Science and Mathematics**, it is necessary to complete the graduation requirements of the College along with the following courses:

Choose at least one course from each category (A, B and C) and then complete additional courses in any category to total 18 units from the following list. Among these courses the student must complete at least one laboratory course.

### A) Life Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101 or ANTH 101H</td>
<td>Introduction to Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 101L</td>
<td>Physical Anthropology Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 105</td>
<td>Human Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 111</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 111L</td>
<td>*Marine Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 112</td>
<td>Outdoor Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 120</td>
<td>Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 120L</td>
<td>*Environmental Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 200</td>
<td>*Principles of Biology 1 (Molecular and Cellular Biology)</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 201</td>
<td>*Principles of Biology 2 (Diversity and Ecology)</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 222</td>
<td>*Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 226</td>
<td>*Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 210 or PSY 210H</td>
<td>*Biological Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

### B) Physical Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 110 or ASTR 110H</td>
<td>General Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 112</td>
<td>*Observational Astronomy</td>
<td>1</td>
</tr>
<tr>
<td>ASTR 114</td>
<td>*Observational Astronomy</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemistry and Our World</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 101L</td>
<td>*Chemistry and Our World Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>*Chemistry for Allied Health Majors</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 120</td>
<td>*Introduction to Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>*General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 140</td>
<td>*General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 230</td>
<td>*Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 231</td>
<td>*Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 101</td>
<td>Introduction to Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 101L</td>
<td>*Introduction to Physical Geography Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 150</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 151</td>
<td>*Physical Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHY 120</td>
<td>*Physics for Everyday Use</td>
<td>4</td>
</tr>
<tr>
<td>PHY 150</td>
<td>*General Physics-I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 160</td>
<td>*General Physics-II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 211</td>
<td>*Physics for Scientists and Engineers-I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 212</td>
<td>*Physics for Scientists and Engineers-II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 213</td>
<td>*Physics for Scientists and Engineers-III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Physics and Chemistry for Teachers</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 102</td>
<td>Earth and Space Sciences for Teachers</td>
<td>4</td>
</tr>
<tr>
<td>MATH 120</td>
<td>*Finite Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H</td>
<td>*Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 140</td>
<td>*Mathematics for Elementary Teachers</td>
<td>4</td>
</tr>
<tr>
<td>MATH 160</td>
<td>*College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 170</td>
<td>*Elements of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 175</td>
<td>*Plane Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 180</td>
<td>*Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 190 or MATH 190H</td>
<td>*Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 191</td>
<td>*Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250</td>
<td>*Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 260</td>
<td>*Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 270</td>
<td>*Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PSY 190</td>
<td>*Statistics for the Behavioral Sciences</td>
<td>4</td>
</tr>
</tbody>
</table>

### C) Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 120</td>
<td>*Finite Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H</td>
<td>*Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 140</td>
<td>*Mathematics for Elementary Teachers</td>
<td>4</td>
</tr>
<tr>
<td>MATH 160</td>
<td>*College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 170</td>
<td>*Elements of Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 175</td>
<td>*Plane Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 180</td>
<td>*Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 190 or MATH 190H</td>
<td>*Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 191</td>
<td>*Calculus II</td>
<td>4</td>
</tr>
<tr>
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<td>*Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 260</td>
<td>*Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 270</td>
<td>*Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>PSY 190</td>
<td>*Statistics for the Behavioral Sciences</td>
<td>4</td>
</tr>
</tbody>
</table>

*Prerequisite
CERTIFICATE OF ACHIEVEMENT

This Certificate of Achievement in Geographic Information Systems (GIS) targets students interested in becoming a GIS Technician. A GIS technician utilizes standard GIS tools and utilities to enter and correct data in GIS databases such as locating addresses, georeferencing scanned maps, digitizing and collecting and processing data from the field. Most duties assigned to GIS Technicians are routine with a heavy amount of database entry and management with 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 at Rio Hondo College have degrees in a variety of disciplines. After completing the GIS courses, these students could be labeled as the GIS Analyst within their area of discipline (Crime Analyst, Environmental Planner, etc.)

To acquire the Geographic Information Systems Certificate of Achievement, you must complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 120 Introduction to Geographic Information Systems and Spatial Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GIS 220 *GIS Applications</td>
<td>4</td>
</tr>
<tr>
<td>GIS 221 *Cartography Design and Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 150 or AutoCAD for Basic CADD Applications</td>
<td>4</td>
</tr>
<tr>
<td>ENGT 170 MicroStation for Basic CADD Applications</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following focus areas below:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 230 *Geographic Information Systems in Environmental Technology</td>
<td>3</td>
</tr>
<tr>
<td>CIVIL 142 Introduction to Surveying and GPS</td>
<td>4</td>
</tr>
<tr>
<td>GIS 281 Crime Mapping and Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required 19 - 20

*Prerequisite
# HEAVY EQUIPMENT TECHNOLOGY
## DIVISION OF CAREER & TECHNICAL EDUCATION

## ASSOCIATE OF SCIENCE DEGREE

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 enhance the student’s ability to perform a wide variety of services and repairs required by modern heavy equipment machinery. The Degree is designed to prepare an individual for entry-level employment as a Heavy Equipment Service Technician.

To acquire the Associate of Science Degree in Heavy Equipment Technology, it is necessary to complete the graduation requirements of the College along with the following courses, with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HET 040 Introduction to Heavy Equipment Technology</td>
<td>4</td>
</tr>
<tr>
<td>HET 041 Heavy Equipment Electrical Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>HET 042 Heavy Equipment Heating, Ventilation and Air Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>HET 043 Heavy Equipment Hydraulic Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>HET 044 Heavy Equipment Diesel Engines</td>
<td>4</td>
</tr>
<tr>
<td>HET 045 Heavy Equipment Powertrains I</td>
<td>4</td>
</tr>
<tr>
<td>HET 046 Heavy Equipment Fuel Systems and Emissions</td>
<td>4</td>
</tr>
<tr>
<td>HET 047 Heavy Equipment Machine Specific Instruction</td>
<td>2</td>
</tr>
<tr>
<td>HET 048 Heavy Equipment Powertrains II</td>
<td>4</td>
</tr>
<tr>
<td>HET 049 Heavy Equipment Hydraulic Diagnostics</td>
<td>4</td>
</tr>
<tr>
<td>HET 050 Heavy Equipment Electrical Diagnosis</td>
<td>4</td>
</tr>
<tr>
<td>HET 290 Cooperative Work Experience/Internship</td>
<td>1</td>
</tr>
<tr>
<td>TCED 044 OSHA Workplace Safety</td>
<td>1</td>
</tr>
<tr>
<td>WELD 040 Introduction to Welding Processes</td>
<td>2</td>
</tr>
</tbody>
</table>

Units Required 42

## CERTIFICATE OF ACHIEVEMENT

### Heavy Equipment Service Technician Specialist

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 enhance the student’s ability to perform a wide variety of services and repairs required by modern heavy equipment machinery. The Certificate is designed to prepare an individual for entry-level employment as a Heavy Equipment Service Technician Specialist.

To acquire the Heavy Equipment Service Technician Specialist Certificate, it is necessary to complete the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HET 040 Introduction to Heavy Equipment Technology</td>
<td>4</td>
</tr>
<tr>
<td>HET 041 Heavy Equipment Electrical Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>HET 042 Heavy Equipment Heating, Ventilation and Air Conditioning</td>
<td>2</td>
</tr>
<tr>
<td>HET 043 Heavy Equipment Hydraulic Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>HET 044 Heavy Equipment Diesel Engines</td>
<td>4</td>
</tr>
<tr>
<td>HET 045 Heavy Equipment Powertrains I</td>
<td>4</td>
</tr>
<tr>
<td>HET 046 Heavy Equipment Fuel Systems and Emissions</td>
<td>4</td>
</tr>
<tr>
<td>HET 047 Heavy Equipment Machine Specific Instruction</td>
<td>2</td>
</tr>
<tr>
<td>HET 048 Heavy Equipment Powertrains II</td>
<td>4</td>
</tr>
<tr>
<td>HET 049 Heavy Equipment Hydraulic Diagnostics</td>
<td>4</td>
</tr>
<tr>
<td>HET 050 Heavy Equipment Electrical Diagnosis</td>
<td>4</td>
</tr>
<tr>
<td>HET 290 Cooperative Work Experience/Internship</td>
<td>1</td>
</tr>
<tr>
<td>TCED 044 OSHA Workplace Safety</td>
<td>1</td>
</tr>
<tr>
<td>WELD 040 Introduction to Welding Processes</td>
<td>2</td>
</tr>
</tbody>
</table>

Units Required 42

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2015-2016 Catalog
ASSOCIATE IN ARTS IN HISTORY FOR TRANSFER

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. 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 additional 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 18 semester units in the major with a grade of “C” or better.
4. Certified completion of the California State University General Education-Breadth (CGE) 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>History of World Civilization to the 17th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>History of World Civilization, 1500 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143 or HIST 143H</td>
<td>History of the United States to 1877 Honors</td>
<td>3</td>
</tr>
<tr>
<td>HIST 144 or HIST 144H</td>
<td>History of the United States Since 1865 Honors</td>
<td>3</td>
</tr>
<tr>
<td>HIST 158</td>
<td>History of Minorities: African Americans and American Indians</td>
<td>3</td>
</tr>
<tr>
<td>HIST 159 or HIST 159H</td>
<td>History of Minorities: Mexican Americans, Asian Americans and American Women Honors</td>
<td>3</td>
</tr>
<tr>
<td>HIST 170</td>
<td>Women in American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 122</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101 or ECON101H</td>
<td>Principles of Macroeconomics Honors</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102 or ECON102H</td>
<td>Principles of Microeconomics Honors</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>Introduction to Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 101 or PHIL 101H</td>
<td>Introduction to Philosophy Honors</td>
<td>3</td>
</tr>
<tr>
<td>POLS 110 or POLS110H</td>
<td>Government of the United States Honors</td>
<td>3</td>
</tr>
<tr>
<td>POLS 150/CHST150</td>
<td>Chicano Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Subtotal .................................................. 18

CSU GE or IGETC Pattern ........................................... Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite
HONDA PROFESSIONAL AUTOMOTIVE CAREER TRAINING PROGRAM SPECIALIZATION (PACT)
DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

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 (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 an individual for transfer and/or entry-level employment as an Automotive Technician within a Honda/Acura Dealer. This is a full-time two-year accelerated training and career placement program.

To acquire the **Associate of Science Degree in Honda Professional Automotive Career Training Program Specialization**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 045</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 0451</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 046</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 0461</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 102</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 125</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 140</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 150</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 160</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 201</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 240</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required 43

*Prerequisite
CERTIFICATE OF ACHIEVEMENT

**Honda/Acura Air Conditioning and Supplemental Restraint Systems**

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-6 Electrical/Electronic Systems and A-7 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 as express service technicians and/or entry-level repair technicians.

To acquire the Certificate of Achievement **Honda/Acura Air Conditioning and Supplemental Restraint Systems**, it is necessary to complete the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 102</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 0461</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 240</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 106 or AUTO 290</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required**: 14

*Prerequisite

---

CERTIFICATE OF ACHIEVEMENT

**Honda/Acura Brakes, Suspension, and Electronic Systems**

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-4 Suspension and Steering, A-5 Brakes, and A-6 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 as express service technicians and/or entry-level repair technicians.

To acquire the Certificate of Achievement **Honda/Acura Brakes, Suspension, and Electronic Systems**, it is necessary to complete the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 102</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 140</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 201</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 045 or AUTO 290</td>
<td>4</td>
</tr>
</tbody>
</table>

**Units Required**: 15

*Prerequisite
CERTIFICATE OF ACHIEVEMENT

Honda/Acura Engine Repair and Chassis Electrical Systems

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-1 Engine Repair, A-6 Electrical/Electronic Systems, and A-8 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 as express service technicians and/or entry-level repair technicians.

To acquire the Certificate of Achievement Honda/Acura Engine Repair and Chassis Electrical Systems, it is necessary to complete the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 102</td>
<td></td>
</tr>
<tr>
<td>Introduction to Honda/Acura Service and Repair ..................3</td>
<td></td>
</tr>
<tr>
<td>AUTO 0451</td>
<td></td>
</tr>
<tr>
<td>Honda/Acura Chassis</td>
<td></td>
</tr>
<tr>
<td>Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 150</td>
<td></td>
</tr>
<tr>
<td>*Engine Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 160</td>
<td></td>
</tr>
<tr>
<td>*Upper End Engine Rebuilding and Machining</td>
<td>4</td>
</tr>
</tbody>
</table>

Units Required 15

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Honda/Acura Power Train and Transmission Systems

The courses listed in this certificate together complete a comprehensive training package for students that include both cognitive and skill-based training activities. The training from these courses helps to prepare students for ASE Certification areas A-2 Automatic Transmission/Transaxle, A-3 Manual Drive Train and Axles, and A-6 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 as express service technicians and/or entry-level repair technicians.

To acquire the Certificate of Achievement Honda/Acura Power Train and Transmission Systems, it is necessary to complete the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 102</td>
<td></td>
</tr>
<tr>
<td>Introduction to Honda/Acura Service and Repair ..................3</td>
<td></td>
</tr>
<tr>
<td>AUTO 046</td>
<td></td>
</tr>
<tr>
<td>Honda/Acura Automatic Transmission Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 125</td>
<td></td>
</tr>
<tr>
<td>*Power Train System Service and Transmission Diagnostics</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 106 or</td>
<td></td>
</tr>
<tr>
<td>Automotive Electrical Tools and Diagnostic Procedures ..........</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 290</td>
<td></td>
</tr>
<tr>
<td>Cooperative Work Experience/Internship for Automotive Technology Related Fields</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 14

*Prerequisite
HUMAN SERVICES
DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

CERTIFICATE OF SKILL PROFICIENCY

The required courses for the Human Services Certificate provide applied, theoretical and practical knowledge to students interested in the helping professions. In addition, the student develops the skills needed for employment in the human services field, such as the ability to manage and document client cases, lead groups, and make referrals. A required component of this Certificate is a field work class which provides the student with experience and exposure to work in the human services field.

The Human Services Certificate is designed to provide the student with the academic background and work experience that would make them competitive for entry-level positions in human services agencies and organizations.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUSR 111</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 122</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 124</td>
<td>3</td>
</tr>
<tr>
<td>HUSR 199</td>
<td>3</td>
</tr>
<tr>
<td>SOC 102</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 15

INTERNATIONAL BUSINESS
DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The Degree in International Business 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, it is necessary to complete the graduation requirements of the College along with the following courses with a grade of “C” or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>4</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>3</td>
</tr>
<tr>
<td>LOG 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 108</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 140</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 141</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 142</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 143</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 144</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 28

CERTIFICATE OF ACHIEVEMENT

International Business

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 140</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 141</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 142</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 143</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 144</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 290</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 18 or 19

Units Required 28
ASSOCIATE IN ARTS IN JOURNALISM FOR TRANSFER

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCM 128</td>
<td>Mass Media In Modern Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 120</td>
<td>Communications Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 241</td>
<td>Newspaper Production I</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 242</td>
<td>Digital Newspaper I</td>
<td>4</td>
</tr>
</tbody>
</table>

LIST A: Select one (3-4 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 110</td>
<td>Digital Photo Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 243</td>
<td>Newspaper Production II</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 244</td>
<td>Digital Newspaper Production II</td>
<td>4</td>
</tr>
</tbody>
</table>

LIST B: Select two (6-8 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 172</td>
<td>Desk Top Publishing</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101H</td>
<td>Principles of Macroeconomics Honors</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 201</td>
<td>Advanced Composition</td>
<td>3.5</td>
</tr>
<tr>
<td>ENGL 201H</td>
<td>Advanced Composition Honors</td>
<td>3.5</td>
</tr>
<tr>
<td>JOUR 147</td>
<td>Broadcast News</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 130H</td>
<td>Statistics Honors</td>
<td>4</td>
</tr>
<tr>
<td>PSY 190</td>
<td>Statistics for the Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 112</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 190</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>POLS 110</td>
<td>Government of the United States</td>
<td>3</td>
</tr>
<tr>
<td>POLS 110H</td>
<td>Government of the United States Honors</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 140</td>
<td>Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 240</td>
<td>*Argumentation and Discussion</td>
<td>3</td>
</tr>
</tbody>
</table>

If not chosen above, the following courses may be used to satisfy the List B requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 110</td>
<td>Digital Photo Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 243</td>
<td>Newspaper Production II</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 244</td>
<td>Digital Newspaper Production II</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Subtotal ............................................. 19-21.5

CSU GE or IGETC Pattern ....................................Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total  60

*Prerequisite
ASSOCIATE IN ARTS IN KINESIOLOGY FOR TRANSFER

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 125</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 226</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>KIN 194</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
</tr>
</tbody>
</table>

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:

AQUATICS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINA 117</td>
<td>Swimming I</td>
<td>1</td>
</tr>
<tr>
<td>KINA 217</td>
<td>Swimming II</td>
<td>1</td>
</tr>
</tbody>
</table>

COMBATIVE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINA 124</td>
<td>Self-Defense</td>
<td>1</td>
</tr>
</tbody>
</table>

DANCE

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 151</td>
<td>Modern Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 168</td>
<td>Latin Social Dance</td>
<td>1</td>
</tr>
</tbody>
</table>

FITNESS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINA 120</td>
<td>Swim for Fitness</td>
<td>1</td>
</tr>
<tr>
<td>KINA 132</td>
<td>Aqua Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>KINA 134</td>
<td>Cardio Boot Camp</td>
<td>1</td>
</tr>
<tr>
<td>KINA 136</td>
<td>Pilates Mat I</td>
<td>1</td>
</tr>
<tr>
<td>KINA 140</td>
<td>Fitness Walking</td>
<td>1</td>
</tr>
<tr>
<td>KINA 158</td>
<td>Yoga</td>
<td>1</td>
</tr>
</tbody>
</table>

INDIVIDUAL SPORTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINA 101</td>
<td>Tennis I</td>
<td>1</td>
</tr>
<tr>
<td>KINA 107</td>
<td>Badminton I</td>
<td>1</td>
</tr>
<tr>
<td>KINA 113</td>
<td>Golf I</td>
<td>1</td>
</tr>
</tbody>
</table>

TEAM SPORTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINA 103</td>
<td>Softball I</td>
<td>1</td>
</tr>
<tr>
<td>KINA 104</td>
<td>Volleyball I</td>
<td>1</td>
</tr>
<tr>
<td>KINA 105</td>
<td>Basketball I</td>
<td>1</td>
</tr>
<tr>
<td>KINA 109</td>
<td>Soccer I</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose 2 courses from the following:

MATH 130 or MATH 130H or  *Statistics* ...........................................4

PSY 190 or *Statistics for the Behavioral Sciences* ................................4

CHEM 130 or *General Chemistry* ..................................................5

PHY 150 or PHY 211 or *General Physics I* ...........................................4

ENGINEERS I ..........................................................4

KIN 193 or *Physics for Scientists and Engineers I* .........................3

KIN 193 or First Aid and C.P.R.........................................................3

Required Subtotal ........................................................................21 - 23

CSU GE or IGETC Pattern ......................................................... Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

Associate in Arts in Kinesiology for Transfer

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 additional requirements must be met for completion of the AA-T Associate in Arts in Kinesiology for Transfer:

1. Completion of 60 CSU-transferable 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 21-23 semester units in the major with a grade of “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.
# KINESIOLOGY
## DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

## CAREER CERTIFICATE

### Athletic Trainer’s Aide

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.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 290 *Internship for Athletic Training</td>
<td>4</td>
</tr>
<tr>
<td>KIN 193 Standard First Aid and CPR</td>
<td>3</td>
</tr>
<tr>
<td>KIN 194 Introduction to Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 197 Prevention and Treatment of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KIN 297 *Advanced Athletic Training</td>
<td>3</td>
</tr>
</tbody>
</table>

### Units Required

16

*Prerequisite*
LOGISTICS MANAGEMENT
DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

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 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 Associate of Science Degree in Logistics Management, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSL 110</td>
<td>3</td>
</tr>
<tr>
<td>LOG 101</td>
<td>3</td>
</tr>
<tr>
<td>LOG 105</td>
<td>3</td>
</tr>
<tr>
<td>LOG 110</td>
<td>3</td>
</tr>
<tr>
<td>LOG 115</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 101</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101 or</td>
<td>3</td>
</tr>
<tr>
<td>LOG 130</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following classes:
- ACCT 090 or Introduction to Accounting .............3
- ACCT 101 or Financial Accounting ...................4

In addition to the Required Courses, students will choose from one of the following specializations or select one course from each specialization.

Transportation Specialization Courses: .....................Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 120</td>
<td>4</td>
</tr>
<tr>
<td>LOG 120</td>
<td>3</td>
</tr>
<tr>
<td>LOG 125</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL UNITS 33 or 34

International Trade Specialization Courses: ...............Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGMT 140</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 142</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 143</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 33 or 34

Operations Management Specialization .....................Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG 135</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 150</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 155</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL UNITS 33 or 34

Selecting one course from each specialization:

TOTAL UNITS 32 - 35

CERTIFICATE OF ACHIEVEMENT

This certificate is designed to prepare students for entry-level employment in logistics, transportation, inventory management, and purchasing. 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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG 101</td>
<td>3</td>
</tr>
<tr>
<td>LOG 105</td>
<td>3</td>
</tr>
<tr>
<td>LOG 110</td>
<td>3</td>
</tr>
<tr>
<td>LOG 115</td>
<td>3</td>
</tr>
<tr>
<td>LOG 120</td>
<td>3</td>
</tr>
<tr>
<td>LOG 125</td>
<td>2</td>
</tr>
</tbody>
</table>

Units Required 17
ASSOCIATE OF SCIENCE DEGREE

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 the may develop management and supervision abilities through advanced student and job experience.

To acquire the Associate of Science Degree in Management and Supervision, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSL 110 Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101 Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 105 Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 108 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 120 Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 146 Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 150 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170 Elements of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 27

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Management and Supervision

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSL 110 Legal Environment of Business</td>
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</tr>
<tr>
<td>CIT 101 Introduction to Information Systems</td>
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</tr>
<tr>
<td>MGMT 101 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 105 Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 108 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 120 Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 146 Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 150 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170 Elements of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 27

*Prerequisite
### ASSOCIATE OF SCIENCE DEGREE

To acquire the Associate of Science Degree in **Mass Communications: Mass Media**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 115</td>
<td>Art of Film.............................3</td>
</tr>
<tr>
<td>JOUR 110</td>
<td>Digital Photo Journalism...............3</td>
</tr>
<tr>
<td>JOUR 120</td>
<td>Communications Reporting &amp; Writing...3</td>
</tr>
<tr>
<td>JOUR 147</td>
<td>Broadcast News..........................3</td>
</tr>
<tr>
<td>LIT 147</td>
<td>*Cinema as Literature..................3</td>
</tr>
<tr>
<td>MSCM 103</td>
<td>Survey of Motion Picture, Radio and Television...3</td>
</tr>
<tr>
<td>MSCM 128</td>
<td>Mass Media in Modern Society.........3</td>
</tr>
<tr>
<td>MSCM 134</td>
<td>Documentary Film........................3</td>
</tr>
<tr>
<td>RDIO 104</td>
<td>Introduction to Broadcasting..........3</td>
</tr>
<tr>
<td>TV 135</td>
<td>Creative Digital Video................3</td>
</tr>
<tr>
<td>JOUR 290 or</td>
<td>*CWE/Internship for Journalism Related Fields...3</td>
</tr>
<tr>
<td>RDIO 290</td>
<td>*CWE/Internship for Radio Related Fields........................1</td>
</tr>
</tbody>
</table>

**Units Required** 31

*Prerequisite

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### CERTIFICATE OF ACHIEVEMENT

#### Mass Media

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 115</td>
<td>Art of Film.............................3</td>
</tr>
<tr>
<td>JOUR 110</td>
<td>Digital Photo Journalism...............3</td>
</tr>
<tr>
<td>JOUR 120</td>
<td>*Communications Reporting &amp; Writing...3</td>
</tr>
<tr>
<td>JOUR 147</td>
<td>Broadcast News..........................3</td>
</tr>
<tr>
<td>LIT 147</td>
<td>*Cinema as Literature..................3</td>
</tr>
<tr>
<td>MSCM 103</td>
<td>Survey of Motion Picture, Radio and Television...3</td>
</tr>
<tr>
<td>MSCM 128</td>
<td>Mass Media in Modern Society.........3</td>
</tr>
<tr>
<td>MSCM 134</td>
<td>Documentary Film........................3</td>
</tr>
<tr>
<td>RDIO 104</td>
<td>Introduction to Broadcasting..........3</td>
</tr>
<tr>
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<td>Creative Digital Video................3</td>
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<tr>
<td>JOUR 290 or</td>
<td>*CWE/Internship for Journalism Related Fields...3</td>
</tr>
<tr>
<td>RDIO 290</td>
<td>*CWE/Internship for Radio Related Fields........................1</td>
</tr>
</tbody>
</table>

**Units Required** 31

*Prerequisite
## MASS COMMUNICATIONS/PRINT MEDIA
### DIVISION OF COMMUNICATIONS & LANGUAGES

### ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Mass Communications: Print Media**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 110 Digital Photo Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 120 Communications Reporting &amp; Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 147 Broadcast News</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 220 *Advanced Reporting &amp; Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 230 *Magazine Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 231 Digital Magazine Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 241 *Newspaper Production I</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 242 Digital Newspaper Production I</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 243 *Newspaper Production II</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 244 *Digital Newspaper Production II</td>
<td>4</td>
</tr>
<tr>
<td>MSCM 128 Mass Media in Modern Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 290 or *CWE/Internship for Journalism Related Fields</td>
<td></td>
</tr>
<tr>
<td>RDIO 290 *CWE/Internship for Radio Related Fields</td>
<td>1</td>
</tr>
</tbody>
</table>

Units Required: **38**

*Prerequisite

### CERTIFICATE OF ACHIEVEMENT

#### Print Media

The **Mass Communications 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**, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 110 Digital Photo Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 120 Communications Reporting &amp; Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 147 Broadcast News</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 220 *Advanced Reporting &amp; Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 230 *Magazine Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 231 Digital Magazine Production</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 241 *Newspaper Production I</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 242 Digital Newspaper Production I</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 243 *Newspaper Production II</td>
<td>4</td>
</tr>
<tr>
<td>JOUR 244 *Digital Newspaper Production II</td>
<td>4</td>
</tr>
<tr>
<td>MSCM 128 Mass Media in Modern Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 290 or *CWE/Internship for Journalism Related Fields</td>
<td></td>
</tr>
<tr>
<td>RDIO 290 *CWE/Internship for Radio Related Fields</td>
<td>1</td>
</tr>
</tbody>
</table>

Units Required: **38**

*Prerequisite
**ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER**

**Associate in Science in Mathematics for Transfer**

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 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 additional 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 20 semester units in the major with a grade of “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.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 190 or MATH 190H</td>
<td>4</td>
</tr>
<tr>
<td>MATH 191</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250</td>
<td>4</td>
</tr>
</tbody>
</table>

Students must also choose 2 courses from the following list:

- MATH 260 *Linear Algebra*..................4
- MATH 270 *Differential Equations...............4
- MATH 130 or MATH 130H *Statistics..................4
- PHY 211 *Physics for Scientists and Engineers..................4

Required Subtotal ...........................................20

CSU GE or IGETC Pattern ...........................................Varies

Transferable Electives (as needed to reach 60 transferable units)

**Degree Total 60**

*Prerequisite
The Associate of Arts Degree in Music 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. Graduates receive an Associate of Arts degree in Music.

Students entering the program with the intent to perform will gain valuable experience and performance skills performing in our various choirs and our unique multi-instrument ensemble. The various levels of study in vocal, instrumental, theory, musicianship, and keyboard skills will supply students with the necessary abilities to excel in those areas when they complete the music program at Rio Hondo College.

To acquire the Associate of Arts Degree in Music, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101</td>
<td>Fundamentals of Music For Non-Music Majors</td>
</tr>
<tr>
<td>MUS 103</td>
<td>*Music Theory I</td>
</tr>
<tr>
<td>MUS 104</td>
<td>*Music Theory II</td>
</tr>
<tr>
<td>MUS 106</td>
<td>*Beginning Musicianship I</td>
</tr>
<tr>
<td>MUS 107</td>
<td>*Beginning Musicianship II</td>
</tr>
<tr>
<td>MUS 130</td>
<td>Music History and Literature Before 1750</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Music History and Literature After 1750</td>
</tr>
<tr>
<td>MUS 145</td>
<td>Beginning Piano I</td>
</tr>
<tr>
<td>MUS 146</td>
<td>*Beginning Piano II</td>
</tr>
<tr>
<td>MUS 147</td>
<td>*Intermediate Piano I</td>
</tr>
<tr>
<td>MUS 148</td>
<td>*Intermediate Piano II</td>
</tr>
<tr>
<td>MUS 156</td>
<td>*Intermediate Musicianship I</td>
</tr>
<tr>
<td>MUS 157</td>
<td>*Intermediate Musicianship II</td>
</tr>
</tbody>
</table>

Choose 4 courses from the following list:

| MUS 116          | Music Ensemble for Diverse Instruments I | 2.5 |
| MUS 117          | *Music Ensemble for Diverse Instruments II | 2.5 |
| MUS 120          | Vocal Arts Ensemble I | 2 |
| MUS 134          | *Rio Hondo College Singers I | 2 |
| MUS 138          | Masterworks Chorale | 2 |
| MUS 139          | *Advanced Vocal Ensemble I | 2 |
| MUS 158          | *Masterworks Chorale II | 2 |
| MUS 216          | *Advanced Music Ensemble for Diverse Instruments I | 2.5 |
| MUS 217          | *Advanced Music Ensemble for Diverse Instruments II | 2.5 |
| MUS 220          | *Vocal Arts Ensemble II | 2 |

Units Required: 41-43

*Prerequisite
NURSING PROGRAM OVERVIEW

Rio Hondo College provides all qualified candidates who have applied for admission to any Health Science and Nursing program an equal opportunity to successfully complete their studies. There are, however, two limiting factors affecting selection which must be recognized by all students:

1. The health, safety, and welfare of the community and the student must be a consideration in the selection process.
2. College and community health facilities limit the number of candidates that can be admitted.

Rio Hondo College shall give to student applicants credit in the appropriate field for previous education and the opportunity to obtain credit for other acquired knowledge by the use of the challenge examination. See Credit by Examination Procedure.

Admission, transfer and credit by examination policies shall be posted in an area accessible to all interested persons. A copy of the policy may be obtained upon request. This information shall also be made available through the Counseling Department and on the Rio Hondo College web site.

Credit for Non-Collegiate Registered Nursing Training
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 Rio Hondo College.

Associate Degree Nursing Program
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 in Science Degree of Nursing. The program is accredited 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.

Philosophy
The philosophy of the nursing program is in harmony with the mission, vision, and goals of Rio Hondo College. The Associate Degree Nursing Program strives to be an exemplar 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 competency-based instruction. In addition, the program has established quality improvement measures to assure that educational competencies have been met.

This nursing program embraces three major concepts to provide an organizational framework for the curriculum. The major concepts are: The Systems Developmental Stress Model, The Nursing Process, and Erickson’s Psycho-Social Theory of Human Development. In addition, the concept of an illness-wellness continuum provides opportunities for the nurse to intervene along this continuum for therapeutic purposes. Conceptual threads are integrated throughout the curriculum and provide theory necessary to carry out roles of the nurse. These threads include development from conception through death, personal hygiene, human sexuality, pharmacology, teaching-learning, nutrition, cultural diversity, gerontology, leadership and professional development, legal, ethical, social and psychological concerns.

The conceptual threads that are interlaced throughout the program are the essential core components and competencies. These competencies include: professional behaviors, assessment, communication, clinical decision-making, caring interventions, teaching and learning, collaboration and managing care, critical thinking, safety, legalities, ethics, fiscal responsibility, diversity, evidence-based practice, self reflection, informatics and mathematics, aging nutrition. 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 hospital-based care to care in transitional units and other health care settings in the community.

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 center. 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’ 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.
NURSING PROGRAM OVERVIEW CONTINUED

Associate Degree Nursing

ADN Program Outcomes
At the completion of the program, the graduate will meet the following outcomes while carrying out the roles of the nurse:

PLANNER AND PROVIDER OF CARE
1. Uses the Systems Developmental Stress Model as a framework for practice and as a conceptual approach when applying the nursing process.
2. Use critical thinking and evidence-based practice when applying the nursing process to the development of the plan of care.
3. Plans and implements care throughout the development stages.
4. Plan, implement and evaluate care based on the individual needs of clients from our culturally diverse society.
5. Recognizes and appreciates the value of cultural diversity of the client and other health care team members.
6. Uses the nursing process to provide outcome-based care with judicious use of time and resources.
7. Provides and directs quality patient care using effective leadership and management skills.
8. Assess the needs for referral and use of resource personnel in the acute care settings.

PROVIDER OF SAFETY
1. Initiate and delegate others to provide a safe physical and emotional environment for a group of patients.
2. Plan, implement and evaluate care for a group of patients based on the biological, interpersonal, intrapersonal and developmental needs of the client.
3. Plan and implement care using guidelines for standard precautions & transmission-based precautions as well as the National Patient Safety Goals.

COMMUNICATOR
1. Utilize effective communication skills in collecting data related to biological, intrapersonal, interpersonal and developmental strengths and weaknesses.
2. Communicate effectively with the patient, patient’s family, and members of the health care team as the plan of care is developed and implemented.
3. Document accurately and in a timely manner, utilizing current technology.

CLIENT TEACHER
1. Assess, develop, and implement a teaching plan which is specific to the level of development, knowledge and their family.
2. Effectively implement formal and informal methods of teaching.

MEMBER OF THE PROFESSION
1. Is accountable for his/her own nursing practice including moral, ethical and legal concerns.
2. Demonstrates a caring attitude and concern for the welfare and quality of life of patient, while acting as the patient’s advocate.
3. Is able to adapt to changes in health care delivery.

ASSOCIATE DEGREE NURSING PROGRAM (RN) – GENERIC

Determination of Eligibility for Admission to the 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; or 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 Rio Hondo College.
   c. Overall GPA in the core science prerequisites of at least a 2.5 (anatomy, physiology, microbiology) 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.
   d. A cumulative grade point average (GPA) of at least 2.5 for all college coursework taken.
   e. All science courses must be a minimum of four units with a lab component.
   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.
   g. Once accepted students are required to obtain Los Angeles City Fire Card.
   h. Students must pass a diagnostic assessment test (basic math, English, reading, science) prior to program enrollment. Students who fail to achieve a passing score will be required to complete additional pre-nursing coursework.
   i. Only the 1st ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location the 1st score will be accepted and must be a passing score to be eligible.

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. 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.
NURSING PROGRAM OVERVIEW

CONTINUED

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. The Associate Degree Nursing Program accepts entry once a year October 1 for Spring admission and March 1 for Summer admission.
4. Please bring one official copy of your high school transcripts, diploma or GED. Official transcripts for college coursework completed to date should be sent to Rio 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 send the documentation, as well as official international transcripts, to Rio 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 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 Results after acceptance

Students will be selected on the basis of overall scores those having the most points. 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 1st 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 be admitted to the program in the fall semester.

Students who are applying for the ADN 151 course must have an application on file in the Health Science and Nursing Division Office by October 1 for Spring admission and March 1 for Summer admission. Students will be notified of permission to register in writing.

D. APPEAL PROCEDURE
An applicant who is denied admission may:
1. Appeal in writing to the Dean of Health Science and Nursing within ten days.
2. If the Dean of Health Science and Nursing denies the appeal, the student may appeal to the Executive Vice President of Academic Affairs.
3. In the event that the above steps do not result in satisfaction to the applicant, the applicant may initiate a grievance through the grievance policy adopted by the Board of Trustees.

E. 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.

F. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID – Rio 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 Rio 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.

G. PATIENT SAFETY AND BACKGROUND CHECKS – Based on national guidelines from the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) 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 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.

H. 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.

I. 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 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 Rio 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. Students who have completed two nursing courses with grades below a “C” are ineligible for transfer into the Rio Hondo ADN Program.

Above information subject to change

PSYCHIATRIC TECHNICIAN TO (RN) ASSOCIATE DEGREE NURSING

Determination of Eligibility for Admission to the 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; or 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. Active California Psychiatric Technician License.
   c. Students must meet the admission requirements for Rio Hondo College.
   d. Overall GPA in the core science prerequisites of at least 2.5 (anatomy, physiology, microbiology) 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.
   e. A cumulative grade point average (GPA) of at least 2.5 for all college coursework taken.
   f. All science courses must be a minimum of four units with a lab component. All core science prerequisite.
   g. 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.
   h. Once accepted students are required to obtain a Los Angeles City Fire Card.
   i. Students must pass a diagnostic assessment test (basic math, English, reading, science) prior to program enrollment. Students who fail to achieve a passing score will be required to complete additional pre-nursing coursework.
   j. Only the 1st ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location the 1st score will be accepted and must be a passing score to be eligible.

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. 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 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 & Nursing Office for admission consideration, when all the educational requirements are met.
3. The Associate Degree Nursing Program has once a year entry October 1 for Spring admission and March 1 for Summer admission.
4. Please bring one official copy of your high school transcripts, diploma, or GED. Official transcripts for college coursework completed to date should be sent to Rio Hondo College Admissions and Records Office.
NURSING PROGRAM OVERVIEW
CONTINUED

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 send the documentation, as well as official international transcripts, to Rio Hondo College Admissions and Records Office. The international evaluation of college coursework should be a detailed report.

C. ADMISSION PROCESS – Acceptance to the all nursing programs 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.

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 1st 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 be admitted to the program in the fall semester.

Students who are applying for the ADN 151 course must have an application and documentation of course work on file in the Health Science and Nursing Division Office by October 1 for Spring admission and March 1 for Summer admission. Students will be notified of permission to register in writing.

D. APPEAL PROCEDURE
An applicant who is denied admission may:
1. Appeal in writing to the Dean of Health Science and Nursing within ten days.
2. If the Dean of Health Science and Nursing denies the appeal, the student may appeal to the Executive Vice President of Academic Affairs.
3. In the event that the above steps do not result in satisfaction to the applicant, the applicant may initiate a grievance through the grievance policy adopted by the Board of Trustees.

E. 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.

F. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID – Rio 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 Rio 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.

G. PATIENT SAFETY AND BACKGROUND CHECKS – Based on national guidelines from the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) 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 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.
NURSING PROGRAM OVERVIEW
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H. 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.

I. 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 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 into the Rio 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. Students who have completed two nursing courses with grades below a “C” are ineligible for transfer into the Rio Hondo ADN Program.

Above information subject to change.

ASSOCIATE DEGREE
NURSING PROGRAM – LVN TO ADN

Determination of Eligibility for Admission to the 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; or 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 Rio Hondo College.
   c. Active California Vocational Nurse license submitted to the Health Science and Nursing Division Office by October 1.
   d. Overall GPA in the core science prerequisites of at least 2.5 (anatomy, physiology, and microbiology) 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.
   e. A cumulative grade point average (GPA) of at least 2.5 for all college coursework taken.
   f. All science courses must be a minimum of four units with a lab component.
   g. ADN 075 LVN Transition into the Associate Degree Nursing Program with a minimum grade of C.
   h. 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.
   i. Once accepted students are required to obtain a Los Angeles City Fire Card.
   j. Students must pass a diagnostic assessment test (basic math, English, reading, science) prior to program enrollment. Students who fail to achieve a passing score will be required to complete additional pre-nursing coursework.
   k. Only the 1st ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location the 1st score will be accepted and must be a passing score to be eligible.

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. 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.

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 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 offered in the fall semester (ADN 251) and is offered in the summer session 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 in the Fall semester.
NURSING PROGRAM OVERVIEW

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D. APPEAL PROCEDURE

An applicant who is denied admission may:
1. Appeal in writing to the Dean of Health Science and Nursing within ten days.
2. If the Dean of Health Science and Nursing denies the appeal, the student may appeal to the Academic Affairs Office.
3. In the event that the above steps do not result in satisfaction to the applicant, the applicant may initiate a grievance through the grievance policy adopted by the Board of Trustees.

E. EXPENSES

Uniforms, books, health and safety screenings, and miscellaneous expenses will vary according to distributors and Medial providers. Cost per units will depend on College fees. Please see the College Fee Schedule for more information. Students are responsible for providing their own transportation to clinical facilities.

F. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID

Rio Hondo College participates in a variety of federal and state financial aid programs. These programs are designed to assist students with tuition, fees, and supplies. Scholarships are funded and sponsored by a variety of on and off campus resources, including community partner organizations (JCAHO) and clinical facility policies. Nursing students must demonstrate competence in clinical setting. Students who are deemed unsafe in clinical safety. Students who are deemed unsafe in clinical setting. Students who are deemed unsafe in clinical setting. Students who are deemed unsafe in clinical setting.

G. PATIENT SAFETY AND BACKGROUND CHECKS

Based on national guidelines from the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) 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 upon admission. The student is responsible for the cost of the background check. If the background check is not clear, 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.

H. 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. The Board of Registered Nursing can be reached at 916-322-3350.

I. 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 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 Rio 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.

Students who have completed two nursing courses with grades below a “C” are ineligible for transfer into the Rio Hondo ADN Program.

Above information subject to change.

ASSOCIATE DEGREE NURSING PROGRAM – 30 UNIT OPTION LVN TO RN

Determination of Eligibility for Admission to the 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; or 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 Rio Hondo College.
NURSING PROGRAM OVERVIEW

Continued

c. GPA of 2.5 or above in Health Science and Nursing Core (060), or equivalent, and Psychology 101 by October 1.
d. Completion of Reading 023, ENGL 035, Math 030, or equivalent, with a grade “C” or better or exemption through assessment testing.
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. Effective Spring 2008, students must take a diagnostic assessment test (Math, English, Reading, and Science) prior to program enrollment. Students who fail to achieve a passing score will be required to complete additional pre-nursing coursework.
g. ADN 075 LVN Transition into the Associate Degree Nursing Program with a minimum grade of C.
h. 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.
i. Once accepted students are required to obtain a Los Angeles City Fire Card.
j. Students must pass a diagnostic assessment test (basic math, English, reading, science) prior to program enrollment. Students who fail to achieve a passing score will be required to complete additional pre-nursing coursework.
k. 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.

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. 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 30 Unit Option LVN to RN 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. The 30 Unit Option LVN to RN Program has once a year entry each Spring semester.
4. The 30 Unit Option Program has once a year entry each spring semester. Please bring one official copy of your high school transcripts, diploma, or GED. Official transcripts for college coursework completed to date should be sent to Rio 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 the Counseling Department. The international evaluation of college course work should be a detailed report.

C. ADMISSION PROCESS – 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 (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 offered in the fall semester (ADN 251) and is offered in the summer session 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 in the

D. APPEAL PROCEDURE

An applicant who is denied admission may:
1. Appeal writing to the Dean of Health Science and Nursing within ten days.
2. If the Dean of Health Science and Nursing denies the appeal, the student may appeal to the Executive Vice President of Academic Affairs.
3. In the event that the above steps do not result in satisfaction to the applicant, the applicant may initiate a grievance through the grievance policy adopted by the Board of Trustees.

E. 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.
NURSING PROGRAM OVERVIEW
CONTINUED

F. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID – Rio 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 Rio 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.

G. PATIENT SAFETY AND BACKGROUND CHECKS – Based on national guidelines from the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) 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 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.

H. 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.

I. TRANSFER STUDENTS – All transfer students who have taken coursework in nursing at another educational institution must be evaluated for equivalency in their coursework. Rio Hondo College recognizes the validity of academic work completed at other schools and awards credits based on a course-by-course evaluation. Veterans who have taken courses to satisfy prerequisites for admission to the nursing program should consult the academic advisor to determine equivalency. Previous coursework will only be considered for potential transfer if the student has a cumulative grade point average of at least 2.5. The student must present a letter from the director of the former 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 Rio 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. Students who have completed two nursing courses with grades below a “C” are ineligible for transfer into the Rio Hondo ADN Program.

Above information subject to change.

VOCATIONAL NURSING PROGRAM

The Vocational Nursing Program is a two-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 Rio 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 PROGRAM OVERVIEW
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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 responsibilities 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; or 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 Rio Hondo College.
   c. GPA of 2.5 or above in Health Science and Nursing Core 060, or equivalent, and Psychology 101 by October 1.
   d. Completion of READ 023, ENGL 035, MATH 030, 030D or 033 or equivalent, with a grade “C” or better or exemption through assessment testing.
   e. Current CPR Card- (BLS 8-hour class for health care providers, all ages, 1-person, 2-person rescurer) provided by the American Heart Association will be required after admission.
   f. Effective Spring 2008, students must take a diagnostic assessment test (Math, English, Reading, and Science) prior to program enrollment. Students who fail to achieve a passing score will be required to complete additional pre-nursing coursework.

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 each Fall semester.
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 course work should be a detailed report.
5. All applicants will be notified in writing regarding acceptance.

C. ADMISSION PROCESS – Acceptance to the Vocational Nursing Program for the class beginning in Fall 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 Health Science and Nursing Core 060 or equivalent, and PSY 101, completion of college ENGL 035, READ 023, and MATH 020 or 020C or exemption through assessment testing, will be used to determine the student’s eligibility. Students who have at least a GPA of 2.5 in the Health Science and Nursing Core 060, or equivalent, and PSY 101, with no grade less than “C” for each course, and completed ENGL 035, READ 023, and MATH 020 or 020C or equivalent, with a grade of “C” or better, or exemption through assessment testing, will be considered eligible for admission. Each class selection will be completed using the above process. Student will be notified by the Health Science and Nursing Division of permission to register in writing.

D. APPEAL PROCEDURE – An applicant who is denied admission may:
1. Appeal in writing to the Dean of Health Science and Nursing within ten days.
2. If the Dean of Health Science and Nursing denies the appeal, the student may appeal to the Executive Vice President of Academic Affairs.
3. In the event that the above steps do not result in satisfaction to the applicant, the applicant may initiate a grievance through the grievance policy adopted by the Board of Trustees.
E. 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.

F. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL – Rio 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 Rio 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.

G. PATIENT SAFETY AND BACKGROUND CHECKS – Based on national guidelines from the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) 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 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.

H. 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.

I. 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 Rio Hondo Vocational Nursing Program.

Above information subject to change.

Revised July 2014
NURSING
DIVISION OF HEALTH SCIENCE & NURSING

CAREER CERTIFICATE

Certified Nurse Assistant Acute Care

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 051</td>
<td>1.5</td>
</tr>
<tr>
<td>HS 051L</td>
<td>1</td>
</tr>
</tbody>
</table>

Units Required: 2.5

*Prerequisite

CAREER CERTIFICATE

Nurse Assistant Pre-Certification Training Course

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.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 050 Nurse Assistant Pre-Certification Training Course</td>
<td>4</td>
</tr>
<tr>
<td>HS 050L Nurse Assistant Pre-Certification Training Course Lab</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Units Required: 6.5

*Prerequisite

CAREER CERTIFICATE

Home Health Aide

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.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 052 Home Health Aide Training Course</td>
<td>1.5</td>
</tr>
<tr>
<td>HS 052L Home Health Aide Training Course Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Units Required: 2.5

*Prerequisite
Generic Student

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.

Prerequisites / Corequisites Units
*BIOI 125 Human Anatomy ..................4
*BIOI 226 Human Physiology** ..............4
*BIOI 222 Microbiology** ......................5
*ENGL 101 College Composition and Research ................3.5
16.5

*ADN 151 Clinical Nursing Concepts ..............2
*ADN 151L Clinical Nursing Concepts Lab ..........2

Offered only Spring or Summer semesters. Permit to register given only to students admitted to the program.

**CHEM 110 is a prerequisite to BIOI 222 and BIOI 226 and meets the AS degree requirement for a natural science with lab.

Other Required Courses Units
MATH 070 or Intermediate Algebra or 4
070D or 073 appropriate assessment
READ 023 Reading College Textbooks or 3
appropriate assessment
(Reading proficiency required for graduation)

*SOC 101 or Introduction to Sociology ..........3
SOC 101H
*SPCH 101 Public Address or equivalent .......3
SPCH 101H
*PSY 101 or Introductory Psychology ..........3
PSY 101H

AMERICAN INSTITUTIONS
(One Course) ..................................3
FINE ARTS (One Course) .......................3
HUMANITIES (One Course) ......................3
KINESIOLOGY (2 Activity Courses) .............2
27

Students need 27 units in this section, a total of 7 units may be earned by proficiency testing.

(Courtesy Health Science and Nursing Division recommends that students complete as many courses as possible before admission to the ADN Program, especially MATH 070 or 070D or 073 and READ 023, or equivalent.)

COURSES REQUIRED AFTER ENROLLMENT
BY PERMIT ONLY

FIRST YEAR-FALL SEMESTER UNITS
*ADN 150 Medical/Surgical Nursing I ..........4
*ADN 150L Medical/Surgical Nursing I Lab ....4
*ADN 154 Pharmacology .......................2

10

FIRST YEAR-SPRING SEMESTER UNITS
*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

8

SECOND YEAR-FALL SEMESTER UNITS
*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

9

SECOND YEAR-SPRING SEMESTER UNITS
*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

9

Total Units 83.5-84.5

*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.
ASSOCIATE OF SCIENCE DEGREE

LVN to ADN (OPTION #1)

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.

Prerequisites / Corequisites

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 075</td>
<td>LVN Transition into the Associate Degree Nursing Program</td>
<td>2.5</td>
</tr>
</tbody>
</table>

By permission of the program after admission.

HS 045 Math for Health Professionals (optional elective for 1 unit)

- Offered Summer session only

**CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.

Other Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 070 or 070D or 073</td>
<td>Intermediate Algebra or appropriate assessment</td>
<td>4</td>
</tr>
<tr>
<td>READ 023*</td>
<td>Reading College Textbooks or appropriate assessment</td>
<td>3</td>
</tr>
<tr>
<td>*SOC 101 or SOC 101H</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>*SPCH 101</td>
<td>Public Address or equivalent</td>
<td>3</td>
</tr>
<tr>
<td>*PSY 101 or PSY 101H</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

AMERICAN INSTITUTIONS (One Course)

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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</tbody>
</table>

FINES ARTS (One Course)

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

HUMANITIES (One Course)

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

KINESIOLOGY (2 Activity Courses)

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

Students need 27 units in this section, a total of 7 units may be earned by proficiency testing.

(The Health Science and Nursing Division recommends that students complete as many courses as possible before admission to the ADN Program, especially MATH 070 or 070D or 073 and READ 023, or equivalent.)

COURSES REQUIRED AFTER PROGRAM ADMISSION-BY PERMIT ONLY

FALL SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 250</td>
<td>Advanced Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>*ADN 251</td>
<td>Medical Surgical Nursing I</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 251L</td>
<td>Medical Surgical Nursing II Lab</td>
<td>2.5</td>
</tr>
<tr>
<td>*ADN 252</td>
<td>Psychiatric/Mental Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 252L</td>
<td>Psychiatric/Mental Health Nursing Lab</td>
<td>1.5</td>
</tr>
</tbody>
</table>

SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 253</td>
<td>Medical Surgical Nursing III</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 253L</td>
<td>Medical Surgical Nursing III Lab</td>
<td>3</td>
</tr>
<tr>
<td>*ADN 254</td>
<td>Leadership and Management in Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td>*ADN 254L</td>
<td>Leadership and Management in Nursing Lab</td>
<td>2.5</td>
</tr>
</tbody>
</table>

*Course required by BRN to sit for licensing exam. All of these courses must be completed with a grade of “C” or better.

LICENSED VOCATIONAL NON-DEGREE-30 UNIT OPTION (OPTION #2) 30 Unit Option LVN to RN

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*BIOL 226</td>
<td>Human Physiology**</td>
<td>4</td>
</tr>
<tr>
<td>*BIOL 222</td>
<td>Microbiology**</td>
<td>5</td>
</tr>
<tr>
<td>*ADN 075</td>
<td>LVN Transition into the Associate Degree Nursing Program</td>
<td>2.5</td>
</tr>
</tbody>
</table>

HS 045 Math for Health Professionals (optional elective for 1 unit)

Admission by permission of the Health Science and Nursing Division-Summer session only.

**CHEM 110 is a prerequisite to BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.
COURSES REQUIRED AFTER PROGRAM
ADMISSION-BY PERMIT ONLY

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 250</td>
<td>Advanced Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>*ADN 251</td>
<td>Medical Surgical Nursing II</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 251L</td>
<td>Medical Surgical Nursing II Lab</td>
<td>2.5</td>
</tr>
<tr>
<td>*ADN 252</td>
<td>Psychiatric/Mental Health Nursing</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 252L</td>
<td>Psychiatric/Mental Health Nursing Lab</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>9</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 253</td>
<td>Medical Surgical Nursing III</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 253L</td>
<td>Medical Surgical Nursing III Lab</td>
<td>3</td>
</tr>
<tr>
<td>*ADN 254</td>
<td>Leadership and Management in Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td>*ADN 254L</td>
<td>Leadership and Management in Nursing Lab</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Total Units 29.5**

*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.*
ASSOCIATE OF SCIENCE DEGREE

Psychiatric Technician to RN
Associate Degree Nursing

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. Current California psychiatric technician license required.

**Prerequisites/Corequisites**

<table>
<thead>
<tr>
<th>*</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>BIOL 125</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>*</td>
<td>BIOL 226</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>*</td>
<td>BIOL 222</td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>*</td>
<td>ENGL 101</td>
<td>College Composition and Research</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**Other Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 151</td>
<td>Clinical Nursing Concepts</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 151L</td>
<td>Clinical Nursing Concepts Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

-Offered only Spring or Summer semester. Permit to register given only to students admitted to the program. This course may be waived by testing.

**Total Units** 16.5

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**COURSES REQUIRED AFTER ENROLLMENT BY PERMIT ONLY**

**FIRST YEAR-FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>*ADN 150</td>
<td>Medical/Surgical Nursing I</td>
<td>4</td>
</tr>
<tr>
<td>*ADN 150L</td>
<td>Medical/Surgical Nursing I Lab</td>
<td>4</td>
</tr>
<tr>
<td>*ADN 154</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>HS 045</td>
<td>Math for Health Professionals (optional elective for 1 unit)</td>
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**FIRST YEAR-SPRING SEMESTER**

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>*ADN 155</td>
<td>Nursing Process: Childbearing Family/Women's Health</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 155L</td>
<td>Nursing Process: Childbearing Family/Women's Health Lab</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 156</td>
<td>Nursing Process Applied to the Care of Children</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 156L</td>
<td>Nursing Process Applied to the Care of Children Lab</td>
<td>2</td>
</tr>
</tbody>
</table>

**SECOND YEAR-FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 250</td>
<td>Advanced Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>*ADN 251</td>
<td>Medical Surgical Nursing II</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 251L</td>
<td>Medical Surgical Nursing II Lab</td>
<td>2.5</td>
</tr>
<tr>
<td>*ADN 252</td>
<td>Psychiatric/Mental Health in Nursing</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 252L</td>
<td>Psychiatric/Mental Health in Nursing Lab</td>
<td>1.5</td>
</tr>
</tbody>
</table>

(waiver with active psych tech license)

**SECOND YEAR-SPRING SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ADN 253</td>
<td>Medical Surgical Nursing III</td>
<td>2</td>
</tr>
<tr>
<td>*ADN 253L</td>
<td>Medical Surgical Nursing III Lab</td>
<td>3</td>
</tr>
<tr>
<td>*ADN 254</td>
<td>Leadership and Management in Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td>*ADN 254L</td>
<td>Leadership and Management in Nursing Lab</td>
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</tr>
</tbody>
</table>

**Total Units** 80 - 83.5

*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.

(The Health Science and Nursing Division recommends that students complete as many courses as possible before admission to the ADN Program, especially MATH 070 or 070D or 073 and READ 023, or equivalent.)
The Vocational Nursing Program is a two-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.

### Academic Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 030 or</td>
<td>Prealgebra or appropriate assessment</td>
<td>4</td>
</tr>
<tr>
<td>030D or 033</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 035</td>
<td>Intermediate Composition for Developing Writers or appropriate assessment</td>
<td>3</td>
</tr>
<tr>
<td>READ 023</td>
<td>Reading College Textbooks or appropriate assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

Students need 9 units in this section, or may be earned by proficiency testing.

### Prerequisites:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 060</td>
<td>Health Science Core</td>
<td>5</td>
</tr>
<tr>
<td>PSY 101 or</td>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101H</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VN 061</td>
<td>Basic Fundamentals of Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>VN 061L</td>
<td>Basic Fundamentals of Nursing Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

HS 045 Math for Health Professionals

(1 optional elective for 1 unit)

VN 061 and 061L are offered in the spring semester only by permit.

### FALL SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN 071L</td>
<td>Introduction to Medical-Surgical Nursing Lab</td>
<td>3.5</td>
</tr>
<tr>
<td>VN 072L</td>
<td>Intermediate Medical-Surgical Nursing Lab</td>
<td>3.5</td>
</tr>
<tr>
<td>VN 073</td>
<td>Basic Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>VN 074</td>
<td>Older Adult and Integumentary/Orthopedic Nursing Problems</td>
<td>2.5</td>
</tr>
<tr>
<td>VN 075</td>
<td>Endocrine Nursing Problems</td>
<td>1</td>
</tr>
<tr>
<td>VN 076</td>
<td>Gastrointestinal and Renal Nursing Problems</td>
<td>3.5</td>
</tr>
<tr>
<td>VN 077</td>
<td>Cardiovascular &amp; Respiratory Nursing Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

### SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN 081L</td>
<td>Maternal and Pediatric Nursing Lab</td>
<td>2.5</td>
</tr>
<tr>
<td>VN 082L</td>
<td>Advanced Medical/Surgical Nursing Lab</td>
<td>3.5</td>
</tr>
<tr>
<td>VN 083</td>
<td>Applied Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>VN 084</td>
<td>Maternal &amp; Pediatric Nursing</td>
<td>4</td>
</tr>
<tr>
<td>VN 085</td>
<td>Leadership &amp; Supervision for Vocational Nursing</td>
<td>5</td>
</tr>
<tr>
<td>VN 086</td>
<td>Mental Health &amp; Neurological Nursing Problems</td>
<td>3</td>
</tr>
<tr>
<td>VN 087</td>
<td>Cancer Nursing Problems</td>
<td>1</td>
</tr>
</tbody>
</table>

Total program units 62

*Prerequisite

See Nursing Program Overview appendix pages - for Philosophy, Admissions Requirements and Admissions Procedures.
The Associate of Arts Degree in Philosophy is designed to provide a broad introduction to philosophy for those interested in building a foundation for an eventual Bachelor’s Degree in Philosophy from a four-year college or university, or for those seeking a structured exploration of philosophy for other reasons.

To acquire the Associate of Arts Degree in Philosophy, it is necessary to complete the graduation requirements of the College along with the following courses with a grade of “C” or better:

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 101 or PHIL 101H</td>
<td>Introduction to Philosophy *Honors</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 112</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 120</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 124</td>
<td>History of Philosophy: Ancient</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 126</td>
<td>History of Philosophy: Modern</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 3 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 110</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 128/ POLS 128</td>
<td>Introduction to Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 135</td>
<td>Philosophy and Contemporary Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 140</td>
<td>Philosophy of Religion</td>
<td>3</td>
</tr>
</tbody>
</table>

Units Required 18

*Prerequisite
ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER

The Associate in Arts in Philosophy for Transfer (AA-T) Degree is intended to meet the lower division requirements for Philosophy majors (or similar majors) at a CSU campus that offers a Philosophy baccalaureate degree. It will provide 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 additional requirements must be met for completion of the AA-T Degree in Philosophy:

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 18 semester units in the major with a grade of “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 Philosophy major at the CSU where they seek transfer. Students who are planning on transferring to a CSU are strongly advised to take PHIL 115—Symbolic Logic to prepare for further study.

### Required Courses (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 112 or</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 115</td>
<td>Symbolic Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 101 or</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 101H</td>
<td>*Introduction to Philosophy Honors</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 120</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one course (3 units) from the following list (A):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 124</td>
<td>History of Philosophy: Ancient</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 126</td>
<td>History of Philosophy: Modern</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two courses (6 units) from the following list (B):

- ECON 102 or  *Principles of Microeconomics or ECON 102H  *Principles of Microeconomics Honors | 3
- PHIL 110  *Critical Thinking | 3
- PHIL 140  Philosophy of Religion | 3

Choose one course (3 units) from the following list (C):

- PHIL 128/ POLS 128  Introduction to Political Philosophy | 3
- PHIL 135  Philosophy and Contemporary Issues | 3

**OR**

Any course not selected from List A or List B

Required Subtotal ......................................................18

CSU GE or IGETC Pattern ........................................... Varies

Transferable Electives (as needed to reach 60 transferable units)

### Degree Total 60

*Prerequisite
PHOTOGRAPHY
DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree provides students preparing to transfer with a thorough technical knowledge of contemporary photographic equipment and applications. Students also become familiar with basic filmmaking and videography techniques including digital image capture and scanning as well as use of conventional materials. Students interested in photography as visual expression will also benefit.

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 Science Degree in Photography, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 105 or ART 105H*</td>
<td>Survey of Western Art: Prehistory through the Middle Ages</td>
</tr>
<tr>
<td>ART 106 or ART 106H*</td>
<td>Survey of Western Art: Renaissance to Contemporary</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two Dimensional Design</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three Dimensional Design</td>
</tr>
<tr>
<td>ART 130</td>
<td>Freehand Drawing I</td>
</tr>
<tr>
<td>ART 178</td>
<td>Introduction to Digital Imaging (Adobe Photoshop)</td>
</tr>
<tr>
<td>PHTO 190</td>
<td>Beginning Photography</td>
</tr>
<tr>
<td>PHTO 191</td>
<td>*Intermediate Photography</td>
</tr>
<tr>
<td>PHTO 290</td>
<td>*Medium and Large Format Photography</td>
</tr>
<tr>
<td>PHTO 292</td>
<td>*Digital Photography</td>
</tr>
</tbody>
</table>

Units Required 29

*Prerequisite
ASSOCIATE IN SCIENCE IN PHYSICS FOR TRANSFER

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 additional requirements must be met for completion of the AS-T Degree in Physics:

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 24 semester 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 Physics major at the CSU where they seek transfer.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 211</td>
<td>4</td>
</tr>
<tr>
<td>PHY 212</td>
<td>4</td>
</tr>
<tr>
<td>PHY 213</td>
<td>4</td>
</tr>
<tr>
<td>MATH 190 or MATH 190H</td>
<td>4</td>
</tr>
<tr>
<td>MATH 191</td>
<td>4</td>
</tr>
<tr>
<td>MATH 250</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Subtotal ………………………………………..24

CSU GE or IGETC Pattern ……………………………… Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite
**CAREER CERTIFICATE**

*Basic Police Training (Open to all students)*

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.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC 040 or *Basic Police Recruit Class</td>
<td>24</td>
</tr>
<tr>
<td>PAC 075 B, C, and D *Basic Police Recruit Classes (Level III-I)</td>
<td>22</td>
</tr>
</tbody>
</table>

*Prerequisite*
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 additional 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 18-19 semester units in the major with a grade of “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.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 110 or</td>
<td></td>
</tr>
<tr>
<td>POLS 110H</td>
<td>American Government</td>
</tr>
<tr>
<td>Choose at least nine units from the following list:</td>
<td></td>
</tr>
<tr>
<td>POLS 128/PHIL 128</td>
<td>Introduction to Political Philosophy...3</td>
</tr>
<tr>
<td>POLS 130</td>
<td>Comparative Government...3</td>
</tr>
<tr>
<td>POLS 140</td>
<td>International Relations...3</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H or PSY 190</td>
<td>Statistics</td>
</tr>
<tr>
<td>*Statistics Honors ...4</td>
<td></td>
</tr>
<tr>
<td>*Statistics for the Behavioral Sciences...4</td>
<td></td>
</tr>
</tbody>
</table>

Choose six units from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 101 or ECON 101H</td>
<td>*Principles of Macroeconomics Honors...3</td>
</tr>
<tr>
<td>ECON 102 or ECON 102H</td>
<td>*Principles of Microeconomics Honors...3</td>
</tr>
<tr>
<td>ECON 106</td>
<td>Economics of Contemporary Issues...3</td>
</tr>
<tr>
<td>HIST 143 or HIST 143H</td>
<td>*History of the United States to 1877 Honors...3</td>
</tr>
<tr>
<td>HIST 144 or HIST 144H</td>
<td>*History of the United States Since 1865</td>
</tr>
<tr>
<td>HIST 158</td>
<td>History of Minorities: African Americans and American Indians...3</td>
</tr>
<tr>
<td>HIST 159 or</td>
<td>History of Minorities: Mexican Americans, Asian Americans, and American Women...3</td>
</tr>
<tr>
<td>HIST 159H</td>
<td>*History of Minorities: Mexican Americans, Asian Americans, and American Women Honors...3</td>
</tr>
<tr>
<td>HIST 170</td>
<td>Women in American History...3</td>
</tr>
<tr>
<td>POLS 135/CHST 150</td>
<td>International Political Economy...3</td>
</tr>
<tr>
<td>ECON 135</td>
<td>Chicano Politics...3</td>
</tr>
</tbody>
</table>

Required Subtotal: 18-19

CSU GE or IGETC Pattern: Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total: 60 units

*Prerequisite
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 additional 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 19 semester units in the major with a grade of “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.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101 or PSY 101H</td>
<td>Introductory Psychology Honors 3</td>
</tr>
<tr>
<td>PSY 200</td>
<td>*Research Methods in Psychology 3</td>
</tr>
<tr>
<td>PSY 210 or PSY 210H</td>
<td>*Biological Psychology Honors 3</td>
</tr>
</tbody>
</table>

*(choose one statistics course)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 130 or MATH 130H or PSY 190</td>
<td>*Statistics Honors 4</td>
</tr>
<tr>
<td></td>
<td>*Statistics for the Behavioral Science 4</td>
</tr>
</tbody>
</table>

Choose one course from the following list:

- PHIL 110: *Critical Thinking 3*
- PSY 112: Lifespan Development 3
- SOC 101 or SOC 101H: *Introduction to Sociology Honors 3*
- PHIL 101 or PHIL 101H: *Introduction to Philosophy Honors 3*
- PSY 114: Abnormal Psychology 3
- PSY 170: Introduction to Learning and Memory 3
- PSY 180: Positive Psychology 3
- SOC 102: Social Problems 3

Required Subtotal 19

CSU GE or IGETC Pattern Varies

Transferable Electives *(as needed to reach 60 transferable units)*

Degree Total 60

*Prerequisite*

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.
## Retail Management

**Division of Business**

### Certificate of Achievement

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.

To acquire the Certificate of Achievement in Retail Management, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>3</td>
</tr>
<tr>
<td>CIT 102</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 152</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 109</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101 or SPCH 101H</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required** 25

### Associate of Science Degree

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 various 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/Entrepreneurialism, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>4</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 152</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 109</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101 or SPCH 101H</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required** 25

---

## Small Business/Entrepreneurialism

**Division of Business**

### Certificate of Achievement

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 various 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/Entrepreneurialism, it is necessary to complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>4</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 152</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 109</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101 or SPCH 101H</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required** 25

---

### Associate of Science Degree

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 various 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/Entrepreneurialism, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 101</td>
<td>4</td>
</tr>
<tr>
<td>BUSL 110</td>
<td>3</td>
</tr>
<tr>
<td>CIT 101</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 152</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 109</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 170</td>
<td>3</td>
</tr>
</tbody>
</table>

**Units Required** 25
ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER

Required Courses

<table>
<thead>
<tr>
<th>Course(s)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 101 or SOC 101H</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td></td>
<td>*Introduction to Sociology Honors</td>
</tr>
<tr>
<td>Any TWO courses from the following list:</td>
<td></td>
</tr>
<tr>
<td>SOC 102</td>
<td>Major Social Problems</td>
</tr>
<tr>
<td>PSY 200</td>
<td>*Research Methods in Psychology</td>
</tr>
<tr>
<td>MATH 130 or MATH 130H or</td>
<td>*Statistics</td>
</tr>
<tr>
<td>PSY 190</td>
<td>*Statistics Honors</td>
</tr>
<tr>
<td></td>
<td>for the Behavioral Sciences</td>
</tr>
</tbody>
</table>

CSU GE or IGETC Pattern Varies

Required Subtotal 18-20

Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

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 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 desire a broad understanding of Sociology and the social world.

In addition to the courses listed below, the following additional requirements must be met for completion of the Associate in Arts in Sociology for Transfer Degree:

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 18-20 semester units in the major with a grade of “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.
SPANISH
DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN SPANISH FOR TRANSFER

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 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 AA-T Degree in Spanish:

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 19 - 20 semester units in the major with a grade of “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 (or similar majors) at the CSU where they seek transfer.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 101 Spanish I ..................</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 102 *Spanish II ..............</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 201 or *Spanish III ..........</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 201H</td>
<td></td>
</tr>
<tr>
<td>SPAN 202 *Spanish IV ..............</td>
<td>4</td>
</tr>
</tbody>
</table>

Choose at least one course (3-4 units) from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 101</td>
<td>French I</td>
<td>4</td>
</tr>
<tr>
<td>FR 102</td>
<td>*French II</td>
<td>4</td>
</tr>
<tr>
<td>FR 201</td>
<td>*French III</td>
<td>4</td>
</tr>
<tr>
<td>FR 202</td>
<td>*French IV</td>
<td>4</td>
</tr>
<tr>
<td>HIST 122</td>
<td>History of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HUM 125 or</td>
<td>*Introduction to Mexican Culture/</td>
<td></td>
</tr>
<tr>
<td>HUM 125H</td>
<td>Honors</td>
<td>3</td>
</tr>
<tr>
<td>HUM 130</td>
<td>Contemporary Mexican-American</td>
<td></td>
</tr>
<tr>
<td>LIT 117</td>
<td>*Mexican Literature in Translation/</td>
<td></td>
</tr>
<tr>
<td>LIT 117H</td>
<td>Honors</td>
<td>3</td>
</tr>
<tr>
<td>LIT 149</td>
<td>Introduction to Chicano/Chicana</td>
<td>3</td>
</tr>
</tbody>
</table>

If a student is waived out of elementary level Spanish courses from the core, he/she may select courses not taken above or from the following list to meet the minimum 18 units required in the major (per Title 5 regulations):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 104</td>
<td>Art of the Ancient Americas</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>The Art of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 126</td>
<td>Languages of the World</td>
<td>3</td>
</tr>
<tr>
<td>MUS 129</td>
<td>Music in Latin American Culture</td>
<td>3</td>
</tr>
<tr>
<td>SFAN 130</td>
<td>*Spanish for Heritage Speakers I</td>
<td>3</td>
</tr>
<tr>
<td>SFAN 131</td>
<td>*Spanish for Heritage Speakers II</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Subtotal .............................................19 - 20

CSU GE or IGETC Pattern ..............................Varies
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite
STUDIO ARTS
DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN STUDIO ARTS FOR TRANSFER

The Associate in Arts in Studio Arts 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, or photography. 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 additional 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 24 semester units in the major with a grade of “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.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 106</td>
<td>Survey of Western Art: Renaissance to Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>ART 106H</td>
<td>Survey of Western Art: Renaissance to Contemporary Honors</td>
<td>3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Two Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 121</td>
<td>Three Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 130</td>
<td>Freehand Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 105</td>
<td>Survey of Western Art: Prehistory through the Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>ART 105H</td>
<td>Survey of Western Art: Prehistory through the Middle Ages Honors</td>
<td>3</td>
</tr>
<tr>
<td>ART 107</td>
<td>The Art of Asia</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>Art of Mexico</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one course, 3 units, from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 131</td>
<td>Freehand Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 136</td>
<td>Intermediate Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 141</td>
<td>Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 230</td>
<td>Beginning Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>Intermediate Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 235</td>
<td>Advanced Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 236</td>
<td>Advanced Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ART 242</td>
<td>Advanced Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>PHTO 190</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose three courses, 9 units, from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 131</td>
<td>Freehand Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ART 135</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 136</td>
<td>Intermediate Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 140</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 141</td>
<td>Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Beginning Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>ART 230</td>
<td>Beginning Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 231</td>
<td>Intermediate Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 235</td>
<td>Advanced Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 236</td>
<td>Advanced Painting II</td>
<td>3</td>
</tr>
<tr>
<td>ART 242</td>
<td>Advanced Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>PHTO 190</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Subtotal: 24 units

CSU GE or IGETC Pattern: Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total: 60 units

*Prerequisite

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.
THEATRE ARTS
DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN THEATRE ARTS FOR TRANSFER

The Associate in Arts in Theatre Arts 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 additional 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 18 semester units in the major with a grade of “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.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 101 or</td>
<td>Theatre Arts Appreciation .........................</td>
</tr>
<tr>
<td>THTR 105 or</td>
<td>The History &amp; Development of the Theatre (or “Honors”)</td>
</tr>
<tr>
<td>THTR 105H</td>
<td>Theatre (or “Honors”)</td>
</tr>
<tr>
<td>THTR 110</td>
<td>Principles of Acting ................................</td>
</tr>
<tr>
<td>THTR 159 or</td>
<td>Stage Crew Activity (must be taken for 3 units)</td>
</tr>
<tr>
<td>THTR 170</td>
<td>Theatre Rehearsal and Performance ..................</td>
</tr>
</tbody>
</table>

Choose 3 classes totaling 9 units from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 111</td>
<td>*Principles of Acting .............................</td>
</tr>
<tr>
<td>THTR 150</td>
<td>Theatre Crafts I ...................................</td>
</tr>
<tr>
<td>THTR 153</td>
<td>Stage Lighting .....................................</td>
</tr>
<tr>
<td>THTR 174</td>
<td>Introduction to Stage Costume .....................</td>
</tr>
</tbody>
</table>

If not used in Required Core:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 159 or</td>
<td>Stage Crew Activity (must be taken for 3 units)</td>
</tr>
<tr>
<td>THTR 170</td>
<td>Rehearsal and Performance ..........................</td>
</tr>
</tbody>
</table>

Required Subtotal .................................................. 18

CSU GE or IGETC Pattern ............................................. Varies

Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite
ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Theatre Arts**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 101</td>
<td>Theatre Arts Appreciation</td>
</tr>
<tr>
<td>THTR 105 or THTR 105H</td>
<td>History &amp; Development of the Theatre (or *Honors)</td>
</tr>
<tr>
<td>THTR 110</td>
<td>Principles of Acting</td>
</tr>
<tr>
<td>THTR 111</td>
<td>*Principles of Acting</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 150</td>
<td>Theatre Crafts I</td>
</tr>
<tr>
<td>THTR 151</td>
<td>Theatre Crafts II</td>
</tr>
<tr>
<td>THTR 170</td>
<td>Theatre Rehearsal &amp; Performance</td>
</tr>
<tr>
<td>THTR 230</td>
<td>*Principles of Directing</td>
</tr>
<tr>
<td>THTR 231</td>
<td>*Principles of Directing</td>
</tr>
</tbody>
</table>

*Prerequisite

Units Required 27

---

CERTIFICATE OF ACHIEVEMENT

**LADBS Structural Steel Certification Program**

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 040</td>
<td>Introduction to Welding Processes</td>
</tr>
<tr>
<td>WELD 050</td>
<td>*Semi-Automatic Welding Processes</td>
</tr>
<tr>
<td>WELD 055</td>
<td>*Manual Electric Arc Welding Processes</td>
</tr>
<tr>
<td>WELD 060</td>
<td>Production Welding Techniques</td>
</tr>
<tr>
<td>WELD 065</td>
<td>*Inert Gas Welding</td>
</tr>
<tr>
<td>WELD 070</td>
<td>*Advanced Inert Gas Welding</td>
</tr>
<tr>
<td>WELD 075</td>
<td>*Certification Welding I</td>
</tr>
<tr>
<td>WELD 080</td>
<td>*Certification Welding II</td>
</tr>
</tbody>
</table>

*Prerequisite

Units Required 17

---

ASSOCIATE OF SCIENCE DEGREE

To acquire the **Associate of Science Degree in Welding Technology**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCED 060</td>
<td>Elementary Metallurgy</td>
</tr>
<tr>
<td>WELD 040</td>
<td>Introduction to Welding Processes</td>
</tr>
<tr>
<td>WELD 045</td>
<td>Introduction to Electric Welding</td>
</tr>
<tr>
<td>WELD 050</td>
<td>*Semi-Automatic Welding Processes</td>
</tr>
<tr>
<td>WELD 055</td>
<td>*Manual Electric Arc Welding Processes</td>
</tr>
<tr>
<td>WELD 060</td>
<td>Production Welding Techniques</td>
</tr>
<tr>
<td>WELD 065</td>
<td>*Inert Gas Welding</td>
</tr>
<tr>
<td>WELD 070</td>
<td>*Advanced Inert Gas Welding</td>
</tr>
</tbody>
</table>

Select one course from the following:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCED 090</td>
<td>Blueprint Reading for Manufacturing Drawing</td>
</tr>
<tr>
<td>WELD 075</td>
<td>*Certification Welding I</td>
</tr>
</tbody>
</table>

Units Required 28 - 30

*Prerequisite
WILDLAND FIRE TECHNOLOGY
DIVISION OF PUBLIC SAFETY

ASSOCIATE OF SCIENCE DEGREE

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**, it is necessary to complete the graduation requirements of the College along with the following courses:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFT 077 Wildland Fire Academy</td>
<td>13</td>
</tr>
<tr>
<td>WFT 101 Wildland Fire Behavior</td>
<td>3</td>
</tr>
<tr>
<td>WFT 102 Wildland Fire Fighter Safety and Survival</td>
<td>3</td>
</tr>
<tr>
<td>WFT 103 Wildland Fire Operations (Ground, Air)</td>
<td>3</td>
</tr>
<tr>
<td>WFT 104 Wildland Fire Public Information Officer, Prevention, and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>WFT 105 Wildland Fire Logistics, Finance, and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

*Plus a minimum of 6 units selected from the following:

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMT 093 *Emergency Medical Technician</td>
</tr>
<tr>
<td>FTEC 044 Physical Fitness and Ability for the Fire Fighter</td>
</tr>
<tr>
<td>FTEC 107 Hazardous Materials I</td>
</tr>
<tr>
<td>FTEC 108 *Hazardous Materials II</td>
</tr>
<tr>
<td>FTEC 121 Emergency Response</td>
</tr>
</tbody>
</table>

**Units Required** 34

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

**Wildland Fire Technology**

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:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFT 077 Wildland Fire Academy</td>
<td>13</td>
</tr>
<tr>
<td>WFT 101 Wildland Fire Behavior</td>
<td>3</td>
</tr>
<tr>
<td>WFT 102 Wildland Fire Fighter Safety and Survival</td>
<td>3</td>
</tr>
<tr>
<td>WFT 103 Wildland Fire Operations (Ground, Air)</td>
<td>3</td>
</tr>
<tr>
<td>WFT 104 Wildland Fire Public Information Officer, Prevention, and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>WFT 105 Wildland Fire Logistics, Finance, and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

*Plus a minimum of 6 units selected from the following:

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMT 093 *Emergency Medical Technician</td>
</tr>
<tr>
<td>FTEC 044 Physical Fitness and Ability for the Fire Fighter</td>
</tr>
<tr>
<td>FTEC 107 Hazardous Materials I</td>
</tr>
<tr>
<td>FTEC 108 *Hazardous Materials II</td>
</tr>
<tr>
<td>FTEC 121 Emergency Response</td>
</tr>
</tbody>
</table>

**Units Required** 34

*Prerequisite
10 Student Learning Outcomes
Degree, Certificate and General Education

Student Learning Outcomes (SLOs) – Degree & Certificate
Degree and Certificate Student Learning Outcomes (SLOs) represent the knowledge, skills, and/or abilities that students should be able to demonstrate upon completion of a degree or certificate program.

Arts & Cultural Programs Division

ANIMATION – AS DEGREE
- Successful students will be able to develop and communicate a concept design that is original and engaging by using both digital and traditional methods such as quick sketching, perspective drawing and digital sculpture.
- Successful students will exhibit a knowledge and understanding of the principals of animation by animating digital character or man-made object.
- Successful students will competently create a project appropriate for a portfolio in the entertainment industry by using the latest digital visualization tools and given a concept design describing an environment, character or man-made object.

ART – AA DEGREE
- Students will describe and discuss the fundamental or “formal properties” of art: line, positive/negative space, shade/tone, texture, color, etc.
- Students will be able to identify, analyze, and evaluate basic techniques of “process” in a variety of media: drawing, painting, sculpture, printmaking, computer graphics, photography, ceramics, etc.
- Students will be able to produce carefully considered art works to final completion thereby demonstrating their “practice” of art.

ART HISTORY – AA-T DEGREE
- Express an understanding of the roles and functions of art in society.
- Discuss works of art representative of diverse cultures and regions within a historical and social context.
- Explain how works of art communicate visual meaning.
- Describe the principles and formal elements of visual art.
- Apply historical art terminology and methodology in analyzing and interpreting works of art.

COMMERCIAL ART – AS DEGREE
- Given a specific subject matter, students will use the professional design software to produce creative design solutions appropriate for commercial printing or other commercial uses, as well as print and present a portfolio.

MUSIC – AA DEGREE
- All Rio Hondo music majors will be able to identify the major musical forms and the manner in which these forms define the style characteristics of the major musical periods: Baroque, Classical, Romantic, and Contemporary eras.
- Students will be able to identify and construct Major and the three forms of Minor scales in all 12 keys.
- All Music majors will be able to analyze a given four-part choral.

PHOTOGRAPHY – AS DEGREE
- Students create photographs that demonstrate effective control of aperture, shutter speed, and exposure.
- Given a specific thematic assignment, students create photographic images that demonstrate a working understanding of principles of photographic composition and framing.

THEATER ARTS – AS DEGREE
- All Rio Hondo College Theatre Arts majors will be able to identify the difference between comedy and drama according to Aristotle’s six elements of drama. Students will be able to identify plot, character, theme, music, diction, and spectacle.
Behavioral &
Social Science Division

CHICANO STUDIES – AA DEGREE
▪ A student who successfully completes the AA Degree requirements for Chicano/a Studies should be able to (1) define and explain the basic terms and concepts with the field of Chicano/a Studies and (2) identify and analyze at minimum two contemporary issues affecting the Chicano/Latino 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
▪ Upon completion of the Drug Studies degree, students will demonstrate an understanding of concepts, theories, and techniques that are foundational to the practice of addiction treatment.
▪ Upon completion of the Drug Studies degree, students will demonstrate an understanding of assessment methods, treatment planning, and case management.
▪ Upon completion of the Drug Studies degree, students will demonstrate an understanding of recovery-oriented behavior in addiction treatment management.

DRUG STUDIES – CERTIFICATE
▪ Upon completion of the Drug Studies certificate, students will demonstrate an understanding of concepts, theories, and techniques that are foundational to the practice of addiction treatment.
▪ Upon completion of the Drug Studies certificate, students will demonstrate an understanding of assessment methods, treatment planning and case management.

PHILOSOPHY – AA Degree
▪ Given prior instruction on a topic of philosophical interest, the student will demonstrate the ability to formulate and defend a philosophical position by clearly articulating a thesis statement and providing supporting points.
▪ The student will demonstrate an ability to read and comprehend philosophical texts by accurately identifying the main point and some key supporting points.
▪ The student will demonstrate proficiency with the main terms, concepts, and definitions that pertain to the different branches of philosophy.
The student will develop a critical understanding of the work of central thinkers in the Western philosophical tradition and demonstrate this understanding by means of a competent paraphrase of their main ideas.

The student will demonstrate an ability to defend a philosophical position or argument.

The student will demonstrate the ability to evaluate the validity of a deductive argument.

The student will demonstrate the ability to evaluate the strength of an inductive argument.

**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 both 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**
- Upon completion of the Associate of Arts degree in Sociology for Transfer, the student should understand the foundations of Sociology as a discipline.
- Upon completion of the Associate of Arts degree in Sociology for Transfer, the student should have a broad understanding of society and social behavior.
- Upon completion of the Associate of Arts degree in Sociology for Transfer, students should be able to understand the importance of social and historical contexts.
- Upon completion of the Associate of Arts degree in Sociology for Transfer, students should have the ability to demonstrate basic social analysis skills.

**Business Division**

**ACCOUNTING – A.S. DEGREE**
- Students are able to demonstrate an understanding of basic accounting principles and procedures, as well as the role of accounting and bookkeeping within various business organizations.
- Students are able to apply critical thinking skills derived from knowledge of accounting theory, to financial analysis and management decision-making.
- Students are able to recognize and understand the importance of ethics and social responsibility in the accounting profession.
- Students are able to analyze, process, and report financial information in accordance with Generally accepted accounting principles within established normal and computerized protocols.

**ACCOUNTING – CERTIFICATE**
- Students are able to demonstrate an understanding of basic accounting principles and procedures, as well as the role of accounting and bookkeeping within various business organizations.
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- Students are able to recognize and understand the importance of ethics and social responsibility in the accounting profession.
- Students are able to analyze, process, and report financial information in accordance with Generally accepted Accounting Principles within established normal and computerized protocols.

**BUSINESS ADMINISTRATION – AA DEGREE**
- 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.
- Demonstrate an understanding of economic principles by differentiating between micro and macro economies, explaining supply and demand, and applying economic principles to make business decisions.
Use statistical and mathematical expressions to make general statements about populations of customers and make numeric business decisions.

COMPUTER INFORMATION TECHNOLOGY: COMPUTER SYSTEMS – AS DEGREE
- Students will demonstrate basic computer literacy including input/output devices and MS Office Suite of applications.
- Students will be able to apply critical thinking and problem-solving skills required by employers and four-year universities in the computer information systems field.
- Students will be able to analyze a problem as well as identify and define the computing requirements appropriate to its solution.
- Students will be able to design and write usable effective computer programs that can be integrated into the user environment using modern high-level languages.
- Students will be able to communicate effectively and efficiently with clients, users, and peers using both verbal and written communication tools.
- Students will be able to demonstrate a working knowledge of computer hardware, operating systems, and application software.
- Students will be able to identify the tasks of systems analysis and database design and use current technology necessary for computing practice.

COMPUTER INFORMATION TECHNOLOGY: COMPUTER SYSTEMS – CERTIFICATE
- Demonstrate basic computer literacy including input/output devices and MS Office Suite of applications.
- Students will demonstrate advanced knowledge of spreadsheet and word processing applications as utilized in the business environment.
- Students will be able to apply critical thinking and problem-solving skills required by employers and four-year universities in a professional office environment.

COMPUTER INFORMATION TECHNOLOGY: MICROCOMPUTER SPECIALIST – AS DEGREE
- Students will demonstrate basic computer literacy including input/output devices and MS Office Suite of applications.
- Students will demonstrate advanced knowledge of spreadsheet and word processing applications as utilized in the business environment.

COMPUTER INFORMATION TECHNOLOGY: MICROCOMPUTER SPECIALIST – CERTIFICATE
- Demonstrate basic computer literacy including input/output devices and MS Office Suite of applications.
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- Students will be able to apply critical thinking and problem-solving skills required by employers and four-year universities in a professional office environment.

INTERNATIONAL BUSINESS – AS DEGREE & 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 must be able to analyze management ethical issues and cultural sensitivities in the global business.
- Students are able to apply integrated marketing strategies with customers, partners, and regulators in the global marketplace.
- Students are able to describe international trade processes and the functions of the foreign exchange market.
LOGISTICS MANAGEMENT– AS DEGREE
- After completing the courses in this degree, the student should know the role and historical development of supply chain management and integrated logistics functions.
- The student should know the relationship between operations, warehousing, distribution centers, and materials management.
- The student should know the importance of sound inventory management principles.
- The student should be able to contribute to process improvement projects.

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- The student should know the importance of sound inventory management principles.
- The student should be able to contribute to process improvement projects.

BUSINESS MARKETING – AS DEGREE & CERTIFICATE
- Analyze a business situation by conducting a SWOT analysis (strengths, weaknesses, opportunities and threats) and utilize the outcomes to make business decisions.
- Create a marketing plan that explains the marketing mix and defines the appropriate target market.
- Given a business marketing situation, identify the most profitable segments of the market, define the logical target market, and describe how the business of product will be positioned.

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 to preparing pro-forma 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.

MANAGEMENT & SUPERVISION – AS DEGREE
- Students are able to identify the concepts of organizational design and behavior of organizations at the supervisory level.
- Students are able to describe how technology and globalization affect the supervisor’s job.
- Students are able to describe the term “360-degree appraisal” and apply the appropriate methods of motivation in an organizational setting.
- Students are able to explain the effect of workforce diversity on motivating employees.

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- Students are able to explain the effect of workforce diversity on motivating employees.

SMALL BUSINESS/ENTREPRENEURIALISM – AS DEGREE
- Students should develop an effective business plan by using guerrilla marketing strategies and basic financial statements.
- Students must be able to distinguish between the debt vs. equity finance options.
- Students will be able to explain the essential importance of cash flow planning for small business operations.
- Students are able to use break-even analysis to evaluate marketing plan.

SMALL BUSINESS/ENTREPRENEURIALISM – CERTIFICATE
- Students should develop an effective business plan by using guerrilla marketing strategies and basic financial statements.
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Career & Technical Education Division

ALTERNATIVE ENERGY TECHNOLOGY – AS DEGREE
- The skills developed during classes will enhance the student’s ability to complete the North American Board of Certified Energy Practitioners (NABCEP) and to become a specialist in the Solar Photovoltaic industry.

The Degree is designed to prepare an individual for transfer and/or entry-level employment as an Alternative Energy Technician within the renewable energy/green technology field.

Upon completion of this program, an individual will have the knowledge and skills necessary to install residential and commercial solar and wind power systems.

The individual 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 the student’s ability to complete the (NABCEP) North American Board of Certified Energy Practitioners and to become a specialist in the Solar Photovoltaic industry.

The Certificate is designed to prepare an individual for entry-level employment as an Alternative Energy Technician within the renewable energy/green technology field.

Upon completion of this program, an individual 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 be able to 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.

Upon successful completion of this course, students will be able to describe and demonstrate simulated on-the-job conditions regarding the congressional nine alternative fuel sources.

Regardless of career path (Private, Government or Fleet) the Alternative Fuels A.S Degree or COA student obtains transferable credit to a university and points towards qualifying as a certified CSA Fuel Tank Inspector.

Upon successful completion of this course, 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
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Regardless of career path (Private, Government or Fleet) the Alternative Fuels A.S Degree or COA student obtains transferable credit to a university and points towards qualifying as a certified CSA Fuel Tank Inspector.

Upon successful completion of this course, students are capable of describing applications in all nine Alternative Fuel areas (Compressed, Liquid, generated electrical and Biodiesel).
Students will be able to 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.

Upon successful completion of this course, students will be able to pass the safety requirements with complete knowledge of NFPA, CSA, CGA 6.4, and OSHA standards.

ARCHITECTURAL DESIGN & DRAWING – AS DEGREE
Given various visual communication technologies, such as traditional drafting, CADD, and BIM (Building Information Modeling) with industry standards such as AIA and AEC (Architectural, Engineering and Construction), Graphic Standards and the Building Code, successful students will be able to effectively communicate graphically and understand and interpret design concepts and criteria for various disciplines related to the AEC industry.

Upon completion of the program, successful students are prepared for industry employment and advancement within a variety of related AEC professions.

Further, students are 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) with industry standards such as AIA and AEC (Architectural, Engineering and Construction), Graphic Standards and the Building Code, successful students will be able to effectively communicate graphically and understand and interpret design concepts and criteria for various disciplines related to the AEC industry.

Upon completion of the certificate, successful students are 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 three-dimensional model development, with industry standards such as AIA and AEC (Architectural, Engineering and Construction), Graphic Standards and the Building Code, successful students will be able to effectively understand, communicate and interpret design concepts and criteria for various disciplines related to the AEC industry.

Upon completion of the program, successful students are prepared to transfer to advanced fields of study in architecture-related occupations.

HEAVY EQUIPMENT TECHNOLOGY – AS DEGREE
While obtaining and earning the degree, the student will be able to work safely and identify safety and health hazards in a heavy equipment service and repair facility.

While obtaining and earning the degree, the student will be able to communicate effectively, both verbally and through the written word, in a heavy equipment service and repair environment.

While obtaining and earning the degree, the student will be able to properly use and care for heavy equipment service and repair tools and equipment.

While obtaining and earning the degree, the student will be able to research, read, and use heavy equipment service and repair literature, both in print and in electronic format.

While obtaining and earning the degree, the student will be able to identify, analyze, and evaluate general heavy equipment service and repair issues to determine concern, cause, and correction.

HEAVY EQUIPMENT SERVICE TECHNICIAN SPECIALIST – CERTIFICATE
While obtaining and earning the Certificate of Achievement, the student will be able to work safely and identify safety and health hazards in a heavy equipment service and repair facility.

While obtaining and earning the Certificate of Achievement, the student will be able to communicate effectively, both verbally and through the written word, in a heavy equipment service and repair environment.

While obtaining and earning the Certificate of Achievement, the student will be able to properly use and care for heavy equipment service and repair tools and equipment.

While obtaining and earning the Certificate of Achievement, the student will be able to research, read, and use heavy equipment service and repair literature, both in print and in electronic format.

While obtaining and earning the Certificate of Achievement, the student will be able to identify, analyze, and evaluate general heavy equipment service and repair issues to determine concern, cause, and correction.
AUTOMOTIVE TECHNOLOGY – AS DEGREE

- While obtaining and earning the degree, the student will be able to work safely and identify safety and health hazards in an automotive service and repair facility.
- While obtaining and earning the degree, the student will be able to communicate effectively, both verbally and through the written word, in an automotive service and repair environment.
- While obtaining and earning the degree, the student will be able to properly use and care for automotive service and repair tools and equipment.
- While obtaining and earning the degree, the student will be able to research, read, and use automotive service and repair literature, both in print and in electronic format.
- While obtaining and earning the degree, the student will be able to identify, analyze, and evaluate specific automotive service and repair issues to determine concern, cause, and correction.

GENERAL SERVICE TECHNICIAN – CERTIFICATE

- While obtaining and earning the Certificate of Achievement, the student will be able to work safely and identify safety and health hazards in an automotive service and repair facility.
- While obtaining and earning the Certificate of Achievement, the student will be able to communicate effectively, both verbally and through the written word, in an automotive service and repair environment.
- While obtaining and earning the Certificate of Achievement, the student will be able to properly use and care for automotive service and repair tools and equipment.
- While obtaining and earning the Certificate of Achievement, the student will be able to research, read, and use automotive service and repair literature, both in print and in electronic format.
- While obtaining and earning the Certificate of Achievement, the student will be able to identify, analyze, and evaluate general automotive service and repair issues to determine concern, cause, and correction.

CIVIL DESIGN & DRAWING – CERTIFICATE

- Given various visual communication technologies, such as traditional drafting and CADD, with industry standards, such as AEC Graphic Standards, successful students will be able to effectively communicate, understand and interpret design concepts and criteria for the civil engineering field.

CIVIL DESIGN TECHNOLOGY – AS DEGREE

- Upon completion of the program, successful students are 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 – CERTIFICATE

- Given various visual communication technologies, such as traditional drafting and CADD, with industry standards, such as AEC Graphic Standards, successful students will be able to effectively communicate, understand and interpret design concepts and criteria for the civil engineering field.
- Upon completion of the program, successful students are 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.
- Further, students are prepared to transfer to advanced fields of study in related occupations.

ELECTRONIC TECHNOLOGY – AS DEGREE

- The knowledge and skills developed during classes will enhance the student’s ability to become a specialist in the applied electronics industry.

- A student will be prepared for transfer and/or entry-level employment as an Electronics Technician.

ELECTRONIC TECHNOLOGY – CERTIFICATE

- The students training in theory and practical skills will demonstrate the necessary for preparation as an Electronics Technician.
- The student will acquire the knowledge and hands-on skills that is demanded of modern Electronics Technicians.
Upon completion of this program an individual will have the knowledge and skills necessary to gain entry-level employment in the applied electronics industry.

ENGINEERING DESIGN DRAFTING TECHNICIAN – CERTIFICATE
- Given various visual communication technologies, such as traditional drafting and CADD, with industry standards such as ANSI / ASME and ISO, successful students will be able to effectively communicate, understand and interpret design concepts and criteria for industries that design, engineer and manufacture products.
- Upon completion of the program, successful students are prepared for industry employment and advancement within a variety of related professions.
- Further, students are prepared to transfer to advanced fields of study in related occupations.

GEOPHYSICAL INFORMATION SYSTEM – CERTIFICATE
- Student can describe and discuss the applications of geophysical information systems (GIS) in their respective field. Student can use GIS to analyze and uncover spatial patterns and trends, to model environmental conditions and to predict future scenarios, such as post-fire conditions or to model suitable locations for a new housing or wind farm development.
- Student can evaluate relevance of information for GIS project and contribute new data from variety of sources, including Global Positioning Systems (GPS).
- Student can cartographically examine and assemble information for a target audience.

HONDA PROFESSIONAL CAREER TRAINING PROGRAM SPECIALIZATION (PACT) – AS DEGREE
- The skills developed during classes will enhance the student’s 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 an individual for transfer and/or entry-level employment as an Automotive Technician within a Honda/ Acura Dealer.

SURVEYING, MAPPING & DRAWING – CERTIFICATE
- Given instruction in both the theory and practice of land surveying, as well as instruction in various visual communication technologies, such as traditional drafting and CADD, with industry standards, successful students will be able to effectively collect, develop, map, communicate, understand and interpret geospatial data.
- Upon completion of the program, successful students are prepared for industry employment and advancement within a variety of related professions, such as land surveyor, civil engineering, construction engineering, transportation engineering, and geotechnical engineering.
- Further, students are prepared to transfer to advanced fields of study in related occupations.

WELDING TECHNOLOGY – CERTIFICATE
- While obtaining and earning the Certificate of Achievement, the student will be able to work safely and identify safety and health hazards in the workplace.
- While obtaining and earning the Certificate of Achievement, the student will be able to communicate effectively, both verbally and through the written word, in a welding environment.
- While obtaining and earning the Certificate of Achievement, the student will be able to use, operate, and care for welding materials, tools, and equipment.
- While obtaining and earning the Certificate of Achievement, the student will be able to research, read, and use welding material build sheets, blueprints, and other welding-related literature, both in print and in electronic format.
- While obtaining and earning the Certificate of Achievement, the student will be able to identify, analyze, evaluate, and demonstrate different welding operations and processes.

Communications & Languages Division

COMMUNICATION STUDIES – AA-T DEGREE
- Upon successful completion of this degree, students will have an understanding of conflict management strategies in an interpersonal relationship context.
- Upon successful completion of this degree, students will have an understanding of conflict management strategies in an interpersonal relationship context.
Upon successful completion of this degree, students will have the ability to 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.

Upon successful completion of this degree, students should be able to control/manage their verbal and nonverbal communication to enhance the audience’s understanding and appreciation of the speech message appropriate to the specific audience.

Upon successful completion of this degree, students should have the ability to argue in favor of a thesis with a supportive example and refute an opposing position with an accompanying example.

Upon successful completion of this degree, students should have the ability to think critically in order to understand a debate position, including the debator’s reasoning.

ENGLISH & LITERATURE – AA DEGREE
- Upon successful completion of this degree, the student will be able to formulate an argument and support it with relevant evidence.
- Upon successful completion of this degree, the student will be able to communicate ideas in an organized, logical manner.
- Upon successful completion of this degree, the student will be able to incorporate quoted or paraphrased material from credible outside sources.
- Upon successful completion of this degree, the student will be able to document sources using a designated citation format.
- Upon successful completion of this degree, the student will be able to identify the work of significant writers, literary works, and cultural movements from a variety of diverse communities.
- Upon successful completion of this degree, the student will be able to interpret a selection in light of the significant social and historical factors that inform the text.
- Upon successful completion of this degree, the student will be able to explicate a selection using rhetorical textual analysis.
- Upon successful completion of this degree, the student will be able to apply standard English grammar and mechanics in both written and oral communication.

MASS COMMUNICATIONS: MASS MEDIA – AS DEGREE
- Upon successful completion of this degree, the student will be able to understand 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.
- Upon successful completion of this degree, the student will be able to write a news story that demonstrates effective interviewing and note-taking techniques.
- Upon successful completion of this degree, the student will be able to take press photos, print the photos, and prepare the composition of the photos for publication.
- Upon successful completion of this degree, the student will be able to 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
- Upon successful completion of this certificate, the student will be able to write a news story that demonstrates effective interviewing and note-taking techniques.
- Upon successful completion of this certificate, the student will be able to take press photos, print the photos, and prepare the composition of the photos for publication.
- Upon successful completion of this certificate, the student will be able to write a news story of a particular length that can be produced on the air for an allotted time slot.
- Upon successful completion of this certificate, the student will be able to demonstrate knowledge of the broad area of the history, theory, aesthetic principles, and techniques used in motion pictures.

MASS COMMUNICATIONS: PRINT MEDIA – AS DEGREE
- Upon successful completion of this degree, the student will be able to gather information, write, and edit copy that demonstrates an understanding of the rights and responsibilities of the student press to the community it serves for use in the print school newspaper.
- Upon successful completion of this degree, the student will be able to gather information, write, and edit copy that demonstrates an understanding of the rights and responsibilities of the student press to the community it serves for use in the digital school newspaper.
Upon successful completion of this degree, the student will be able to write a general interest article or story to be published in the college magazine for a student audience.

Upon successful completion of this degree, the student will be able to take press photos, print the photos, and prepare the composition of the photos for publication.

MASS COMMUNICATIONS: PRINT MEDIA – CERTIFICATE
Upon successful completion of this certificate, the student will be able to gather information, write, and edit copy that demonstrates an understanding of the rights and responsibilities of the student press to the community it serves for use in the print school newspaper.

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Upon successful completion of this certificate, the student will be able to write a general interest article or story to be published in the college magazine for a student audience.

Upon successful completion of this certificate, the student will be able to take press photos, print the photos, and prepare the composition of the photos for publication.

Upon successful completion of this certificate, the student will be able to write a news story that demonstrates effective interviewing and note-taking techniques.

SPANISH – AA-T DEGREE
Using critical thinking skills, students will be able to 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.

In addition, students will be able to write dialogues, letters, reports, summaries and essays on various topics using correct grammar, syntax, punctuation, capitalization, and diacritical marks.

Furthermore, students will be able to 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

ASSOCIATE DEGREE NURSING – AS DEGREE
Upon completion of the Rio Hondo College Associate Degree in Nursing, the graduate will be aligned in a position to transition into a Bachelor’s of Science in Nursing program.

The student will integrate the simulated clinical experience to enhance clinical performance in all clinical areas.

VOCATIONAL NURSING – AS DEGREE
Graduates 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.

Graduates will be prepared and have successful pass rate on national vocational nursing exam.

Graduates will complete all general education (GE) requirements for AS degree, in vocational nursing.

The student will integrate the simulated clinical experience to enhance clinical performance in all clinical area.

VOCATIONAL NURSING – CERTIFICATE
Graduates will be prepared and have successful pass rate on national vocational nursing exam.

Graduates 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

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.
The student will apply fitness concepts, definitions and principles to personal training, group fitness instructions, or health and fitness settings.

Upon completion of the certificate. Students will have a career in the personal training or fitness instructor field. (Assessment: Student gets a job in a related career, or transfer to a 4-year institution within 3 years).

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.

ATHLETIC TRAINER’S AIDE – CERTIFICATE

- Students will conduct a primary & 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 the 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.

ATHLETIC TRAINER’S AIDE – CERTIFICATE

- 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.

- 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

- Given the variety of types of environmental, health and safety hazards that may be encountered in the environmental field, students will identify the types of hazards.

ENVIRONMENTAL TECHNOLOGY – CERTIFICATE

- Given the variety of types of environmental, health and safety hazards that may be encountered in the environmental field, students will identify the types of hazards.

GENERAL STUDIES: SCIENCE & MATHEMATICS – AS DEGREE

- Students critique and interpret data presented in appropriate graphical and/or verbal formats.

- Students evaluate the strengths and limitations of scientific models employed to describe a particular phenomenon.

MATHEMATICS – AS-T DEGREE

- Given the description of a real-world problem, students construct correct equations and/or inequalities to represent the problem and determine the correct solution or set of solutions.

Public Safety Division

ADMINISTRATION OF JUSTICE – AS DEGREE

- Apply legal definitions, concepts, and principles to law enforcement, courts, or correctional settings.

- Communicate information in a clear and organized manner.

- Analyze ethical dilemmas encountered in the law enforcement and/or corrections fields and decide on the correct ethical choice.

- Apply constitutional, statutory, procedural, and case law to real-life criminal justice situations.

- Adapt to the diverse and multicultural nature of American society in the criminal justice setting.

- 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

- Apply legal definitions, concepts, and principles to law enforcement, courts, or correctional settings.
Communicate information in a clear and organized manner.

Analyze ethical dilemmas encountered in the law enforcement and/or corrections fields and decide on the correct ethical choice.

Apply constitutional, statutory, procedural, and case law to real-life criminal justice situations.

Adapt to the diverse and multicultural nature of American society in the criminal justice setting.

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**

Apply concepts related to the entire spectrum of EMS care including: Airway, Ventilation, Oxygenation, Trauma; Cardiology, Medical, and EMS Operations

Competently perform Patient Assessment (Medical and Trauma) psychomotor skills.

Competently perform Upper Airway Adjuncts and Suctioning psychomotor skills.

Competently perform Oxygen and Bag-Valve-Mask (apneic patient) psychomotor skills.

Competently perform Cardiac Arrest Management and AED psychomotor skills.

Competently perform Bleeding Control and Shock psychomotor skills.

Competently perform Spinal Immobilization psychomotor skills.

Competently perform Fracture and Dislocation Immobilization psychomotor skills.

Competently perform Pre-hospital Childbirth psychomotor skills.

**FIRE TECHNOLOGY – AS DEGREE**

Identify minimum qualifications and entry-level 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; identify fire service history, culture, and diversity.

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.

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.

**FIRE TECHNOLOGY – CERTIFICATE**

Identify minimum qualifications and entry-level 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; identify fire service history, culture, and diversity.

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.

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.
- Calculate flow requirements for fire apparatus, diagram a pump and plumbing schematic for fire apparatus, and apply mathematic formulae to hydraulics problems.

- Identify and describe the apparatus used in the fire service and the equipment and maintenance of fire apparatus and equipment. (Elective)

- Identify and describe common types of Fire Suppression Systems (4 basic types).

- 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.

**BASIC POLICE TRAINING – CERTIFICATE**

- Apply the definitions, concepts, statutes, and constitutional principles covered in the POST Learning Domains to law enforcement work.

- Given scripted scenarios, demonstrate proficiency in handling situations involving a variety of law enforcement related incidents.

- Analyze ethical dilemmas encountered in law enforcement and decide on the correct ethical choice.

- Demonstrate self-defense skills in a safe and proficient manner.

- Demonstrate firearms skills in a safe and proficient manner.

- Demonstrate emergency vehicle operations in a safe and proficient manner.

- Prepare an accurate and complete arrest report that meets the requirements of law enforcement agencies.

- Use the certificate as a platform for a career as a peace officer.

**WILDLAND FIRE TECHNOLOGY – AS DEGREE**

- Assess impacts of fuel, weather, and topography on wildland fire behavior.

- Recognize and avoid the four common denominators of wildland fire fatalities.

- Given a wildland fire scenario, prepare an incident briefing based on factors of fuel, weather, topography, and man-made hazards.

- Demonstrate the three components of wildland fire prevention, including education, engineering, and enforcement.

- Make an operation shift plan that includes the following information: the people in charge, the operational objectives, resources, supplies necessary to meet the objectives, area map, weather forecasting, and safety briefing using standardized ICS forms.

**WILDLAND FIRE TECHNOLOGY – CERTIFICATE**

- Safely manipulate wildland fire tools, including shovel, Pulaski, and McLeod.

- Recall the ten Standard Firefighting Orders.

- Deploy a fire shelter.

- Demonstrate proper use of the following tools and equipment: back pump, fuses, and backfire torch.

- Safely function within an Incident Command System environment.

- 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 be able to demonstrate upon completion of the general education requirements.

**Humanities**

- Students 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 create or perform artistic works and critically evaluate their efforts.

- Students interpret, analyze, and critique diverse literary texts by means of critical reading, classroom discussion, and composition.

- Students will be able to 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 construct correct equations and/or inequalities to represent the problem and determine the correct solution or set of solutions.
- Students critique and interpret data presented in appropriate graphical and/or verbal formats.
- Students 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 critique the stated assertions and assess whether or not the given hypothesis may be valid.
- Students utilize appropriate scientific apparatus to obtain quantitative and/or qualitative data and correctly document the resulting measurements.
- Given a problem of scientific interest, students develop and execute a procedure to investigate the problem.
- Students 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

- The student will analyze academic or literary texts to discern meaning.
- The student will summarize main ideas from academic or literary texts.
- The student will support an argument with evidence.
- The student will organize ideas coherently.
- The student will evaluate the reliability of both print and electronic (research) sources and use them effectively.
- Using a conventional format the student will document both print and electronic sources.
- The student will vary or employ appropriate tone in conveying ideas.
- The student 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 that social and behavioral scientists use to examine the human condition.
- Students will develop and communicate alternative explanations or solutions for contemporary social issues.
# Courses of Instruction

## Course Numbering System

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*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 to confirm how each college’s course will be accepted at a particular four-year college or university for transfer credit.

More courses may have been approved for C-ID since the publication of this catalog. You can also see C-ID approvals for Rio Hondo College at ASSIST.org or C-ID.net.

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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.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

If a 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 in the following pages. More courses may have been approved for C-ID since the publication of this catalog.
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More courses may have been approved for C-ID since the publication of this catalog. You can also see C-ID approvals for Rio Hondo College at ASSIST.org or C-ID.net.
Courses of Instruction

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ACCOUNTING
Division of Business

ACCT 090
Introduction to Accounting
Advisory: READ 023 or appropriate assessment; ACCT 095

This course provides basic knowledge of accounting principles, concepts, and procedures for a sole proprietorship. Students will learn how to use the TaxWise software to accurately file individual federal and state income tax returns within the scope of the VITA program. Students will also 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.

1 Unit
54 Lab hours

ACCT 101 (C-ID ACCT 110)
Financial Accounting
Advisory: READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; ACCT 090; MGMT 052

This course is the study of accounting as an information system and how information is used by investors, creditors, and other external users to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Topics include issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. This course is required of all accounting and business administration majors.

4 Units
72 Lecture hours

ACCT 102 (C-ID ACCT 120)
Managerial Accounting
Prerequisite: ACCT 101 with a grade of "C" or better
Advisory: READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment Transfers to: UC, CSU

This course introduces students to the fundamentals of managerial accounting for decision-making. This course is the study of how managers use accounting information in decision-making, planning, directing, and controlling operations. The course focuses on the flow of costs in a manufacturing environment, cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Topics include issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing environments. This course is required of all accounting and business majors.

4 Units
72 Lecture hours

ACCT 103
Payroll Accounting
Advisory: READ 023 or appropriate assessment; ACCT 090 or 101

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. This course is designed for accounting majors and those interested in pursuing entry-level positions within the payroll segment of accounting. This course is a comprehensive overview of federal and state payroll laws and their effect on payroll records and required government reports.

3 Units
54 Lecture hours

ACCT 104
Introduction to Governmental and Not-For-Profit Accounting
Prerequisite: ACCT 101 with a grade of "C" or better
Advisory: READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; MGMT 052

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.

3 Units
54 Lecture hours

ACCT 096
Volunteer Income Tax Assistance Program I
Advisory: READ 023 or appropriate assessment; ACCT 105

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. This course will cover Federal and California tax theories and laws appropriate for the current tax year, and students will apply their knowledge by taking the IRS exams for VITA volunteers. Upon successful completion of the IRS VITA Basic and Intermediate exams, the students will be able to assist 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 also 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.

1 Unit
18 Lecture hours

ACCT 097
Volunteer Income Tax Assistance Program II
Prerequisite: ACCT 096
Advisory: READ 023 or appropriate assessment

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 096 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 also 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.

4 Units
72 Lecture hours

ACCT 105
Income Tax Accounting
Advisory: READ 023 or appropriate assessment; ACCT 101

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. This course is designed for accounting majors and those interested in pursuing entry-level positions within the payroll segment of accounting. This course is a comprehensive overview of federal and state payroll laws and their effect on payroll records and required government reports.

3 Units
54 Lecture hours
Education Council as fulfilling the 60-hour qualifying education requirement (45 federal hours and 15 California hours) imposed by the State of California for becoming a Registered Tax Preparer.

4 Units
72 Lecture hours

ACCT 106
Computerized Accounting
Advisory: READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; ACCT 090; 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.

3 Units
54 Lecture hours

ACCT 101
Intermediate Accounting I
Prerequisite: ACCT 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; MGMT 052
Transfers to: CSU
This course provides a more in-depth study of accounting theory and practice. This course will further develop and refine the accounting knowledge and skills learned from Financial Accounting. Emphasis will be on complex financial transactions, such as debt and equity financing, pensions and leases, evaluating the impact of accounting changes and errors, and calculation and analysis of financial ratios and earnings per share for decision-making. This course is designed for students furthering their educational requirements for the CPA exam and/or to be qualified for higher level accounting positions.

3 Units
54 Lecture hours

ACCT 203
Introduction to Cost Accounting
Prerequisite: ACCT 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: CSU
Introduction to Cost Accounting takes a logical approach to the fundamentals of cost accounting as applied to a manufacturing business, and 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 will also evaluate both 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.

3 Units
54 Lecture hours

ACCT 290
Cooperative Work Experience/Internship for Accounting Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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

1 to 4 Units
3 Lecture hours
60 to 300 hours

ACCT 299
Directed Study: Accounting
Transfers to: UC, 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 3.1 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 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.

1 to 3 Units
54 to 216 Lab hours
ADMINISTRATION OF JUSTICE
Division of Public Safety

AJ 041
Effective Written Communications for Public Service Personnel
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 101
This course is designed to provide Administration of Justice or other interested students with intensive training in communication of facts and information of ideas in simple, clear, logical English. An emphasis will be placed on spelling, correct usage of words, sentence structure, critical reading and discussion, creative thinking, techniques of observation, and other skills that lead to good writing. Topics include organization of ideas and are combined with an abundant practice in the writing of effective reports, bulletins, memos, letters, and other short papers.
3 Units
54 Lecture hours

AJ 060
Basic Firearms
Prerequisite: Department of Justice (DOJ) clearance
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 101
This course is designed for students interested in learning the proper use and storage of firearms. This course consists of instruction and demonstration in the safe handling, firing and care of firearms, related matters of legal liabilities, moral responsibilities and safety. The basics of marksmanship and range procedures are taught and the student is supervised in comprehensive scheduled range firing exercises. Introductory demonstrations in the operation of the police shotgun and semi-automatic weapons are also presented.
1 Unit
9 Lecture hours
27 Lab hours

AJ 070
Advanced Firearms
Prerequisite: AJ 060 and Department of Justice (DOJ) clearance
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 101
This course is designed to acquaint Administration of Justice or other interested students with the legal provisions and safety precautions associated with the use of firearms. A pistol match competition will be arranged by the instructor. The course laboratory work provides supervised instruction in the firing of handguns and shotguns.
2 Units
18 Lecture hours
54 Lab hours

AJ 101 (C-ID AJ 110)
Introduction to Administration of Justice
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the 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 those principles and approaches. Although justice structure and process is examined in a cross-cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts and corrections. Students are introduced to the origins and development of criminal law, legal process, sentencing, and incarceration policies.
3 Units
54 Lecture hours

AJ 102 (C-ID AJ 122)
Criminal Procedures
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to provide Administration of Justice or other interested students with an in-depth study of the legal responsibilities of law enforcement. An emphasis will be placed on the judicial segment of the administration of justice system. Topics include laws of arrest, custody, past, present, and future analysis of the procedures for each subsystem within the administration of justice system from initial entry to final disposition. The relationship each segment maintains with system members will also be covered.
3 Units
54 Lecture hours

AJ 104 (C-ID AJ 124)
Legal Aspects of Evidence
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to provide Administration of Justice or other interested students with an in-depth study of evidence rules. An emphasis will be 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 will be required to brief cases.
3 Units
54 Lecture hours

AJ 105 (C-ID AJ 160)
Community Relations/Multicultural Issues Within Public Service
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC
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.
3 Units
54 Lecture hours

AJ 106 (C-ID AJ 120)
Criminal Law I
Prerequisite: AJ 101 with a grade of “C” or better, or completion of PAC 040 or equivalent
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: AJ 106 or AJ 107)
This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice courses will build. The course will also include some limited discussion of prosecution and defense decision-making, criminal culpability, and defenses to crimes.
3 Units
54 Lecture hours
Introduction to Forensic Biology
Prerequisite: AJ 101 with a grade of “C” or better, or completion of PAC 040 or equivalent.
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: AJ 106 or AJ 107)

This course is designed to provide Administration of Justice or other interested students with a comprehensive discourse on criminal statutes and their definition. Topics include classification as applied to the system of administration of justice, crimes against persons, property, general statutes, and health and safety statutes, as well as other state and federal laws.

3 Units
54 Lecture hours

AJ 200
Introduction to Forensic Chemistry
Prerequisite: Grade of “C” or better in each of the following courses: BIOL 101; CHEM 231; PHYS 160; MATH 130
Advisory: ENGL 101
Transfers to: CSU

This course is designed to provide the student who has an interest in forensic science with an overview of the role of forensic science and the crime laboratory analyst in the legal system. The focus is on non-biological evidence, such as controlled substances and toxicology, trace evidence, and firearm evidence. Students will develop the skills necessary to evaluate the applicability of each method as it applies to particular case situations. Issues of scientific versus legal burdens of proof, legal terminology, and trial procedure will also be discussed.

3 Units
54 Lecture hours

AJ 201
Introduction to Forensic Biology
Prerequisite: AJ 200
Advisory: ENGL 101
Transfers to: CSU

This course is designed to provide students with an introduction and broad overview of the forensics sciences. The emphasis will be on the application of biological sciences to legal investigations. It will provide an understanding of various physiological fluid and DNA testing methodologies and their applicability to forensic science. Students will learn the skills necessary to evaluate the relevance of each method to particular case situations. Issues of scientific versus legal burden of proof, legal terminology, and trial will also be discussed.

3 Units
54 Lecture hours

AJ 207 (C-ID AJ 220)
Juvenile Law and Procedure
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; 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. An emphasis will be 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 will be contrasted with adult law procedures.

3 Units
54 Lecture hours

AJ 208 (C-ID AJ 140)
Principles of Investigation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 101
Transfers to: CSU

This course addresses the techniques, procedures, and ethical issues in the investigation of crime, including 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.

3 Units
54 Lecture hours

AJ 215
Vice and Narcotics Control
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course is designed to provide Administration of Justice or other interested 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.

3 Units
54 Lecture hours

AJ 228
Police Field Operations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 101
Transfers to: CSU

This course is designed to provide Administration of Justice or other interested students with an in-depth understanding of the history and development of Police Field Operations. Particular emphasis is placed on the planning of 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, handling of requests for service, vehicular traffic-related problems, and civil and domestic disturbances are also presented in the course.

3 Units
54 Lecture hours

AJ 250
Contemporary Issues in the Criminal Justice System
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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 which serve as a basis of contemporary decision-making. Specific issues to be used in the discussions will vary from semester to semester.

3 Units
54 Lecture hours

AJ 275 (C-ID AJ 150)
Introduction to Forensic Science
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course is designed to prepare Administration of Justice, Forensic Science, and California Peace Officer students for the Forensic Science Identification Program. This course provides an introduction to the role of forensics in criminal investigations. It examines the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents and controlled substances.

3 Units
54 Lecture hours

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Justice

Directed Study: Administration of
Related Fields

Cooperative Work Experience/Internship: AET 202 (Formerly AET 070)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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. The student will be working in a skilled or professional level assignment in the area of Law Enforcement 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 Law Enforcement or Administration of Justice 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

1 to 4 Units
3 Lecture hours
60 to 300 hours

A] 299
Directed Study: Administration of Justice

Transfers to: UC, 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 3.1 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 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.

1 to 3 Units
54 to 216 Lab hours

ALTERNATIVE ENERGY TECHNOLOGY
Division of Career & Technical Education

AET 120
Introduction to Alternative Energy Technology (Same as ET 120)
(Formerly AET 070)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: CSU

This course is an introductory course that will examine the theory behind present day energy systems which will include an in-depth analysis of the design and installation of alternate energy systems. Topics will include: solar electrical systems, wind electrical systems, solar water heating systems, wind mechanical systems, small hydro-electrical systems, and conservation methods used to save energy. Also presented are topics on geothermal energy, fuel cells, biomass systems, and applications of alternate energy in transportation, industrial, commercial, and residential systems. Students will collect solar data using an irradiance meter and determine power consumption of a typical residence to develop an alternative energy solution. This course is intended for students who are contemplating a career in the alternative energy industry.

3 Units
45 Lecture hours
27 Lab hours

AET 121
Photovoltaic Systems Design and Installation (Same as ET 121)
(Formerly AET 072)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: CSU

This is an introductory course that will examine and implement the design and installation of solar photovoltaic systems, which will include the installation of a working solar photovoltaic power system. Students will 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. This course is designed to prepare the student for the North American Board of Certified Energy Practitioners (NABCEP) Entry Level Exam. This course is intended for students that are contemplating a career in the solar photovoltaic energy industry.

3 Units
45 Lecture hours
27 Lab hours

AET 122
Advanced Photovoltaic Systems Design and Installation (Same as ET 122)
(Formerly AET 074)
Prerequisite: AET/ET 121
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: CSU

This is the second course in the photovoltaic series that will further examine and implement the design and installation of solar photovoltaic power systems. Students will learn how to interpret the National Electrical Code (NEC) specifics concerning photovoltaic installations. The 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 interested in a career in the solar photovoltaic energy industry.

3 Units
45 Lecture hours
27 Lab hours

AET 123
Wind Energy Systems Design and Installation (Same as ET 123)
(Formerly AET 076)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: CSU

This is an introductory course that will examine and implement the design and installation of wind power systems which will include the installation of a working wind generation power system. Students will 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. Students will learn how to design and install wind power generation

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systems and obtain skills for employment. This course is intended for students who are contemplating a career in the wind turbine power generation industry.

3 Units
45 Lecture hours
27 Lab hours

AET 124
Advanced Wind Energy Systems Design and Installation (Same as ET 124)
(formerly AET 079)
Prerequisite: AET/ET 123
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfer to: CSU
This is the second course in the wind energy series that will further examine and implement the design and installation of wind power systems. Students will learn how to interpret the National Electrical Code (NEC) specifics concerning wind power installations. The 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 that are contemplating a career in the wind turbine power generation industry.

3 Units
45 Lecture hours
27 Lab hours

AET 182
Industrial Energy Management and Auditing (Same as ET 182)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This course is designed to provide individuals, who are working in or seeking employment in the green energy field, with an overview of the industrial energy management and auditing. Specifically, this course will assist students in their preparation of 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.

3 Units
54 Lecture hours

AET 280
Green Building Design Principles (Same as ET 280)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This course is designed to provide individuals, who are working in or seeking employment in the green building field, with an overview of the green building industry and its components. Specifically, this course will assist students in their preparation 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 & Atmosphere, Materials & Resources, Indoor Environmental Quality, and Innovation & Design Process. Each of these categories will be studied, with a focus on the significance of each particular credit.

3 Units
54 Lecture hours

ANIM 101
Introduction to Digital 3D Animation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is an introduction to the art of creating digital character animation. Students will be introduced to the concepts of digital sculpting,
lighting, rendering, rigging and animating 3-D objects. This course is beneficial for all students in classes related to Graphic Arts (Multimedia, Illustration, Web and Game Design and Film Production) and Industrial Design (Architectural, Automotive, Furniture, Clothing and Product Design).

**ANIM 105 Principles of Animation**
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; ART 230
Transfers to: CSU
This course introduces students to the basic principles that are the foundation for the art form of animation. The topics covered in this course are the starting point for any student interested in becoming a digital animator. Through the use of a computer, solid drawing and 3D 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.

3 Units
36 Lecture hours
72 Lab hours

**ANIM 110 Digital Character Animation**
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; ANIM 105
Transfers to: 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 (Multimedia, Illustration, Web Design, Game Design and Broadcast Media Production) and Industrial Design (Architectural, Automotive, Furniture, Clothing and Product Design). Students will be introduced to the concepts of storyboarding, body mechanics, acting for animators, pose to pose and straight ahead animation, control rigging, and animating mechanical subject matter.

4 Units
54 Lecture hours
54 Lab hours

**ANIM 120 Lighting and Texture**
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ANIM 101
Transfers to: CSU
This is an introductory course for all students interested in learning about lighting, rendering and texturing for 3D animation. Students focus on creating lighting scenarios and texture editing systems to generate and render surface details on a variety of 3D objects. This course is beneficial for all students in courses related to Graphic Arts (Multimedia, Illustration, Internet Web Design, Game Design and Film Production) and Industrial Design (Architectural, Automotive, Furniture, Clothing and Product Design).

4 Units
54 Lecture hours
54 Lab hours

**ANIM 130 Modeling for Games**
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ANIM 101
Transfers to: CSU
This is an introductory course in the creation of assets and environments for games. The course focuses on the creation of forms to be integrated into a game, and students will begin to grasp the design and digital sculpting of both organic and hard surface game assets. Aesthetics, construction, communication, light, form and quality of work are stressed. This course is beneficial for all students in courses related to Graphic Arts, Multimedia, Illustration, Internet Web Design, Game Design, Film Production, Industrial Design Architectural, Automotive, Furniture, Clothing and Product Design.

4 Units
54 Lecture hours
54 Lab hours

**ANIM 140 Animation Portfolio**
Prerequisite: ANIM 101; ANIM 110; ANIM 120
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: CSU
Students will select a specific area of design that they research and center a portfolio project around. The emphasis in this class is placed on helping the student improve the artistic merit of their work. The topics covered will help prepare digital artists to talk about and present their artwork in a professional manner. Students will create a digital portfolio for the web and print using programs such as Adobe Photoshop, Premiere, ZBrush, Autodesk Maya and the Unity game engine. This course is an excellent opportunity for students who are interested in developing and presenting a collection of work that will help them take the next step in their professional or academic career as a traditional/digital artist.

3 Units
36 Lecture hours
72 Lab hours

**ANTHROPOLOGY**
Division of Behavioral & Social Sciences

**ANTH 101 (C-ID ANTH 110) Introduction to Physical Anthropology**
Prerequisite: ENGL 030 or ENLA 034 or appropriate assessment; READ 021 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC 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
**ANTH 101H (C-ID ANTH 110)**  
**Introduction to Physical Anthropology Honors**  
Prerequisite: ENGL 101 with a grade of "C" or better; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment  
Transfers to: UC (credit limit*), CSU  
(*Students will receive credit from UC 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.  
3 Units  
54 Lecture hours

**ANTH 102H (C-ID ANTH 120)**  
**Introduction to Cultural Anthropology Honors**  
Prerequisite: ENGL 101 with a grade of "C" or better  
Advisory: READ 023 or appropriate assessment  
Transfers to: UC, CSU  
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 will include an extensive examination of cross-cultural diversity. Students will 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 will be the issue of how cultural anthropology can contribute to addressing problems important in the modern world. This course is designed for anthropology majors, those with an interest in anthropology, or anyone with a desire to further their understanding of human culture.  
3 Units  
54 Lecture hours

**ANTH 103 (C-ID ANTH 150)**  
**Introduction to Archaeology**  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment  
Transfers to: UC, CSU  
Archaeology is the study of past societies through the analysis of material remains. This general education course will survey the development of major cultural centers around the world including those found in Mesoamerica, South America, Egypt, China, Africa, and the Middle East. Examples drawn from many ancient sites will trace human societies from pre-agricultural communities, through the origins of agriculture, to the rise of major political and economic institutions. Students will learn how archaeologists discover information about the past, the history of the discipline, and the important issues confronting the field today. This course is designed for students who are interested in the field of archaeology or for students who plan to major in anthropology.  
3 Units  
54 Lecture hours

**ANTH 104**  
**Human Sexuality from a Cross-Cultural Perspective (Same as SOC 110)**  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment  
Transfers to: UC, CSU  
This course is designed for students with an interest 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.  
3 Units  
54 Lecture hours
healing in different cultures around the world. Socio-cultural, biological, and ecological perspectives will be 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. This course is intended for nursing and health care professionals seeking continuing education credit and students interested in the cultural aspects of healing and treating disease.

3 Units

54 Lecture hours

ANTH 125 Religion, Magic, Witchcraft, and the Supernatural
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students interested in learning about the diverse religious beliefs and practices around the world. An introduction to the anthropological study of religion will include 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 will be 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 will be included. In addition, concepts relating to death and the afterlife will be explored such as souls, ghosts, reincarnation, zombies, and others.

3 Units

54 Lecture hours

ARCH 115 Introduction to Residential Architecture: Drawing and Design
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 101 or two years of high school drafting
Transfers to: CSU
This introductory course is for any student interested in the field of Architectural Drawing and Design. The course is a requirement for both the A.S. degree and certificate in Architectural Design and Drawing, Engineering Design Drafting, and Civil Design Technology. The course includes the study of architectural graphic standards related to creating construction drawings, such as floor plans, exterior and interior elevations, site plans, foundation plans and details, building sections and construction framing details for one- or two-story residential structure. Emphasis is placed on symbology, conventions, and techniques to develop technical skills necessary for an entry-level architectural drafter and may lead to careers in environmental planning and design, architectural engineering, and construction technology. Construction methods, building codes, design factors, planning, and use of reference materials are discussed and applied. All construction documents will be developed using traditional board drafting methods and standards.

4 Units

45 Lecture hours

ARCH 225 Commercial Wood and Masonry Design and Construction
Prerequisite: ARCH 115
Advisory: ENGL 030 or ENLA 034 or appropriate assessment, READ 023 or appropriate assessment; 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 construction methods, building ordinances and codes. As a component of the course, students will complete construction documents for concrete block, steel, and wood commercial buildings and retail space. Emphasis is placed on effective space utilization, technical plans, elevations, aesthetics, handicap requirements, site utilization and development, traffic
ARCH 235
Architectural Design Studio
Prerequisite: ARCH 215
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is for students pursuing the A.S. degree in Architecture with the intent of transferring and continuing their study of architecture. Topics explored 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 will be expressed verbally and graphically using presentation drawings, isometrics and perspectives, conceptual models, renderings and photographs. Students will 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.
4 Units
54 Lecture hours
54 Lab hours

ARCH 236
Architecture Design Studio II
Prerequisite: ARCH 235
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This second-level Design Studio course builds upon the foundation of architectural design studio ARCH 235. This course presents additional design approaches to spatial and form definition of architectural program, urban and site planning, topographic, civil and environmental issues. Architectural design proposals and projects will be expressed verbally and graphically using presentation drawings, conceptual models, renderings and photographs. Students will enhance their design skills in a studio atmosphere, working to justify their design solutions.
4 Units
54 Lecture hours
54 Lab hours

ARCH 260
Advanced Architecture Using Revit and 3D Software
Prerequisite: ARCH 115; ENGT 150
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 101 or two years of high school drafting; ENGT
Transfers to: CSU
This course is for all students pursuing an A.S. Degree in Architecture (Transfer) and Architectural Design and Drafting and presents an intensive study of BIM (Building Information Modeling) applications as they relate to architecture. 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. High technology skills which are necessary to function as a designer or CADD Drafter are emphasized.
4 Units
54 Lecture hours
54 Lab hours

ARCH 261
Revit for Advanced BIM Architectural, Structural and MEP Applications
Prerequisite: ARCH 260
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
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. Course may be counted once towards the major and repeated three times to enhance student’s skills and proficiency levels, or repeated due to content change or software updates.
4 Units
54 Lecture hours
54 Lab hours

ARCH 262
Advanced MicroStation for CADD & BIM Applications (Same as ENGT 280)
Prerequisite: ENGT 170 with a grade of “C” or better, or verifiable work experience and proficiency in MicroStation XM or V8i
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
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, Drafting, Design and Computer Graphics. High technology skills which are necessary to function as a designer or CADD Drafter are emphasized.
4 Units
54 Lecture hours
54 Lab hours

ART
Division of Arts & Cultural Programs

ART 101
Introduction to the Fine Arts
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This lecture/lab course provides an introduction to the Fine Arts for the non-art major providing an opportunity to learn about the arts through a series lectures and hands-on projects within an art historical and conceptual framework. Project and topics will vary from term to term.
include drawing, painting, print-making, design, mixed media and sculpture.
3 Units
27 Lecture hours
81 Lab hours

ART 104
Art of the Ancient Americas
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
Art 104 is 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, students with an interest in American Studies and Latin American Studies.
3 Units
54 Lecture hours

ART 105 (C-ID ARTH 110)
Survey of Western Art: Prehistory through the Middle Ages
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*)Students will receive credit from UC 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 Art History or seeking to fulfill general education requirements in Fine Arts and Humanities.
3 Units
54 Lecture hours

ART 106 (C-ID ARTH 120)
Survey of Western Art: Renaissance to Contemporary
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*)Students will receive credit from UC 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 14th 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 20th and 21st centuries. 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.
3 Units
54 Lecture hours

ART 106H (C-ID ARTH 120)
Survey of Western Art: Renaissance to Contemporary Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*)Students will receive credit from UC 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 14th 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 20th and 21st centuries. This course is designed for those 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.
3 Units
54 Lecture hours

ART 107 (C-ID ARTH 130)
The Art of Asia
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 in Fine Arts and Humanities, as well as all Studio Art majors.
3 Units
54 Lecture hours

ART 108
The Art of Mexico
Advisory: READ 023 or appropriate assessment; ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: UC, CSU
This course is a survey of the art and architecture of Mexico including Pre-Columbian, Viceregal (Colonial) and Modern 19th and 20th centuries. Chicano/a 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 majors and Art History majors.
3 Units
54 Lecture hours

ART 109
Art of the Americas: Colonial to the Present
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course includes a study of the art and architecture of North, Central, and South America from the colonial period to the early 20th Century. This course is appropriate for students with an interest in American Studies, Latin American Studies, and/or those seeking to fulfill the general education requirements in Fine Arts and Humanities.
3 Units
54 Lecture hours

ART 110
Understanding Visual Art
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
ART 110 is a lecture course that provides the student with an intro-
ART 115
The Art of Film
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

ART 120
Two-Dimensional Design
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment
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 and fulfills a general education requirement in Art. 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 expressive creativity through lecture presentations, studio projects, and written assignments.
3 Units
36 Lecture hours
72 Lab hours

ART 121
Three-Dimensional Design
Advisory: READ 022 or appropriate assessment; ART 120
Transfers to: UC, CSU
This is a foundational, first semester course and is open to all students interested in the fundamentals of visual thinking as they apply to all three-dimensional media. It also fulfills a general education requirement in art. 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.
3 Units
36 Lecture hours
72 Lab hours

ART 124
Color Theory
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
36 Lecture hours
54 Lab hours

ART 130 (C-ID ARTS 110)
Freehand Drawing I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This is a first semester course for art and non-art majors interested in developing basic drawing skills. As an introduction to observational drawing and composition, students will 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 3-dimensional form and space into 2-dimensional drawings.
3 Units
36 Lecture hours
72 Lab hours

ART 131
Freehand Drawing II
Prerequisite: ART 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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...
**ART 135**

**Beginning Painting**

*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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 water-based oil painting media. Emphasis is on learning the techniques of painting, understanding the use of color, while strengthening observation and rendering skills. Students are advised to have some drawing skills before taking this class.

3 Units  
36 Lecture hours  
72 Lab hours

**ART 136**

**Intermediate Painting**

*Prerequisite: ART 130; ART 135  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
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.

3 Units  
36 Lecture hours  
72 Lab hours

**ART 140**

**Ceramics I**

*Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
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.

3 Units  
36 Lecture hours  
72 Lab hours

**ART 146**

**Introduction to Sculpture**

*Prerequisite: ART 121  
Advisory: ENGL 030 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ART 130  
Transfers to: CSU*

This course is suited for art majors transferring to a four-year college or any student interested in working in the arts. This course is an introduction to the arts of sculpture using basic sculptural techniques, history, and contemporary practices of handbuilding in the ceramics arts. Students will be exploring the social and historical elements of ceramic art.

3 Units  
36 Lecture hours  
72 Lab hours

**ART 141**

**Ceramics II**

*Prerequisite: ART 140  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
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 making a test glaze. Students will be exploring contemporary artistic practice and the social and historical elements of ceramic art.

3 Units  
36 Lecture hours  
72 Lab hours

**ART 150**

**Beginning Printmaking**

*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ART 121; 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).

3 Units  
36 Lecture hours  
72 Lab hours

**ART 151**

**Intermediate Printmaking**

*Prerequisite: ART 150  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: 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 as well as serigraph printing. While stressing creativity and expression students will also learn the practice of creating an edition.

3 Units  
36 Lecture hours  
72 Lab hours

**ART 160**

**Rendering and Illustration**

*Advisory: READ 022 or appropriate assessment; ART 130  
Transfers to: 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, and definition.
while strengthening observation and rendering skills.

3 Units
36 Lecture hours
72 Lab hours

ART 161
Advanced Rendering and Illustration
Prerequisite: ART 160
Advisory: READ 022 or appropriate assessment; 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.

3 Units
36 Lecture hours
72 Lab hours

ART 164
Graphic Design (Adobe Illustrator)
Advisory: READ 022 or appropriate assessment; ART 120
Transfers to: CSU
Designed for the student interested in a degree in commercial art or those interested in 2 dimensional design and layout applications employed as tools by computer graphic artists, this course is an exploration of graphic design using the Adobe Illustrator computer based design software. Topics include typography usage, inclusion of photo-derived images, illustration techniques, page layout design, as well as current methods/styles employed by graphic artists. This course includes portfolio building with an emphasis on professional standards.

3 Units
36 Lecture hours
72 Lab hours

ART 165
Graphic Design (Advanced Adobe Illustrator)
Prerequisite: ART 164
Advisory: READ 022 or appropriate assessment; ART 120
Transfers to: CSU
Intended for the student interested in a degree in commercial art or those interested in 2 dimensional design and layout applications employed as tools by computer graphic artists, this course is an advanced exploration of graphic design using the Adobe Illustrator computer based design software. Topics include concept driven projects exploring illustration and rendering techniques, advanced compositing methods using various sources, as well as current methods/styles employed by graphic artists. This course includes portfolio building with an emphasis on professional standards.

3 Units
36 Lecture hours
72 Lab hours

ART 170
Introduction to Digital Painting
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ART 120; ART 130; ART 135
Transfers to: UC, CSU
This course is designed for students majoring in the Visual Arts including Fine Arts, Illustration, Animation, Graphic Art 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.

3 Units
27 Lecture hours
81 Lab hours

ART 172
Desk Top Publishing (Adobe InDesign)
Advisory: READ 022 or appropriate assessment
Transfers to: CSU
This course is intended for the student interested in commercial art, focusing on computer generated multi page layouts. Page composition and graphics are explored using Adobe InDesign software with an emphasis on design and the creative use of typography, included in this course is a discussion of output possibilities and pre-press considerations.

3 Units
36 Lecture hours
72 Lab hours

ART 175
Computer Graphics
Advisory: READ 022 or appropriate assessment
Transfers to: CSU
This course is for the student interested in a degree in commercial art or any student interested in 2 dimensional paint and 3 dimensional modeling applications employed as tools by computer graphic artists. Topics covered will include the exploration of basic paint techniques as well as basic modeling, mapping, rendering and animation techniques as they relate to page and web design.

3 Units
36 Lecture hours
72 Lab hours

ART 178
Introduction to Digital Imaging (Adobe Photoshop)
Advisory: READ 022 or appropriate assessment
Transfers to: CSU
This course is for the student interested in a degree in commercial art or any student interested in digital imaging. The focus of the course is computer based image-editing software and its use as a tool in the creation of high quality digital imagery. Also provided is an overview of programs such as Adobe Photoshop and other related graphics programs employed by digital imaging artists with an emphasis on photography as the primary source of the final images. Included in this course will be the discussion of aesthetic decisions as they relate to image composition. The ethical and legal implications of image manipulation will be discussed as well as various presentation possibilities.

3 Units
36 Lecture hours
72 Lab hours

ART 180
Art Gallery Display Design
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is appropriate for all students interested in art, art exhibitions, museum studies, and cultural studies and is a combination studio and lecture course that provides students with creative experience in exhibition design and gallery installation. Topics include exhibition space planning, principles of color and design, art exhibition construction and lighting, and proper care and handling of art objects. Students are also given an introduction to the basic principles of art curating and gallery management. This course may be taken once and repeated three times for credit.

2 Units
18 Lecture hours
54 Lab hours
ART 185
Art Studio
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.

1 Unit
72 Lab hours

ART 230 (C-ID ARTS 200)
Beginning Life Drawing
Prerequisite: ART 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
36 Lecture hours
72 Lab hours

ART 231
Intermediate Life Drawing
Prerequisite: ART 230
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
36 Lecture hours
72 Lab hours

ART 232
Advanced Life Drawing
Prerequisite: ART 231 or ANIM 260
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 ART 231 or ANIM 260 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.

3 Units
36 Lecture hours
72 Lab hours

ART 233
Freehand Drawing III
Prerequisite: ART 131
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is a third semester course in drawing and composition. More complex problems and a broader range of media including color will be utilized. Emphasis is on advancing observational skills and conceptual development through a range of subject matter, technical refinement and thematic development. Exploration of individual creative interpretation, process and intent in order to deepen the student's studio practice and investigation is stressed.

3 Units
36 Lecture hours
72 Lab hours

ART 234
Watercolor Painting
Prerequisite: ART 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment
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.

3 Units
36 Lecture hours
72 Lab hours

ART 235
Advanced Painting I
Prerequisite: ART 136
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This is a first 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.

3 Units
36 Lecture hours
72 Lab hours

ART 236
Advanced Painting II
Prerequisite: ART 235
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
36 Lecture hours
72 Lab hours

ART 242
Advanced Ceramics
Prerequisite: ART 141
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
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 investigate 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.

3 Units
36 Lecture hours
72 Lab hours

ART 252
Advanced Printmaking
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: 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. Course content differs each time it is offered so it may be taken once and repeated three times for credit.

3 Units
36 Lecture hours
72 Lab hours

ART 290
Cooperative Work Experience/Internship for Visual Arts Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 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 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
1 to 4 Units
3 Lecture hours
60 to 300 hours

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.

1 to 3 Units
54 to 216 Lab hours

ASSOCIATE DEGREE NURSING
Division of Health Science & Nursing

ADN 075
LVN Transition into the Associate Degree Nursing Program
Prerequisite: Acceptance into Nursing Program and Current LVN License
Advisory: READ 023 or appropriate assessment; MATH 070 or MATH 070D or MATH 073 or appropriate assessment
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.
2.5 Units
36 Lecture hours
27 Lab hours

ADN 150
Medical/Surgical Nursing I
Prerequisite: ADN 151, BIOL 222, and ENGL 101 all with a grade of “C” or better; ADN 151L with a “Pass”
Corequisite: ADN 150L and ADN 154
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
This course focuses on the application of the nursing process in caring for patients with disturbances in the digestive and renal systems, fluid and electrolyte status and acid/base balance, endocrine, cardiovascular and respiratory systems. The pathophysiology of disease processes, as well as medical and nursing interventions, is 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 ADN 150 and ADN 150L, and pass both courses together. They cannot be taken individually for credit.
4 Units
72 Lecture hours

ADN 150L
Medical/Surgical Nursing I Lab
Prerequisite: ADN 151, BIOL 222, and ENGL 101 all with a grade of “C” or better; ADN 151L with a “Pass”
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 the digestive and renal systems, fluid and electrolyte status and acid/base balance, endocrine, cardiovascular and respiratory systems. The pathophysiology of disease processes, as well as medical and nursing interventions, is discussed. The student 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 ADN 150 and ADN 150L, and pass both courses together. They cannot be taken individually for credit.
4 Units
216 Lab hours

ADN 151
Clinical Nursing Concepts
Prerequisite: BIOL 125, BIOL 222, BIOL 226 and ENGL 101 all with a grade of “C” or better
Corequisite: ADN 151L
Advisory: READ 023 or appropriate assessment; MATH 070 or MATH 070D or MATH 073 or appropriate assessment
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.
2 Units
36 Lecture hours

ADN 151L
Clinical Nursing Concepts Lab
Prerequisite: BIOL 125, BIOL 222, BIOL 226 and ENGL 101 all with a grade of “C” or better
Corequisite: ADN 151
Advisory: READ 023 or appropriate assessment; MATH 070 or MATH 070D or MATH 073 or appropriate assessment
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 ADN 151 and ADN 151L, and pass both courses together. They cannot be taken individually for credit.
2 Units
108 Lab hours

ADN 154
Pharmacology
Prerequisite: ADN 151 with a grade of “C” or better
Corequisite: ADN 150
Advisory: READ 023 or appropriate assessment
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.
2 Units
27 Lecture hours
27 Lab hours

ADN 155
Nursing Process: Childbearing Family/ Women’s Health
Prerequisite: ADN 150, ADN 151, and ADN 154 all with a grade of “C” or better; ADN 150L and ADN 151L both with a “Pass”
Corequisite: ADN 155L
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for the Associate Degree Nursing student. It focuses on the biological, interpersonal/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 ADN 155 and ADN 155L, and pass both courses together. They cannot be taken individually for credit.
2 Units
36 Lecture hours

ADN 155L
Nursing Process: Childbearing Family/ Women’s Health Lab
Prerequisite: ADN 150, ADN 151, and ADN 154 all with a grade of “C” or better; ADN 150L and ADN 151L both with a “Pass”
Corequisite: ADN 155
Advisory: READ 023 or appropriate assessment
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 pathophysiologicals associated with childbearing and the newborn. Students will 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. The students will be able to apply the theoretical concepts learned in theory 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 ADN 155 and ADN 155L, and pass both courses together. They cannot be taken individually for credit.
2 Units
108 Lab hours

ADN 156
Nursing Process Applied to the Care of Children
Prerequisite: ADN 150 and ADN 154 both with a grade of “C” or better; ADN 150L with a “Pass”
Corequisite: ADN 156
Advisory: READ 023 or appropriate assessment
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 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. 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 156 and ADN 156L, and pass both courses together. They cannot be taken individually for credit.
2 Units
36 Lecture hours

ADN 156L
Nursing Process Applied to the Care of Children Lab
Prerequisite: ADN 150 and ADN 154 both with a grade of “C” or better; ADN 150L with a “Pass”
Corequisite: ADN 156
Advisory: READ 023 or appropriate assessment
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 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. 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 156 and ADN 156L, and pass both courses together. They cannot be taken individually for credit.
2 Units
108 Lab hours

ADN 250
Advanced Pharmacology
Prerequisite: ADN 155 and ADN 156 (for generic ADN students) with a grade “C” or better; ADN 075 (for LVN to ADN students) with a grade “C” or better
Advisory: ENGL 101; READ 023 or appropriate assessment; MATH 070 or MATH 070D or MATH 073 or appropriate assessment
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.

1 Unit

18 Lecture hours

**ADN 251 Medical/Surgical Nursing II**

Prerequisite: ADN 155 and ADN 156 (for generic ADN students) with minimum grade of “C” or better; ADN 155L and ADN 156L both with a “Pass” (for generic ADN students); ADN 075 (for LVN to ADN students) with a grade of “C” or better

Corequisite: ADN 252 and ADN 252L (students who have an active Psychiatric Technician license are exempt from the ADN 252 and ADN 252L corequisite); ADN 250 and ADN 251L

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course focuses on the aging process as it relates to normal aging, 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 requires that students must be concurrently enrolled in both ADN 251 and ADN 251L, and pass both courses together. They cannot be taken individually for credit.

2.5 Units

136 Lab hours

**ADN 252 Psychiatric/Mental Health Nursing**

Prerequisite: ADN 155 and ADN 156 both with a grade of “C” or better; ADN 155L and ADN 156L both with a grade of "Pass"; OR ADN 075 and active California Vocational Nursing License

Corequisite: ADN 252L

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This course focuses on the 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, interpersonal 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 ADN 252 and ADN 252L, and pass both courses together. They cannot be taken individually for credit.

2 Units

36 Lecture hours

**ADN 253 Medical/Surgical Nursing III**

Prerequisite: ADN 250, ADN 251 and ADN 252 all with a grade of “C” or better; ADN 250L, ADN 251L and ADN 252L all with a “Pass”

Corequisite: ADN 253L

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. 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.

2.5 Units

136 Lab hours

**ADN 252L Psychiatric/Mental Health Nursing Lab**

Prerequisite: ADN 155 and ADN 156 both with a grade of “C” or better; ADN 155L and ADN 156L both with a “Pass”; 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 interven-
ADN 254
Leadership and Management in Nursing
Prerequisite: ADN 253 with grade of “C” or better; ADN 253L with a “Pass”
Corequisite: ADN 254L
Transfers to: CSU
This course focuses on principles of leadership and management as well as current trends in nursing practice. The legal and ethical responsibilities of the professional nurse will be discussed as well as the specific skills and attributes needed as students’ transition to nursing practice as a member of a team. Methods to maintain professional competence and advancement in the profession will be explored. 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 254 and ADN 254L, and pass both courses together. They cannot be taken individually for credit.
1.5 Units
27 Lecture hours

ADN 254L
Leadership and Management in Nursing Lab
Prerequisite: ADN 253 with a grade of “C” or better; ADN 253L with a “Pass”
Corequisite: ADN 254
Transfers to: CSU
This course focuses on the application of 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 must be concurrently enrolled in both ADN 254 and ADN 254L, and pass both courses together. They cannot be taken individually for credit.
2.5 Units
135 Lab hours

ADN 290
Cooperative Work Experience/Internship for Nursing Related Fields
Prerequisite: ADN 154, ADN 155, ADN 156 or equivalent
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course supports and reinforces on-the-job training in health care institutions 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 second year nursing students currently enrolled in Rio Hondo’s nursing program and have completed 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
1 to 4 Units
3 Lecture hours
60 to 300 hours

ASTRONOMY
Division of Mathematics & Sciences

ASTR 110
General Astronomy
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(“Students will receive credit from UC for only one of the following courses: ASTR 110 or ASTR 110H"
This course is designed to develop an appreciation of astronomy and a broad cosmic perspective. The emphasis of the course is on the current state of knowledge of 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 will be explored. This course is designed for those with an interest in astronomy or anyone who desires to expand their cosmic horizons.
3 Units
54 Lecture hours

ASTR 110H
General Astronomy Honors
Prerequisite: ENGL 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(“Students will receive credit from UC for only one of the following courses: ASTR 110 or ASTR 110H"
This course is designed to develop an appreciation of astronomy and a broad cosmic perspective. The emphasis of the course is on the current state of knowledge of 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 will be explored. This course is designed for those with an interest in astronomy or anyone who desires to expand their cosmic horizons.
3 Units
54 Lecture hours

ASTR 112
Observational Astronomy
Prerequisite/Corequisite: ASTR 110 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(“Students will receive credit from UC for only one of the following courses: ASTR 112 or ASTR 114"
This course is designed to acquaint the student with the methods, techniques, and tools of the astronomer. Indoor labs will demonstrate classical methods and techniques of science. Students will learn the critical thinking processes needed to acquire and analyze scientific data. Students will become familiar with visible objects including constellations, planets, star clusters, galaxies, meteor, and the phases of the moon. Students will learn to locate objects visually and use astronomical coordinate systems. The development of skill in the operation of optical telescopes is emphasized. This course is designed for those with an interest in learning night skies and the tools astronomers use to explore the cosmos. Observatory facilities will be utilized often, weather permitting.
1 Unit
54 Lab hours

ASTR 114
Observational Astronomy
Prerequisite/Corequisite: ASTR 110 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(“Students will receive credit from UC for only one of the following courses: ASTR 112 or ASTR 114"
This course is designed to acquaint the student with the methods, techniques, and tools of the astronomer. Indoor labs will demonstrate classical methods and techniques of science. Students will learn the critical thinking processes needed to acquire and analyze scientific data. Students will become familiar with naked eye objects visible during the fall/winter [112], spring/summer [114] including constellations, planets, star clusters, galaxies, meteors, and the phases of the moon. Students will learn to locate objects visually and use astronomical coordinate systems. The
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.

1 Unit
72 Lab hours

AUTB 032
Auto Body and Fender Repair
Advisory: READ 022 or appropriate assessment;

This is an introductory course designed to survey the field of Auto Body Repair stressing an overall understanding of the techniques, materials, and fundamentals currently used in this area. The course is designed for students having no previous experience who desire a broad overview and basic understanding as a part of their general technical background or who may be interested in further specific education in this field. Sheet metal repairing, refinishing, tension devices, special materials handling, and painting are emphasized.

3 Units
36 Lecture hours
54 Lab hours

AUTB 075
Collision Estimating
Advisory: READ 022 or appropriate assessment; AUTB 101

This course provides a foundation in the basic principles and techniques of automotive collision estimating using the latest revisions of CCC’s Pathways Collision Estimating Software. The course is designed to prepare students to enter the field of auto collision estimating with major emphasis placed on diagnosis of damage, writing a damage report, and computer assisted estimates.

3 Units
54 Lab hours

AUTB 076
CCC Pathways Computer Collision Estimating
Advisory: READ 023 or appropriate assessment; AUTB 075

This course provides comprehensive training in the use of Certified Col-lateral Corporation (CCC) Pathways Collision Estimating software. Special emphasis will be placed on setting up profiles, creating work files, estimates involving collision and compe-n
dive losses, creating supplements, storing files, printing estimates, reports, and parts lists. This course is designed for those students who work at body shops or insurance companies.

2.5 Units
36 Lecture hours
27 Lab hours

AUTB 078
Lab and Field Collision Estimating
Advisory: READ 023 or appropriate assessment; AUTB 075

This is an advanced course in auto collision estimating and is designed to enhance computer collision estimating skills. Students will gain experience in the estimation process through the use of estimating software and vehicle inspections. Topics addressed will include vehicle damage list creation, the production of effective computerized estimates of repairs, and differentiating between included and not included operations. This course is suitable for those students who work with and would like to further their understanding of commonly used computerized collision estimating systems.

1 Unit
9 Lecture hours
18 Lab hours
18 Other hours

AUTB 080
Automotive Painting I
Advisory: READ 023 or appropriate assessment;

This is an introductory course in the fundamental aspects of automotive painting. The course is a study in the use of spray equipment and special tools used in automotive painting. Related technical information is presented concerning different types of paint products and finishes, painting safety, hazardous waste handling and disposal, and state regulations and rules used in the automotive paint industry.

3 Units
18 Lecture hours
108 Lab hours

AUTB 085
Automotive Painting II
Prerequisite: AUTB 080

This is an advanced, industry-based course in automotive painting procedures and special effect materials used in painting. Practical experience is provided in the use of spray equipment and special tools used in automotive painting. Related technical information is presented concerning different types of custom paints and finishes, painting safety, and paint problem solving techniques.

3 Units
18 Lecture hours
108 Lab hours
AUTB 090
Advanced Automotive Collision Repair
Advisory: READ 023 or appropriate assessment; AUTB 130
This course is designed for the advancement of skills in the art of automotive collision repair, painting, customizing, and the repair of plastics. Major emphasis is placed on hand and power tool use, theory of design, complete repair projects and practicing repair skills for employment opportunities.
2 Units
108 Lab hours

AUTB 093
Paintless Dent Removal
Advisory: READ 023 or appropriate assessment
This course provides an overview of painless dent removal methods and the techniques used to identify damage and repair vehicles in the auto collision industry. Lecture, discussion, and examination of specific damage and tool usage will be used to develop student understanding and skills for locating and repairing minor damage without the need to repaint. Demonstrations on body panels and vehicles will provide the student with an introduction to the kinds of damage that can be addressed using paintless dent removal. This course is suitable for those interested in the field of auto collision and paintless dent removal.
4 Units
36 Lecture hours
108 Lab hours

AUTB 096
Collision Repair Analysis
Advisory: READ 023 or appropriate assessment; AUTB 101
This course provides an overview of the investigative methods and techniques used to identify fraudulent repairs in the auto collision industry. Lecture, discussion, and examination of actual vehicles will be used to develop student understanding of and skill in detecting incompetent or fraudulent repairs. The class consists of demonstrations on actual vehicles that will provide a sampling of incompetent or fraudulent repairs. This course is suitable for those interested in the field of auto collision fraud investigation.
1 Unit
9 Lecture hours
27 Lab hours

AUTB 099
Auto Collision Mechanical and Electronic Components
Advisory: READ 023 or appropriate assessment; AUTB 101
This course provides a foundation in the basic principles and techniques of repair and replacement of mechanical and electronic components involved in collision. The course is designed for students with previous auto body experience and those who desire a broader overview and basic understanding of components related to auto collision repair.
4 Units
54 Lecture hours
54 Lab hours

AUTB 101
Introduction to Automotive Collision Repair and Painting
Advisory: READ 023 or appropriate assessment
Transfer to: CSU
This is an introductory course in the fundamental aspects of automotive collision repair and is designed for anyone with an interest in the subject matter. Major emphasis is on unitized construction, high strength steels, metal straightening and finishing, paint feathering and priming. Related technical information is presented concerning power and hand tools and their use, automobile designs and nomenclature.
4 Units
36 Lecture hours
108 Lab hours

AUTB 110
Auto Body and Frame Straightening
Prerequisite: AUTB 101
Advisory: READ 023 or appropriate assessment
Transfer to: CSU
This course is designed to provide the student with the theory and basic skills required to repair frame and unibody damage. Practical problems and new procedures are introduced in the process of correcting misalignment of frame and body structures, caused by collision damage, including frame straightening, body alignment, sectioning, door and panel repair, and major collision repair.
4 Units
54 Lecture hours
54 Lab hours

AUTB 125
Automotive Collision Repair and Painting
Prerequisite: AUTB 101
Advisory: READ 023 or appropriate assessment
Transfer to: CSU
This course is designed to further the student’s knowledge of automotive collision repair and painting. Major emphasis is placed on straightening minor and major collision damage, replacement of parts, quarter panel and door replacement and sectioning, plastic repair, spot painting and overall painting.
4 Units
36 Lecture hours
108 Lab hours

AUTB 130
Auto Body and Frame Straightening
Prerequisite: AUTB 101
Advisory: READ 023 or appropriate assessment
Transfer to: CSU
This course is designed for those interested in the field of auto collision and paintless dent removal. This course is suitable for those interested in 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.
4 Units
72 Lecture hours

AUTO 045
Honda/Acura Express Service
Corequisite: AUTO 140 and AUTO 201
Prerequisite: AUTO 102 and AUTO 103
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 distant 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.
4 Units
72 Lecture hours

AUTO 051
Honda/Acura Chassis Electrical Systems
Corequisite: AUTO 150 and AUTO 160
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course provides instruction relating to specific electrical circuits pertaining to Honda/Acura vehicles. The course features topics relating to: interior electrical circuits, body networking, occupant comfort amenities and navigation systems. Students will engage in activities using Honda Diagnostic System (HDS) functional test modes, validate voltage values from components and circuits, then compare and contrast those values with circuit diagrams 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).
Engine Repair and Chassis Electrical
AUTO 046
Honda/Acura Automatic Transmission Systems
Corequisite: AUTO 125
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 required 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.
4 Units
72 Lecture hours

AUTO 065
Smog Technician Diagnostic and Repair Procedures
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
45 Lecture hours

AUTO 101
Introduction to Automotive Service and Repair: Underhood Service
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
45 Lecture hours

AUTO 102
Introduction to Honda/Acura Service and Repair
Advisory: READ 023 or appropriate assessment
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.
3 Units
45 Lecture hours

AUTO 103
Introduction to Automotive Service and Repair: Undercar Service
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
45 Lecture hours

AUTO 106
Automotive Electrical Tools and Diagnostic Procedures
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This is an introductory course designed to provide the student with the fundamentals of the electrical systems certificate of achievement and is in partial fulfillment of the Honda PACT Program AS degree.
4 Units
72 Lecture hours
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.

3 Units
45 Lecture hours
27 Lab hours

AUTO 107
Introduction to Automotive Light Service
Prerequisite: AUTO 101, AUTO 103, and AUTO 106
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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).

3 Units
45 Lecture hours
27 Lab hours

AUTO 108
Introduction to Automotive Diesel Service & Operation
Prerequisite: AUTO 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This beginning course introduces students to the field of diesel powered passenger cars theory of operation and general service procedures. This course covers the principals of operation, fuel systems, electrical, exhaust systems, and controls. This course is for the beginning student, general technicians and emission control (smog) technicians interested in automotive diesel technology.

3 Units
54 Lecture hours

AUTO 110
Introduction to Engine Diagnosis and Tune-Up
Prerequisite: AUTO 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This is an introductory study of automotive diagnosis and tune-up procedures as they pertain to the function and control of the engine, fuel, ignition, starting, and charging systems. This course is first in a series of Engine Diagnosis and Tune-Up classes, and is designed for the student who wants to enter the field of Tune-Up, Drivability, and Emissions.

3 Units
45 Lecture hours
27 Lab hours

AUTO 115
Computerized Engine Controls and Diagnostics
Prerequisite: AUTO 106
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to provide the student with an introduction to the ASE L1 Advanced Engine Performance “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.

3 Units
54 Lecture hours

AUTO 118
Light Duty Vehicle Diesel Fuel Systems & Emission Control Diagnostics
Prerequisite: AUTO 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to strengthen existing student skills in the field of diagnosing Light Duty Vehicle diesel fuel systems and related drive ability and emission control concerns. This course is also for emission control (smog) technicians desiring to take and pass the ASE A9 Light Vehicle Diesel Engines certification exam covering advanced auto/truck diesel technology. Course content includes an advanced study emphasizing the latest theories and principles and troubleshooting procedures of late-model vehicle diesel fuel systems. Emphasis will be placed on advanced diesel engine diagnosis and repair, and diesel engine air, fuel, and emission systems diagnosis and repair. The use of a variety of modern diagnostic tools and equipment is included. Students, with permission from the Division, may re-enroll only one time for certification or licensure standards.

3 Units
45 Lecture hours
27 Lab hours

AUTO 120
Engine Tune-Up/Performance
Prerequisite: AUTO 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AUTO 110; AUTO 115
Transfers to: CSU
This course is designed to strengthen the student knowledge of modern automotive fuel and ignition systems and the functional knowledge of system components. The class is structured to provide ‘hands-on’ diagnostic experience in system failure analysis, troubleshooting of components utilizing modern service repair techniques. Emphasis is placed on electronic diagnosis using Scan-Tools, DVOM, Digital Volt Ohm Meters, Lab Scopes, Exhaust Analyzers, information retrieval systems and diagnostic flow charts.

4 Units
54 Lecture hours
54 Lab hours

AUTO 125
Power Train System Service and Transmission Diagnostics
Prerequisite: AUTO 102 or AUTO 103
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

4 Units
54 Lecture hours
54 Lab hours

AUTO 128 Fuel Injection Systems I
Prerequisite: AUTO 106
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AUTO 110
Transfers to: CSU
This course is designed to provide the student with the fundamentals of pre-OBD-II Engine Management Systems related to fuel injected vehicles. Students will learn how to use specific tools and equipment, and how to safely perform basic repair and maintenance operations. Emphasis will be placed upon the history and evolution of fuel injection and engine management systems used on vehicles from the late 1960’s to 1995. Service Information Systems, Electrical Circuits, Symbols & Circuit Diagrams, and other related topics will be discussed. This course requires the student to have a solid background regarding the technical knowledge of basic Gasoline Engine Fuel and Ignition Systems as a prerequisite, and is required for the Automotive Electrical, Fuel & Safety Systems Certificate Program.
3 Units
54 Lecture hours

AUTO 130 Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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 of successfully completing 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, 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.
3 Units
45 Lecture hours
27 Lab hours

AUTO 135 Level-II Smog Technician Training Course: Smog Check Inspection Procedures
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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 of successfully completing 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, calibration of testing equipment, as well as performing complete smog checks 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.
3 Units
45 Lecture hours
27 Lab hours

AUTO 140 Body and Chassis Electrical Systems
Prerequisite: AUTO 102 or AUTO 065
Advisory: READ 023 or appropriate assessment; AUTO 110
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.
4 Units
54 Lecture hours
54 Lab hours

AUTO 141 Alternative Fuels I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: CSU
This is an introductory course on alternative fuels as they pertain to use in modern vehicles. Various alternative fuels will be compared, such as Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Hydrogen, Bio-Fuel, LPG, etc. The theory of operation, system components, and the safe handling of these fuels are included. Students will develop skills in the area of vehicle preparation, system component identification, and repair procedures related to vehicles using alternative fuels. This course is designed for students and technicians working on stationary vehicles.
3 Units
54 Lecture hours
54 Lab hours
power engines, transportation and clean fuels seeking to improve skills related to the maintenance and repair of gaseous fuels. This course provides students with ASE F1 or H1 test prep information.

3 Units
45 Lecture hours
27 Lab hours

AUTO 142
Alternative Fuels II
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; AUTO 141
Transfers to: CSU

This is the second course on alternative fuel systems used to power modern vehicles. Emphasis will be placed on installation, diagnostic procedures, laptop computers, and computer monitoring of Compressed Natural gas (CNG), and Liquid Natural Gas (LNG) systems. The application of other alternative fuels, such as Hydrogen, LPG, Bio Fuels, etc., will also be covered. Students will also develop skills that interface with modern technology computer based automotive electronic and network controls. SAE and CAN network control systems will also be covered. This course is designed for the experienced technician working in the field of stationary power engines, transportation and clean energy fuels seeking to improve skills related to the installation and repair of gaseous fuels.

4 Units
54 Lecture hours
54 Lab hours

AUTO 147
Introduction to Hybrid and Electric Vehicle Technology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; AUTO 140
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. Physics of battery storage, Hybrid generation systems, Electric vehicle applications and their integrated systems from many manufactures will be discussed. This course is suitable for student’s entering into alternative fuels or power generation and energy technology field. This course is a required course for the Alternative Fuels Certificate and Degree.

3 Units
45 Lecture hours
27 Lab hours

AUTO 148
Vehicle Safety, Comfort and Convenience Systems
Prerequisite: AUTO 106
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfer to: CSU

This course is designed to provide the student with the fundamentals of Automotive Safety, Comfort and Convenience Systems related to the modern automobile. Students will learn how to use specific tools and equipment, and how to safely perform basic repair and maintenance operations. Emphasis will be placed upon the SRS Airbag Restraint Systems, ABS and Traction Control Systems, AC and Heating Systems, Lighting Systems, and Theft-deterrent Systems. Service Information Systems, Electrical Circuits, Symbols & Circuit Diagrams, and other related topics will be discussed. This course requires the student to have a solid background regarding the technical knowledge of basic Automotive Electrical and Electronic Systems as a suggested prerequisite, and is required for the Automotive Electrical, Fuel & Safety Systems Certificate Program.

3 Units
54 Lecture hours

AUTO 150
Engine Electrical Systems
Prerequisite: AUTO 102 or AUTO 106
Advisory: AUTO 115
Transfer to: CSU

This course discusses the modern automobile’s electrical system as related to the engine and various engine related systems. The theory of operation, operational characteristics and methods of problem diagnosis and repair for the following systems are included; electronic ignition systems, electronic fuel injection, engine management, emission control, charging, cooling and starting. This course prepares the student for the (ASE) Automotive Service Excellence; A-8 Engine Performance Exam and is intended for Automotive majors. Students with permission from the Division may re-enroll only one time for certification and licensure standards.

4 Units
54 Lecture hours

AUTO 155
Automotive On-Board Diagnostics Generations One and Two (OBD I and OBD II)
Prerequisite: AUTO 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AUTO 106; AUTO 120
Transfer to: CSU

This course will provide students with the fundamentals of Automotive On-Board Diagnostics, Generations One and Two (OBD-I and OBD-II). Students will discuss the history, regulations, vocabulary, and diagnostic strategies of OBD-I and OBD-II equipped vehicles. Topics of discussion include Safety, Service Information Systems, Electrical Circuits, Symbols & Circuit Diagrams, and other Fuel & Ignition-related subjects. This course requires the student to have a solid background regarding the technical knowledge of basic Gasoline Engine Fuel and Ignition Systems. This course is designed for all automotive majors with a background in advanced emission repair.

3 Units
45 Lecture hours
27 Lab hours

AUTO 157
Automotive Specialized Electronics Training
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AUTO 106
Transfer 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.

4 Units
72 Lecture hours

AUTO 160
Upper End Engine Rebuilding and Machining
Prerequisite: AUTO 101 or AUTO 102
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfer 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
Advanced Automotive Diagnostic Procedures and 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.

3 Units
45 Lecture hours
27 Lab hours

AUTO 200 Suspension, Steering, and Alignment Service
Prerequisite: AUTO 103 Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 Brake service. Students with permission from the Division may re-enroll only one time for certification or licensure standards.

4 Units
54 Lecture hours
54 Lab hours

AUTO 210 Automotive Brake Systems
Prerequisite: AUTO 103 Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course discusses modern disc and drum brake 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.

4 Units
54 Lecture hours
54 Lab hours

AUTO 211 Antilock Brakes/Traction Control Systems
Prerequisite: AUTO 103 Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 stability assist (VSA), including diagnosis, operation and maintenance of ABS/TCS/VSA. The course will include the use of scanners, DVOM meters and labscopes in diagnosis of various AB5/TCS/VSA systems; both 2 wheel and 4 wheel systems will be covered.

3 Units
54 Lecture hours
AUTO 220
Manual Drive Trains and Axles
Prerequisite: AUTO 103
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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.
4 Units
54 Lecture hours
54 Lab hours

AUTO 230
Automatic Transmission/Transaxle
Prerequisite: AUTO 103
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AUTO 125
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 reenroll only one time for certification and licensure standards.
4 Units
54 Lecture hours
54 Lab hours

AUTO 240
Heating and Air Conditioning
Prerequisite: AUTO 102 or AUTO 103
Advisory: ENGL 035 or ENLA 100 or appropriate assessment, READ 023 or appropriate assessment
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 enroll in this course only one time for certification or licensure standards.
4 Units
54 Lecture hours
54 Lab hours

AUTO 256
Automotive Scantools and Vehicle Network Systems
Prerequisite: AUTO 106
Advisory: READ 023 or appropriate assessment; AUTO 150
Transfers to: CSU
This course is designed to enhance the student’s electrical and electronic diagnostic skills in both the automotive powertrain management spectrum. This course emphasizes an in-depth study of various automotive computer systems, vehicle communication network systems, as well as the latest Scantools available to help aid in diagnostics of these systems. Course content includes advanced electrical and electronic systems theory and diagnosis, OBD-I and OBD-II engine and transmission management systems diagnostics, and basic vehicle network systems diagnostics. The majority of the course content focuses on proper Scantool usage, including proper tool selection, updating software, identifying and using data streams, and understanding the numerous serial data protocols, including CAN data communications.
3 Units
54 Lecture hours

AUTO 260
Advanced Hybrid/Electric Vehicle
Prerequisite: AUTO 147
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; AUTO 157
Transfer 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: 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, Level I, Level II, Level II battery charging and fuel cell technology. Dynamics of battery storage, Hybrid generation systems, Electric vehicle applications and their integrated systems from many manufacturers will be discussed. High-voltage battery management systems including active/passive design to charging systems will be primary focus of this course. This course is for student’s working in the Hybrid and Electric vehicle, power engineering and technology field.
4 Units
54 Lecture hours
54 Lab hours

AUTO 290
Cooperative Work Experience/Internship for Automotive Technology
Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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
1 to 4 Units
3 Lecture hours
60 to 300 hours

BIOLOGY
Division of Mathematics & Sciences
BIOL 101
General Biology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: BIOL 101 or 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.

4 Units
54 Lecture hours
54 Lab hours

BIOL 105
Human Biology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course will provide an introduction to the basic principles, structures, functions and biological processes of the human body. This lecture only course will emphasize a scientific viewpoint 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’s target audience consists of those students pursuing a liberal arts education who are interested in furthering their own knowledge of human biology.

3 Units
54 Lecture hours

BIOL 111
Marine Biology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
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.

3 Units
54 Lecture hours

BIOL 111L
Marine Biology Laboratory
Prerequisite/Corequisite: BIOL 111
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
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.

1 Unit
54 Lab hours

BIOL 112
Outdoor Biology
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
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.

3 Units
36 Lecture hours
54 Lab hours

BIOL 120
Environmental Biology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: UC, CSU
Utilizing basic biological concepts, an interdisciplinary approach is used to address environmental challenges. Topics addressed may include ecosystem characteristics and functions, population dynamics, energy and material resource use, pollution, and alternative energy sources. Students in many disciplines will benefit from this course as the social, political, and economic implications of environmental decisions are addressed. This course fulfills the general education requirement in life sciences.

3 Units
54 Lecture hours

BIOL 120L
Environmental Biology Laboratory
Prerequisite/Corequisite: BIOL 120
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC, CSU
This laboratory course compliments the Environmental Biology lecture course and is designed for students interested in furthering their understanding of the environmental sciences. The scientific method will be 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.

1 Unit
54 Lab hours

BIOL 125 (C-ID BIOL 110B)
Human Anatomy
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; BIOL 101
Transfers to: UC, CSU
This course is primarily a systems approach to the study of human body structure. The study of each body system includes structural specializations and functions from the microscopic to the system level emphasizing the interdependence of form and function. Additional topics include methods of anatomical study, human genetics, and embryonic development. The laboratory exercises will also include vertebrate dissections. This course is intended for students preparing to enter careers in the health sciences.

4 Units
54 Lecture hours
54 Lab hours

BIOL 200
Principles of Biology 1 (Molecular and Cellular Biology)
Prerequisite: CHEM 120 and MATH 070 or MATH 070D or MATH 073 or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
("Students will receive credit from UC for only one of the following courses: BIOL 101 or BIOL 200")
This course is first in a sequence of courses for undergraduate preparation for biology majors. Areas of focus include cellular and molecular biology, bioenergetics, genetics, evolution and ecology. The laboratory portion of the course emphasizes scientific methodologies focusing on observations, experimentation, record keeping, data collection and analysis, and presentation of outcomes. The course sequence also provides excellent preparation for those students intending to pursue post-graduate studies in the medical sciences.

5 Units
54 Lecture hours
108 Lab hours

BIOL 201
Principles of Biology 2 (Diversity and Ecology)
Prerequisite: BIOL 200 with a grade of "C" or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

This course continues the sequence of undergraduate preparation for biology majors. The course is a survey of the diversity of life on earth, focusing on the relationships between structure and function. Topics deal with classification, development, evolutionary relationships and ecological functions of living organisms. Laboratories will emphasize life forms, experimentation and dissections. Field trips will be used to examine organisms in their natural settings.

5 Units
54 Lecture hours
108 Lab hours

BIOL 205
Molecular Biology and Biotechnology
Prerequisite: BIOL 200; CHEM 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course is designed for Life Science majors as a continuation of their general biology studies. This course will cover a variety of topics relevant to the study of genetics, ranging from classical to nontraditional Mendelian genetics, from bacterial and viral genetics to human genetics, and include studies on molecular techniques and their applications. Other topics will include chromosome analysis, population genetics and genomics.

3 Units
54 Lecture hours

BIOL 206
Principles of Genetics
Prerequisite: BIOL 200
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: UC, CSU

This course is designed for Life Science majors as a continuation of their general biology studies. This course will cover a variety of topics relevant to the study of genetics, ranging from classical to nontraditional Mendelian genetics, from bacterial and viral genetics to human genetics, and include studies on molecular techniques and their applications. Other topics will include chromosome analysis, population genetics and genomics.

4 Units
54 Lecture hours

54 Lab hours

BIOL 206
Principles of Genetics
Prerequisite: BIOL 200
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

This course is designed for Life Science majors as a continuation of their general biology studies. This course will cover a variety of topics relevant to the study of genetics, ranging from classical to nontraditional Mendelian genetics, from bacterial and viral genetics to human genetics, and include studies on molecular techniques and their applications. Other topics will include chromosome analysis, population genetics and genomics.

3 Units
54 Lecture hours

BIOL 206
Principles of Genetics
Prerequisite: BIOL 200
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

This course is designed for Life Science majors as a continuation of their general biology studies. This course will cover a variety of topics relevant to the study of genetics, ranging from classical to nontraditional Mendelian genetics, from bacterial and viral genetics to human genetics, and include studies on molecular techniques and their applications. Other topics will include chromosome analysis, population genetics and genomics.

3 Units
54 Lecture hours

BIOL 222
Microbiology
Prerequisite: CHEM 110
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; BIOL 101
Transfers to: CSU

The 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, the detection, isolation and identification of microorganisms. This course is intended for students preparing to enter careers in the life sciences.

5 Units
54 Lecture hours

108 Lab hours

BIOL 226 (C-ID BIOL 120B)
Human Physiology
Prerequisite: BIOL 125 and CHEM 110
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; BIOL 101
Transfers to: UC, CSU

Human Physiology provides 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 will include neural and hormonal homeostatic control mechanisms, and a study of the musculoskeletal, circulatory, respiratory, digestive, urinary, immune and endocrine systems. Laboratory exercises will allow students to gather physiological data and draw conclusions on how physiological mechanisms are regulated. This course is intended for students preparing to enter careers in the health sciences.

4 Units
54 Lecture hours

54 Lab hours

BIOL 299
Directed Study: Biology
Transfers to: UC, 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 3.1 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.

1 to 3 Units
54 to 216 Lab hours
B U S I N E S S  L A W  
Division of Business

BUSL 110 (C-ID BUS 120)  
Legal Environment of Business
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (*credit limit), CSU (*Students will receive credit from UC for only one of the following courses: BUSL 110 or BUSL 220)
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.
3 Units  
54 Lecture hours

BUSL 220  
Business Law
Prerequisite: BUSL 110
Transfers to: UC (*credit limit), CSU (*Students will receive credit from UC for only one of the following courses: BUSL 110 or BUSL 220)
A continuation of BUSL 110, this course includes a study of the following areas: negotiable instruments, security devices, partnerships and corporation, insurance, real property, personal property, estates, bankruptcy, and government and business. The student should consult the college to which he plans to transfer for the junior year before registering for this course.
3 Units  
54 Lecture hours

C A R P E N T R Y  
Division of Career & Technical Education

CARP 020H  
Welding
Prerequisite: Indentured Apprentice with the State of California
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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.
1 Unit  
20 Lecture hours  
20 Lab hours

CARP 020I  
Advanced Welding
Prerequisite: Indentured Apprentice with the State of California
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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.
1 Unit  
20 Lecture hours  
20 Lab hours

CARP 040A  
Orientation (Formerly CARP 020A)
Prerequisite: State Indentured Carpenter Union Apprentice
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the Carpenters Industry by examining fundamental trade skills, employee-employer roles and responsibilities, and safe work practices needed for entry level performance in the construction industry. While emphasis will be placed on attaining standard industry safety credentials, the course is designed to provide students with practical experience using construction terminology, math operations and basic measuring techniques, tool identification and proper usage. Safety will cover OSHA training for jobsite hazard recognition, accident prevention, and safe tool and equipment operation. Upon successful completion, students will receive Occupational Safety and Health Administration (OSHA) 10 Hour Certification.
2 Units  
30 Lecture hours  
10 Lab hours

CARP 040B  
Safety and Health Certifications (Formerly CARP 020B)
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the Carpentry Industry by covering safe and appropriate use of hazardous communication systems, fall protection, fork lifts, and emergency response procedures. Students will acquire the ability to assess danger, employ prevention measures, and take appropriate action in emergencies. This training will expose students to various health emergency scenarios and provide students with ample opportunities to practice CPR and first aid response.
Upon successful completion, students will be 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.
2 Units  
30 Lecture hours  
10 Lab hours

CARP 040C  
Print Reading (Formerly CARP 020C)
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the Carpenters Industry by providing basic skills needed for reading and interpreting construction prints. Material covered will focus on developing the student’s ability to interpret two dimensional views in such a way to convey the shape and characteristics of construction elements, and to provide an overview of the scope of the project. Students will be able to recognize standard drawing methods, pictorial views, and how to read visual and verbal communication cues.
2 Units  
30 Lecture hours  
10 Lab hours
CARP 040D
Transit Level/Laser
(Formerly CARP 020D)
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing procedures for locating wall forming information on project plans, calculating layout dimensions, and for estimating material requirements. Basic wall panel forming and reinforcement methods, material preparation and hardware installation are included in this course.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 040E
Foundations and Flatwork
(Formerly CARP 020E)
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the required and supplemental instruction for the design and function of several types of foundations and concrete flatwork. The methods, techniques and procedures for formwork layout, elevation, and construction will be presented. Jobsite safety, print interpretation, material identification, and basic use of the builders’ level will be included in the training.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 040F
Wall Forming
(Formerly CARP 020F)
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the skills and procedures for forming reinforced concrete walls using single and double waler systems. Identification of the characteristics and applications of built-in-place, prefabricated and specialty forms will be covered. Practical exercises will prepare students for locating wall forming information on project plans, calculating layout dimensions, and for estimating material requirements. Basic wall panel forming and reinforcement methods, material preparation and hardware installation are included in this course.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 040G
Stair and Ramp Forming
(Formerly CARP 020G)
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing methods, procedures and practices used to form stair and ramp structures. Students will review project plans to determine stair and ramp configuration and overall dimensions. Stinger riser and stair thread calculations will be explained and practiced. State and federal building codes pertaining to stairs, ramps and handrail requirements will be covered in this class.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 040H
Commercial Floor Framing
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing procedures for floor joist construction and the various installation techniques used in the commercial industry. Students will interpret floor plans for job planning, identify floor joist system, and calculate material take off. Integration of wall plating, joist layout and floor sheathing methods will be included. Instruction will incorporate measuring skills, use of math operations, specialty hardware applications and identification of appropriate building codes.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 040I
Basic Roof Framing
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing an introduction to basic gable roof framing, terminology, characteristics and construction methods. Students will interpret print views and drawing elevations for job planning, and to determine rafter systems and layout details. Basic rise, run, rafter angles and length calculations will be practiced. Framed wall construction will be incorporated to facilitate the gable roof assembly techniques and installation procedures that are the focus of this course.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 040J
Advanced Print Reading
(Formerly CARP 020J)
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the required and supplemental instruction for carpentry apprentices in advanced print reading. In this course, students will analyze multi-view drawings to determine construction type, locate benchmark and building elements; review codes, references, and perform calculations for construction planning. A closer look at specifications (verbal communication), will explain to students how they are formatted and used to clarify the specific project design outcomes. Tips for troubleshooting installation, code compliance, and managing project scope and quality of construction will prepare students for jobsite leadership.
2 Units
30 Lecture hours
10 Lab hours
CARP 040K
Rigging
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing lifting and practical rigging methods and procedures. This course provides a historical perspective while educating workers on the 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 will be presented. This training will identify standard signaling and communication methods, and stress 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 UBC Rigging Qualification Card.

2 Units
30 Lecture hours
10 Lab hours

CARP 040L
Solar Installer Level I
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry. This course will provide workers with an industry overview and outlook for photovoltaic (renewable) energy production. Key terms and concepts of photovoltaic system operations will include solar cell technology, PV array configuration, series and parallel circuits, testing equipment, inspection, balance of system components, mounting methods, and applicable codes. Practical training will cover 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 will receive a UBC Solar Installer Level 1 Qualification Card.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 040M
Water Treatment Facilities
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry. This 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.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 040N
Green Building and Weatherization
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are in the carpentry industry. This course begins with a detailed explanation of sustainable building science, recycling of materials, whole house audits, and discussion of construction components and systems that contribute to energy efficiency. The differences in structural design such as joints, framing, windows and door openings, floor and attic will be evaluated for issues related to air flow and stack effect in conditioned spaces. Instruction will include 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 will be 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 (CAZ). Techniques and devises used to maintain healthy air quality during construction will be employed for applicable activities.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 040P
Tool/Equipment Applications
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing hand/power tool and equipment skill development for various construction applications. Students will identify the correct practices for handling and preparing materials. Training will include how to correctly select, use, and operate tools and aerial lifts to prevent accidents and injuries. Scaffold safety and the proper procedures to erect and dismantle welded frame scaffold will also be covered. Upon successful completion, students will be issued United Brotherhood of Carpenters (UBC) Aerial Lift and Scaffold Erector-Welded Frame Qualification Card.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 040S
Moldings and Trims
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry. This course presents the theory, methods, and procedures required to frame basic walls. Hands-on practice using proper tool techniques and appropriate materials will enhance fundamental skill development. Beginning with an introduction to print reading, students will perform basic wall layout, plating procedures, framing assembly and bracing, before aligning and completing selected wall construction project to industry standards.

1.5 Units
20 Lecture hours
20 Lab hours
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry. This 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. The tools, techniques for cutting, coping and installing various molding and trim types are presented and practiced throughout the course.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 040T
Storefront Installations
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment.
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing an introduction to the basic rake wall framing theory and commercial construction techniques and materials. Floor plan interpretation will be used by students for job planning, design recognition, and to determine materials. Students will layout and detail wall plates for locating basic rake wall components and door openings typically found in commercial construction applications. Instruction will include measuring skills, mathematical principles, wall assembly and installation procedures and detail on how structural connections are made.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 040V
Basic Metal Framing
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment.
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing an overview of residential metal framing theory and construction techniques. Students will interpret prints for job planning and to estimate materials. Students will layout and detail wall plates for locating all wall and truss components and openings. Instruction will include measuring techniques, mathematical principles, wall and roof assembly and installation techniques.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050A
Basic Commercial Framing
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment.
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the installation process for several types of security and exit door hardware. Discussion of electrical and card reader systems will be included. An emphasis will be placed on print interpretation, codes, door schedules, symbols, and hardware recognition. Students will use the methods and procedures presented to install selected door and hardware systems.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050B
Cabinet Installation
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment.
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing an introduction to stair framing theory, terminology and construction techniques. Students will 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 will be presented and practiced. Instruction will include measuring skills, mathematical principles, stair and handrail fabrication, assembly and installation.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050C
Doors and Door Hardware
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment.
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing bridge design and construction methods and procedures. Students will construct bridge and deck formwork using job-built forming methods. Descriptions for exterior and interior girders, edge forms, bulkheads and hinge forms will be presented. Both job-built and precast formwork methods will be discussed.
Formwork project will include panel construction, assembly, and hardware installation tasks. Related safety, math and print reading will be covered in the training.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050F Tilt Up Construction
Prerequisite: State Indented Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indented Apprentices with the State of California who are interested in the carpentry industry by providing an introduction to formwork types, applications and construction methods for gang and column forms using built and manufactured forming systems. Discussions will cover heavy timber gang forms and use of taper ties, bracing, and bulkhead tables. The course project will include gang and column formwork construction, assembly, and hardware using selected manufactured products. Related safety, math and print reading will be covered in this course.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050G Beam and Deck Forming
Prerequisite: State Indented Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indented Apprentices with the State of California who are interested in the carpentry industry by providing an introduction to the use of various woods and patented forming systems for construction of concrete beams and decks. Metal beam forms and capitals will be highlighted. Additionally, layout and builders level skills will be used in this class.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050H Gang Forms/Columns
Prerequisite: State Indented Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indented Apprentices with the State of California who are interested in the carpentry industry by providing the terminology, design considerations and construction techniques for various types of exterior finish details. Students will 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 will use the construction techniques presented to complete various exterior detail installations to print specifications.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050K Advanced Stairs
Prerequisite: State Indented Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indented Apprentices with the State of California who are interested in the carpentry industry by providing basic stair construction before presenting advance skill needed to perform circular and “u” shaped stair framing tasks. Students will interpret floor plans and drawing elevations for job planning and to layout and construct advanced stair design. Students will adapt stair calculations to determine the number of stairs, landing height, stair thread and riser dimensions. In addition to measuring skills, mathematical principles, stair and handrail fabrication and assembly, the installation techniques required for circular and U-shaped stair configurations will be covered.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050L Advanced Commercial Framing
Prerequisite: State Indented Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indented Apprentices with the State of California who are interested in the carpentry industry by providing advanced commercial wall framing theory and construction techniques with structural hardware and shear panel installation. Students will interpret floor plans for job plan-
ning and to layout and detail plates for complex wall configurations, rake walls and openings. Instruction will include measuring skills, use of mathematical principles, advanced rake wall construction design, plywood shear panel installation, and structural hardware attachment.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 50M
Bridge Falsework
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing bridge falsework design and construction methods and procedures. The techniques for bent assemblies, base sub-assemblies, deck soffits and hardware installation will be presented. Falsework tasks will include rigging and alignment techniques. Related safety, math and print reading will be covered in the training.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050N
Advanced Roof Framing
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the advanced skills used to frame hip roof types, terminology, roof characteristics and construction methods. Students will interpret print views and elevations for job planning to determine hip roof rafter systems and layout details. Students will perform rise, run, rafter angles and length calculations. Framed wall construction will be incorporated to facilitate the hip roof assemble techniques and installation procedures.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050P
Panelized Roofing
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by covering the materials, tools, and adhesive application techniques for fabricating plastic laminated countertops. This course covers installation of plastic laminates including function and design. Students will review prints to determine substrates, laminate material types and to calculate countertop dimensions. Installation methods and techniques for drop edge and back splash together with cleaning and repair will be emphasized. A countertop will be designed and installed to specifications. Correct use of tools and other equipment will be stressed.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060C
Doors and Door Frames
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the installation process from constructing rough openings to hanging and adjusting doors. An emphasis will be placed on print interpretation, door schedules, symbols and hardware recognition. Students will use the methods and procedures presented to install selected frames and doors.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060D
Stair Trim
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing how various trims are utilized to finish stair construction design features. Students will 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 tools techniques for cutting materials, mitering
corner, and installing selected trim types are presented and practiced throughout the training.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060E
Commercial Fixtures
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing print interpretation and fabrication techniques used in the preparation and installation of commercial store fixtures. An emphasis will be placed on pre-job planning, proper hand and power tool use and safety measures. Students will apply the procedures presented to complete valance and wall panel installations.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060F
Fitting Rooms/Partitions
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing style comparison, attachment methods and installation techniques for various fitting room and partition fixtures. Framing elements, mounting brackets, and panel products will be covered. The procedures presented will be applied during fitting room and partition application projects.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060G
Exit & Electrical Security Devices
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the classifications, types, models, codes, and uses for accident hazard exit (“panic”) devices and fire exit devices. A range of security products and door hardware used in the industry such as crossbars, latches, flush bolts, and kick plates will be discussed. Proper selection, installation and adjustment techniques for selected devices will be covered.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060H
Solid and Stone Surfaces
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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 by providing both basic and advanced assembly and installation techniques for solid surface, natural stone and manufactured materials. Various products, designs, materials, accessories, maintenance, repairs and safety considerations will be included. A discussion of typical applications for different surface types will aid in the identification of suitable materials. Students will use the procedures presented to fabricate countertops with backsplash and create a design inlay.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060I
Hand/Power Tool Usage
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing instruction on working drawings used in the designing and building of a project. Instruction will include an explanation of the methods and procedures used to identify components and materials needed to finish the project. Students will study floor plans, elevations and detail drawings to determine design, wood types, style and features of construction and assembly details.

2 Units
30 Lecture hours
10 Lab hours

CARP 060J
Power Tools and Stationary Equipment
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing instruction for both power tools and stationary equipment typically used in millwork and cabinet production. Students will identify the appropriate procedures and machining operation for various milling applications. Practical exercises will focus on shaping materials using various types of stationary saws, planes, sharpeners and power tools.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060K
Print Reading and Stock Billing
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the classifications, types, models, codes, and uses for accident hazard exit (“panic”) devices and fire exit devices. A range of security products and door hardware used in the industry such as crossbars, latches, flush bolts, and kick plates will be discussed. Proper selection, installation and adjustment techniques for selected devices will be covered.

1.5 Units
20 Lecture hours
20 Lab hours
CARP 060L
Material and Hardware Applications
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by covering the materials, tools, and adhesive application techniques for fabricating plastic laminated countertops. This course covers installation of plastic laminates including function and design. Students will review prints to determine substrates, laminate material types and to calculate countertop dimensions. Installation methods and techniques for drop edge and back splash together with cleaning and repair will be emphasized. A countertop will be designed and installed to specifications. Correct use of tools and other equipment will be stressed.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 060M
Production Casework and Assembly
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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 by providing details of cabinetry fabrication from design and function through the complete production process. An emphasis will be placed on print interpretation, job planning and proper construction sequence. Countertops and hardware styles and types will be discussed. Students will use the methods and procedures presented to build typical base casework to industry standards.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 060N
Laminates and Overlays
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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 by covering the materials, tools, and adhesive application techniques for fabricating plastic laminated countertops. This course covers installation of plastic laminates including function and design. Students will review prints to determine substrates, laminate material types and to calculate countertop dimensions. Installation methods and techniques for drop edge and back splash together with cleaning and repair will be emphasized. A countertop will be designed and installed to specifications. Correct use of tools and other equipment will be stressed.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 060P
Jigs, Fixtures and Accessories
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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 by providing 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 will be identified during training. Discussions will enable students to explain when and how add-on equipment makes work easier and improves productivity. Students will use the techniques presented to select and attach accessories and to fabricate custom jigs.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 060R
Millwork and Specialty Applications
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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. This course covers how moldings and trims are utilized to finish wall and cabinets. Students will be introduced to product styles, characteristics, millwork and specialty applications and installation methods are included in this training.
The tool techniques for milling profiles, measuring and cutting, coping and installing various molding, trim and specialty items are presented and practiced throughout this course.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 060S
Computerized Project Planning and Estimating
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the mill and cabinet maker industry by providing computerized project planning and estimating tasks. Training will begin with a brief review of basic computer operations. Students will use project prints and specifications to determine material types, sizes, quantities and to plan and estimate material and labor costs in Microsoft (MS) Windows, Word, and Excel worksheets.
2 Units
40 Lecture hours

CARP 060T
Computer Applications CAD-CAM
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the mill and cabinet maker industry by providing instruction for computerized software used to create production drawings and cabinetry designs. Training will include a brief review of basic computer operations, access to software, internet and email programs. Students will become familiar with the organization of computer aided design software (AutoCAD 2014) user interface, basic drawing commands and file saving tools. Discussion will include an overview of computer aided manufacturing (CAM) from design to production. Students will use CAD drawing tools to create a base cabinet design.
2 Units
40 Lecture hours
CARP 060V
Building Information Modeling Concepts
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the mill and cabinet maker industry by providing instruction of computerized software used in project management planning, workflow and troubleshooting.
Training will include a brief review of basic computer operations, access to software, internet and email programs. Students will navigate building information modeling (BIM) project data to grasp basic concepts related to viewing three dimensional (3D) building models, project scheduling and construction problem solving features.
2 Units
40 Lecture hours

CARP 060W
Building Information Modeling Computer Applications
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the mill and cabinet maker industry by providing instruction of computerized software used to develop three dimensional models of construction projects. Training will provide an introduction to the design process using various drawing software. Students will practice importing and exporting design elements into building information modeling (BIM) organization structure for project management and work flow assessment. The course will include a review of basic computer skills.
2 Units
40 Lecture hours

CARP 070A
Basic Frame Scaffold
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the basic techniques and procedures to erect frame scaffolds. Construction practices and safety considerations will be a major focus of the class. Scaffold standards and regulations enforced industry wide are presented and utilized in hands-on projects. Students will identify frame scaffold components and the importance of site and equipment inspections. Students will erect typical frame scaffold assemblies to industry standards.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 070B
Basic System Scaffold
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the basic techniques and procedures to erect system scaffolds. Construction practices and safety considerations will be a major focus of the class. Scaffold standards and regulations enforced industry wide are presented and utilized in hands-on projects. Students will identify system scaffold components and the importance of site and equipment inspections. Students will erect typical system scaffold assemblies to industry standards.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 070C
Basic Tube and Clamp Scaffold
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the basic techniques and procedures to erect tube and clamp scaffolds. Construction practices and safety considerations will be a major focus of the class. Scaffold standards and regulations enforced industry wide are presented and utilized in hands-on projects. Students will identify tube and clamp scaffold components, access, inspection and assembly and disassembly procedures. Students will install components for multi-bay/multi-tier scaffolds to industry standards.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 070D
Basic Suspended Scaffold
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by providing the basic techniques and procedures used to install suspended scaffolds. The terminology and use of scaffold components in cable (wire rope) suspended configurations will be the focus of this training. Additional topics will include anchorage systems, structural supports, hoists and suspension devices. Students will form eyes in wire rope using proper clamping techniques. Safety hazards and increased fall protection measures will be taken as students follow design plans to construct cable suspended scaffold.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 070E
Intermediate Frame Scaffold
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by introducing the skills required to construct elevated platforms that span a large area. The importance of verifying that the first bay is plumb, level and square will be stressed. The practices for attaching and aligning multi-bay scaffolds in both width and length directions will be explained. Students will access various methods of distributing platform loads. The students will employ proper procedures to elevate each row of bays to maintain a uniform and level platform. Students will use the techniques presented to erect multiple connected and non-connected scaffold bays to industry standards.
1.5 Units
20 Lecture hours
20 Lab hours
CARP 070G
Advanced Frame Scaffold
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by instructing students how to adapt scaffold configurations to follow the contour of a building's architectural features and height limitations. Students will use the proper terminology to describe structural and design elements typically found in construction. Students will utilize reach limitation guidelines to determine maximum platform height. Students will erect a frame scaffold to conform to angles, slopes, obstacles and obstructions of walls and/or ceilings.
1.5 Units
20 Lecture hours
20 Lab hours

CARP 070J
Confined Space
Prerequisite: State Indentured Carpenter Union Apprentice; CARP 040A; CARP 040B
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the carpentry industry by instructing students in safe access, entry and monitoring methods for work confined spaces. Terminology, hazard recognition, air quality and use of various types of personal protective and respiratory equipment will be presented. Students will complete simulated work tasks and emergency rescue procedures utilizing a mock up. Upon successful completion of the course students will be issued a United Brotherhood of Carpenters Confined Space Qualification Card.
2 Units
30 Lecture hours
10 Lab hours

CHEMISTRY
Division of Mathematics & Sciences

CHEM 101
Chemistry and Our World
Prerequisite: READ 023 or appropriate assessment
Advisory: ENGL 101; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant credit for only one of the following courses: CHEM 101, CHEM 110)
This course explores the properties and reactions of matter, focusing on chemical applications of social concern. Student will investigate elementary principles of chemistry, including chemical and physical properties of the elements, the states of matter, nomenclature, basic atomic theory, acids and bases, organic chemistry, biochemistry, and nuclear chemistry. Supplementary topics will be selected from topics of current social interest, including air and water pollution: chemical, nuclear and alternative energy sources; chemical and biological warfare; chemistry and the law; and the pharmaceutical and medical industries. Emphasis will be placed on the construction of effective and informed arguments, both verbal and written. The content of this course is oriented to the nonscience major, and mathematical content will be presented at a basic level.
3 Units
54 Lecture hours

CHEM 101L
Chemistry and Our World Laboratory
Prerequisite/Corequisite: CHEM 101
Transfers to: UC, CSU
This laboratory course complements the corresponding lecture section, demonstrating important concepts and theories through relevant experiments. Topics will include simple chemical reactions, separations of mixtures, and formation and analysis of everyday chemicals, among others. The scientific method will be presented as a tool to guide laboratory investigations. Laboratory measurement techniques will be emphasized throughout the course.
1 Unit
54 Lab hours

CHEM 110
Chemistry for Allied Health Majors
Prerequisite: MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; MATH 175 or appropriate assessment
Concurrent enrollment in MATH 070 or MATH 070D or MATH 073
Transfers to: UC (credit limit*), CSU (*The UC will grant credit for only one of the following courses: CHEM 110, CHEM 120)
This course provides an introduction to the fundamental concepts of general, organic, and biological chemistry, and is especially appropriate for students intending to pursue a career in nursing and other health-related professions, including kinesiology and psychology. Emphasis is placed on the relationship between chemistry and the health/medical sciences. 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.
5 Units
54 Lecture hours
18 Other hours

CHEM 120
Introduction to Chemistry
Prerequisite: MATH 070 or MATH 070D or MATH 073 with a grade of “C” or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant credit for only one of the following courses: CHEM 110, CHEM 120)
This one-semester course is designed for students intending to major in science or engineering. The course primarily prepares students for Chemistry 130; 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.
5 Units
54 Lecture hours
54 Lab hours
18 Other hours

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and molecular structure and periodic properties, thermochemistry, liquids and solids, solution chemistry. The laboratory introduces experimental chemistry with examples from all areas of chemistry.

5 Units
54 Lecture hours
72 Lab hours
36 Other hours

CHEM 140
General Chemistry
Prerequisite: CHEM 130 with a grade of "C" or better
Advisory: ENGL 101; READ 023 or appropriate assessment; MATH 180 or appropriate assessment
Transfers to: 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 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.

5 Units
54 Lecture hours
108 Lab hours

CHEM 230
Organic Chemistry I
Prerequisite: CHEM 140 with a grade of "C" or better
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. 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.

5 Units
54 Lecture hours
108 Lab hours

CHEM 231
Organic Chemistry II
Prerequisite: CHEM 230 with a grade of "C" or better
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 will be emphasized throughout the course of the semester. Biorganic compounds will be introduced. Particular emphasis will be 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 the techniques learned in the previous semester to carry out more complex reactions and multi-step synthesis. Additionally, students will 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.

5 Units
54 Lecture hours
108 Lab hours

CHEM 299
Directed Study: Chemistry
Transfers to: UC, 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 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.

1 to 3 Units
54 to 216 Lab hours

CHICANO STUDIES
Division of Behavioral & Social Sciences

CHST 101
Introduction to Chicano Studies
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This is an introductory course that examines the cultural, economic, educational, and political issues as they impact the Chicana/o in the U.S. Topics include Chicana/o identity, ethnic/racial paradigms, gender, language, race, educational attainment, immigration, labor, and poverty. Students interested in this course may include individuals with familial or personal connections to the Chicano (Mexican-American) community and/or those intending to work in environments with high concentrations of this population.

3 Units
54 Lecture hours

CHST 146
The Mexican American in the History of the U.S.
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is a survey of the history of the Mexican/Mexican-American people in the United States presented in the context of U.S. history and government. The course begins with a discussion of the Mexican American War and the Treaty of Guadalupe Hidalgo, and goes on to examine the Mexican American struggle for full integration into U.S. society. Key topics include repatriation, unionism, Mexican American GIs on the Pacific and European war
CHILD DEVELOPMENT
Division of Behavioral & Social Sciences

CD 095 Current Issues in Child Development
Advisory: CD 106; CD 110
A working knowledge of current issues in the field of Child Development, leadership and advocacy skills and professionalism will be the focus of this course. The course is meant for students who are interested in understanding the current issues and changes in the field of Child Development. This course meets State Of California Teacher Credentialing requirements for the Child Development Permit and Department of Social Services Classification Indicator DS5.
1 Unit
18 Lecture hours

CD 102 (C-ID ECE 220) Nutrition, Health and Safety for Children
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students interested in working in group care and educational programs that enroll children from infancy to early adolescence. The course focuses on preventive health and safety practices in group care environments for both children and adults and integration of these practices into everyday program planning and development. Introduction will also be provided regarding the laws, regulations, standards, policies and procedures and child development curriculum related to child nutrition, health and safety. Topics will include prevention and recognition of infectious disease, immunization, dental and mental health, child nutrition, menu planning, sanitary food handling, prevention of injury, emergency preparedness and evacuation, providing services for children with special needs and child abuse prevention, identification and reporting responsibilities. The importance of program collaboration with families and health professionals will also be addressed. This course meets the Department of Social Services Classification Indicator DS7 and the State of California Department of Education Title V Child Development Permit.
3 Units
54 Lecture hours

CD 103 Parenting
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who are interested in gaining information 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. The following topics will be explored and examined: understanding the parenting process from infancy to adulthood, parenting in diverse culture, various styles and family structures, alternatives to biological parenting and understanding high risk families.
3 Units
54 Lecture hours

CD 104 Methods for Teaching Parent Education
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for child development students interested in developing skills in working with and educating parents. The course provides the framework for preparing students who are interested in specializing in parenting and/or teaching parent education classes. Students will participate in developing lesson plans, class schedules, and leading parent discussion seminars. Topics covered include: leadership techniques, structuring parent education classes considering theoretical perspectives regarding the family, parent education topics, and resources for parents. This course meets the California Commission on Teacher Credentialing requirements for the Child Development Permit.
3 Units
54 Lecture hours

CD 106 (C-ID CDEV 100) Child Growth and Development
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC
(*Students will receive credit from UC 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 Indicator D53 and applies toward the State of California Title V requirement for the Child Development Permit.

3 Units
54 Lecture hours

CD 110 (C-ID ECE 120) Principles and Practices of Early Childhood Education
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students desiring to work in educational programs for children from birth to age eight. The course is an examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationship, constructive adult-child interaction and teaching strategies in supporting physical, social, emotional 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 meets the Department of Social Services Classification Indicator D53 and the State of California Department of Education Title V Child Development Permit.

3 Units
54 Lecture hours

CD 111 (C-ID ECE 130) Early Childhood Education Curriculum
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 D53 and applies toward the State of California Title V requirements for the Child Development Permit.

3 Units
54 Lecture hours

CD 114 (C-ID ECE 200) Observation and Assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students working towards a Child Development permit. The course focuses on appropriate use of assessment and observation strategies 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 Classification Indicator D53 and applies toward the State of California Title V requirement for the Child Development Permit.

3 Units
54 Lecture hours

CD 115 Creative Art Experiences for Children
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides a comprehensive study of creativity and its impact on child development. A developmental perspective will be 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 programs. Applies towards the State of California Title 22 Department of Social Services Classification Indicator D53 and State of California Teacher Credentialing requirements for the Child Development Permit.

3 Units
54 Lecture hours

CD 118 Development of Science and Math Experiences
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course 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 the school and the child care center. This course is targeted for students preparing for a career in teaching children. The course meets the Department of Social Services Classification Indicator D53 and applies towards the State of California Department of Education Title V Child Development Permit.

3 Units
54 Lecture hours

CD 119 Music and Movement for Children
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course offers a framework for providing developmentally appropriate music and movement principles and experiences for children birth to early adolescence. The developmental characteristics of movement and music abilities will be outlined along with the basics of movement and music education. Students will participate in music and movement related activities. This course is designed for students interested in working with children in group care and educational programs. The course meets the Department of Social Services Classification Indicator D53 and applies towards the State of California Department of Education Title V Child Development Permit.

3 Units
54 Lecture hours

CD 120 Experiences in Language Arts
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who are interested in promoting and facilitating the language development of children. The course is a study of philosophies, principles and implementation of language arts experiences for children from birth to early adolescence. The theoretical basis of language development and systems of teaching literacy will be 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 State of California Commission on Teacher Credentialing requirements for the Child Development Permit and Department of Social Service Classification Indicator DS5.

3 Units
54 Lecture hours

CD 128 Child Growth and Development

During the School Years

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course focuses on the developmental needs of children from 5-14 years and will include the physical, cognitive, linguistic, social, and emotional aspects of the school-age child. Emphasis will be placed on gaining an understanding of various strategies that address the needs of school-aged children. This course is directed towards students seeking employment in educational programs for school-age children. The course meets the Department of Social Services Classification Indicator DS5 and applies towards the State of California Department of Education Title V Child Development Permit.

3 Units
54 Lecture hours

CD 129 School-Age Care Supervision and Administration

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course presents the principles of administration and supervision of school-age care programs. Topics covered include: characteristics of a quality program; staff roles; school-age children’s development; developmentally-appropriate discipline and guidance, environment, and curriculum; policies and procedures for program operation; and laws and regulations. The unique features of a school-age care program as opposed to a preschool child care program or the regular school day will be addressed. Students taking this course will be prepared for a position working as an administrator or supervisor in a school-age care program. This course meets the State of California Teacher Credentialing requirements for the Child Development Permit and Department of Social Service Classification Indicator DS 5.

3 Units
54 Lecture hours

CD 130 School-Age Child Care and Curriculum

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is meant for students interested in providing enrichment curriculum for school-age children enrolled in out of school child care programs. The course focuses on the development and implementation of developmentally appropriate curriculum. Topics covered include developmental theories, issues related to the growth and development of school-age children and teaching methods and practices that utilize that knowledge. The course meets State of California Commission on Teacher Credentialing requirements for the Child Development Permit and Department of Social Service Classification Indicator DS5.

3 Units
54 Lecture hours

CD 208 (C-ID CDEV 110)
Child, Family and Community

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

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 inter-relationship 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 V Child Development Permit.

3 Units
54 Lecture hours

CD 210 Adult Supervision

Prerequisite: CD 106, CD 110, CD 208

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed for students who wish to develop the skills to effectively supervise staff working in children’s educational programs. The course is a study of the methods and principles of supervising student teachers, volunteers, staff, and other adults in children’s educational programs. Emphasis is on the roles and development of child development professionals as mentors and leaders while simultaneously addressing the needs of children and parents. This course meets the requirements for a course in adult supervision for the Child Development Permit.

3 Units
54 Lecture hours

CD 211 Infants and Toddlers

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is a study of factors that affect the developmental progress of children from birth through 2 years. Current developmental theories specific to this age and practical applications that nurture the cognitive, language, emotional, social, personality, and motor development are explored. Emphasis will be placed on the role of the adult in designing, assessing and implementing the education and care (education and caring) of infants and toddlers. Culturally sensitive care, as well as early recognition and intervention for infants and toddlers with special needs is discussed. This course is recommended for students who are interested in working with infants and toddlers in center-based programs, family child care and parental care. This course meets the Department of Social Services Classification Indicator DS4 and applies towards the State of California Department of Education Title V Child Development Permits.

3 Units
54 Lecture hours

CD 213 Developing and Implementing Infant/Toddler Curriculum

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course will prepare students for a position working with infants and toddlers in a group setting. The course presents the elements of a quality infant and toddler program. Topics covered will include the theories of growth and development, laws and regulations governing group programs, program quality standards, and the significance of the caregiver’s relationship to the child. The course meets the State of California Commission on Teacher Credentialing requirements for the Child Development Permit and Department of Social Service Classification Indicator DS4.

3 Units
54 Lecture hours
CD 222
Administration of Educational Programs for Young Children
Prerequisite: CD 110
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course will illustrate the principles of organization and administration of federal, state, private for-profit and private non-profit children’s programs. Presentation of evaluative tools including ECERS (Early Childhood Environments Rating Scale), COR (Child Observation Record), and California Desired Results for operating programs for children is included. Students will also learn fundamental information related to program operation in the areas of budget, state regulations, inclusion, cultural awareness and developmental appropriate practices. This class provides academic training for students preparing to qualify as program administrators. The course meets State of California Teacher Credentialing requirements for the Child Development Permit and Department of Social Service Classification Indicator DS6.
3 Units
54 Lecture hours

CD 223
Advanced Administration of Educational Programs for Young Children
Prerequisite: CD 129 or CD 222
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is intended for students desiring to further enhance their program administration skills. Topics covered in CD 222 and CD 129 are explored more in depth with a specific focus on program funding, grant writing and the national accreditation process for children’s programs. Other advanced topics will include interdisciplinary and interagency functions, dealing with boards and evaluation of the program. The course meets State of California Commission on Teacher Credentialing requirements for the Child Development Permit and Department of Social Service Classification Indicator DS6.
3 Units
54 Lecture hours

CD 224 (C-ID ECE 210)
Diversity Issues During Early Childhood, School Age and Adolescents
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course 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/ethnicity, social class, sexual preference, language and abilities. Focus will also be placed on developmentally appropriateness in addressing diversity, parental perspectives and the effects of diversity on the domains of development. This course is designed for students wishing to work in children’s programs and educational settings. This course meets the Department of Social Services Classification Indicator DS3 and applies towards the State of California Department of Education Title V Child Development Permits.
3 Units
54 Lecture hours

CD 226
Introduction to Special Education
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course introduces students to the field of special education. Instruction will focus on understanding basic strategies for working with children, birth to early adolescence, that are at-risk or have a diagnosed disability. Issues related to family dynamics and education resources and strategies will also be discussed. Public policy requires that children with special needs are learning in environments with their same-age peers. This course will prepare students who wish to work in children’s programs or educational environments to facilitate the learning and development of children with special needs. Applies toward the State of California Teacher Credentialing requirements for the Child Development Permit.
3 Units
54 Lecture hours

CD 228 (C-ID ECE 210)
Early Childhood Education Practicum
Prerequisite: CD 106, CD 110, CD 111, CD 114 and CD 208
Advisory: READ 023 or appropriate assessment
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 V Child Development Permits.
36 Lecture hours
54 Lab hours

CD 229
Literacy Development for Children
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is appropriate for students interested in facilitating and supporting literacy development in children enrolled in group care and educational environments. Focus is on effective skills and techniques utilized by teachers and caregivers to enhance the development of Emergent Literacy skills throughout childhood. Students will develop knowledge of the sequence of Literacy and Language Development, Developmentally Appropriate Practices in classroom environments and a Balanced Literacy Approach. Effective assessment, curriculum and techniques to promote skill development will also be introduced. The course meets State of California Commission on Teacher Credentialing requirements for the Child Development Permit and Department of Social Service Classification Indicator DS3.
3 Units
54 Lecture hours

CD 230
Family Child Care
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who want to open and operate a family child care program. Emphasis will be placed on the management and operation of a family child care facility including how to create a budget, advertisement, recruitment of children, and conforming to State of California Title 22 regulations. This course will also cover effective parent communication, setting up an appropriate environment and community resources. This course meets the California Commission on
CD 231
Curriculum for Family Child Care
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who are preparing to work in a family child care program or to operate their own program. This course provides an overview of the fundamentals of planning and implementing a curriculum for family child care. Emphasis is placed on understanding the importance of a philosophy statement, goals and objectives for lesson plans, setting up the physical environment, the caregiver’s role, and the parent’s role. The unique challenges of organizing a home as a learning environment, dealing with multi-age groups, and small groups will also be addressed. This course meets the California Commission on Teacher Credentialing requirements for the Child Development Permit and the Department of Social Services Classification Indicator DS3.
3 Units
54 Lecture hours

CD 232
Educating Children with Special Needs
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who are preparing to work in a family child care program or to operate their own program. This course provides an overview of the fundamentals of planning and implementing a curriculum for family child care. Emphasis is placed on understanding the importance of a philosophy statement, goals and objectives for lesson plans, setting up the physical environment, the caregiver’s role, and the parent’s role. The unique challenges of organizing a home as a learning environment, dealing with multi-age groups, and small groups will also be addressed. This course meets the California Commission on Teacher Credentialing requirements for the Child Development Permit and the Department of Social Services Classification Indicator DS3.
3 Units
54 Lecture hours

CD 299
Directed Study: Child Development
Transfers to: UC, 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.
1 to 3 Units
54 to 216 Lab hours

CHIN 101
Chinese I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is a continuation of the essentials of the Chinese Language. The course stresses oral and written proficiency through fundamental use of Chinese pronunciation and the Pinyin Spelling System. Students will continue to further their knowledge of Chinese characters. In addition to classroom discussion, students receive intensive individualized oral-aural practice in the language laboratory via interactive websites, audio CDs, video programs, and CD ROMs. Various facets of Chinese history, culture and civilization will also be analyzed via cross-cultural comparisons. This course is intended for those interested in learning to speak Chinese as well as for those seeking a degree in the Chinese language.
4 Units
72 Lecture hours

CHINESE
Division of Communications & Languages
CHIN 101
Chinese I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course provides the student with an introduction to the Chinese language and culture. The course stresses oral and written proficiency through fundamental use of Chinese pronunciation and the Pinyin Spelling System. Students will also receive an introduction to Chinese characters. In addition to classroom discussion, students receive intensive individualized oral-aural practice in the language laboratory via interactive websites, audio CDs, video programs, and CD ROMs. Various facets of Chinese history, culture and civilization will also be analyzed via cross-cultural comparisons. This course is intended for those interested in learning to speak Chinese as well as for those seeking a degree in the Chinese language.
4 Units
72 Lecture hours

CIV 140
Civil Drafting Fundamentals
Advisory: ENGT 101 or two years of high school drafting; ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment.
Transfers to: CSU
This course is for all students interested in the career field of Civil Design Drafting and Civil Engineering. The course is a 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.
3 Units
36 Lecture hours
72 Lab hours

CIVIL DESIGN
Division of Career & Technical Education
CIV 142
Introduction to Surveying and GPS
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 102
Transfers to: CSU
This course is for all students interested in the career field of Civil Design Drafting, Surveying/Mapping, and Civil Engineering. Introduction to Surveying and GPS will cover the principles and practices of land surveying which will include the measuring of distance, direction, elevation and position, topographic mapping, and use 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 those in the construction industry who need to acquire property data.
4 Units
54 Lecture hours
54 Lab hours

CIV 143
Applications to Surveying and GPS
Prerequisite: CIV 142
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: CSU
This course is for all students with a basic understanding of surveying who are interested in pursuing a career in the field of Land Surveying. This 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, U.S. Public Land Survey System, Boundary Surveying, use and care of surveying equipment.
4 Units
54 Lecture hours
54 Lab hours

CIV 241
Civil Engineering Drafting and Design
Prerequisite: CIV 140; ENGT 150 or ENGT 170
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is for all students interested in the career field of Civil Design Drafting and Civil Engineering. The course 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 site development, grading and drainage, and road alignment. Preparation of construction documents for buildings and other related constructs will be included as well. Other topics to be covered include project notes, specifications, and details for Civil Engineering drawings. The students will use both hand drafting and Computer Aided Drafting (CADD) to complete projects related to the aforementioned covered topics.
3 Units
36 Lecture hours
54 Lab hours

CIV 245
Civil Engineering Design and Modeling
Prerequisite: CIV 140; ENGT 150 or ENGT 170
Advisory: READ 023 or appropriate assessment; ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: CSU
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 Bentley’s In-Roads or AutoCAD’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 the software for modeling and editing of terrain, surfaces, profiles, and cross-sections as well as earthwork computations and site planning design.
3 Units
36 Lecture hours
54 Lab hours

CIV 290
Cooperative Work Experience/Internship for Civil Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 in civil engineering design / drafting related fields and have completed or enrolled in the appropriate coursework. Instructor approval is needed 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
1 to 4 Units
3 Lecture hours
60 to 300 hours

CIT 042
Computer Literacy
Advisory: CIT 100A
This basic computer literacy course is designed to provide the student with skills necessary to understand and communicate with computers. It will include hardware and software basics, file management, computer networks, and the Internet. The course is taught on a lecture-lab basis: (3) hours in the classroom and a minimum of (2) hours in the laboratory each week. This course is taught in a six-week module during the regular semester. This course is recommended for all community college students in order to prepare them for their college-level courses which may require the knowledge of the microcomputer and its use for completion of assignments.
1 Unit
18 Lecture hours
12 Lab hours

CIT 060
Windows Operating System
Advisory: CIT 100A
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.
3 Units
54 Lecture hours
36 Lab hours

COMPUTER INFORMATION TECHNOLOGY
Division of Business

CIT 100A
Computer Literacy
Advisory: CIT 100A
This basic computer literacy course is designed to provide the student with skills necessary to understand and communicate with computers. It will include hardware and software basics, file management, computer networks, and the Internet. The course is taught on a lecture-lab basis: (3) hours in the classroom and a minimum of (2) hours in the laboratory each week. This course is taught in a six-week module during the regular semester. This course is recommended for all community college students in order to prepare them for their college-level courses which may require the knowledge of the microcomputer and its use for completion of assignments.
1 Unit
18 Lecture hours
12 Lab hours

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
1 to 4 Units
3 Lecture hours
60 to 300 hours
CIT 100A
Keyboarding
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
The course is designed to enable the student to master the alphanumerical 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.

1 Unit
9 Lecture hours
27 Lab hours

CIT 100B
Keyboarding Speed and Accuracy
Advisory: READ 023 or appropriate assessment; CIT 100A
Transfers to: CSU
This course is designed to improve students' speed and accuracy on a computer keyboard by analyzing their keyboarding techniques and prescribing specific drills to increase their timed writing rate. It is taught as a lab or on-line. This course is recommended for all students who have learned the location of the keys on the keyboard and who now want to improve their speed and accuracy in preparation of reports and general course assignments.

1 Unit
18 Lecture hours

CIT 101
Introduction to Computer Information Technology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CIT 100A
Transfers to: UC, CSU
This is an introductory computer course, which offers students both fundamental computer concepts and training in spreadsheets and database microcomputer applications. Topics include the importance of computers in business and society, the information processing cycle, the Internet, communication and networks, the latest hardware and software developments, and planning a career as a computer professional or a computer user. This is the basic computer course designed for Business majors.

3 Units
54 Lecture hours

CIT 102
Introduction to Microsoft Office
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CIT 100A
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.

3 Units
45 Lecture hours
27 Lab hours

CIT 103
Microsoft® Word®
Prerequisite: CIT 101
Advisory: READ 023 or appropriate assessment
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 professions wanting to master Microsoft Word.

3 Units
45 Lecture hours
27 Lab hours

CIT 104
Advanced Microsoft Word
Prerequisite: CIT 103
Transfers to: CSU
This course presents the advanced features of the latest version of Microsoft Word®. Specific topics include merging documents, 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 professions wanting to master Microsoft Word.

1.5 Units
18 Lecture hours
27 Lab hours

CIT 105
Microsoft PowerPoint
Advisory: CIT 101
Transfers to: CSU
This course provides the student with an overview of the presentation software Microsoft® PowerPoint®. Specific topics include planning and creating a presentation, applying and modifying text and graphics objects, using design templates, working with graphics and sound from other file formats and the World Wide Web, preparing charts, and presenting slide shows. This course is intended for students desiring to complete the requirements for the Computer Information Technology Microcomputer Specialists Degree or professionals wanting instruction in Microsoft® PowerPoint® leading to Microsoft® Office Specialist Certification.

1.5 Units
27 Lecture hours
18 Lab hours

CIT 107
Microsoft® Excel®
Prerequisite: CIT 101
Advisory: READ 023 or appropriate assessment
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 Microcomputer Specialists Degree or professionals wanting comprehensive knowledge of Microsoft® Excel®

3 Units
45 Lecture hours
27 Lab hours

CIT 108
Advanced Microsoft Excel
Prerequisite: CIT 107
Advisory: CIT 115
Transfers to: CSU
This is an advanced microcomputer spreadsheet applications course, which will provide instruction in the use of the latest version of spreadsheet software. Students will learn to integrate Excel with other Windows programs and the World Wide Web, create Excel tables, PivotTables and PivotCharts, build Excel applications using macros and buttons, and enhance workbooks with Visual Basic. This course is intended for students desiring to complete the requirements for the Computer Information Technology Computer Systems Degree, or professionals wanting to learn the advanced functions and programming features of Microsoft® Excel®.

1.5 Units
18 Lecture hours
27 Lab hours

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CIT 109
Advanced Microsoft Access
Prerequisite: CIT 101
Advisory: READ 023 or appropriate assessment
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®.
3 Units
45 Lecture hours
27 Lab hours

CIT 110
Introduction to Programming
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: UC, CSU
This course is intended for students desiring to complete the requirements for the Computer Information Technology Degree or professionals wanting to learn the fundamentals of software development using the Visual Basic programming language. This course will cover the fundamentals of software development using the Visual Basic language. Advanced topics include: user interface concepts, database management, custom controls, and Window common controls, multiple document applications, class, ActiveX and distributing programs.
4 Units
72 Lecture hours

CIT 111
Introduction to Visual Basic Programming
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 101
Transfers to: UC, CSU
This course is intended for students desiring to complete the requirements for the Computer Information Technology Degree or professionals wanting an introduction to Visual Basic Programming. This course will cover the fundamentals of software development using the Visual Basic language – Visual Basic. Course topics include: designing programs, writing the source code, compiling, linking, executing and debugging programs, data types, arithmetic/logical expressions, procedures, decisions, repetition, arrays, processing sequential files, processing random access files, graphical display, controls and objects.
4 Units
72 Lecture hours

CIT 112
Survey of Object-Oriented Programming
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 101
Transfers to: UC, CSU
This course is intended for students desiring to complete the requirements for the Computer Information Technology Degree or professionals wanting to continue developing their programming skills using Visual C++ programming language. This course will cover the fundamentals of software development using the C++ language. The 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.
4 Units
72 Lecture hours

CIT 113
C++ Programming - Introduction
Prerequisite: CIT 101
Advisory: READ 023 or appropriate assessment; CIT 111
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 Visual C++ programming language. This course will cover the fundamentals of software development using the C++ language. Advanced topics include: classes and data abstraction, operator overloading, inheritance, virtual function and polymorphism, stream I/O and Exception Handling.
4 Units
72 Lecture hours

CIT 114
Windows Configuration
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is intended 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.

3 Units
54 Lab hours

CIT 131
Windows Server Active Directory
Prerequisite: CIT 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
36 Lecture hours
54 Lab hours

CIT 133
Windows Server Applications Infrastructure
Prerequisite: CIT 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
36 Lecture hours
54 Lab hours

CIT 135
Introduction to Java Programming
Advisory: READ 023 or appropriate assessment; CIT 111
Transfers to: UC, CSU
This course is intended for students desiring to complete the requirements for the Computer Information Technology Degree or professionals wanting an introduction to Java Programming. This 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.

4 Units
72 Lecture hours

CIT 136
Advanced Java Programming
Prerequisite: CIT 135
Advisory: READ 023 or appropriate assessment
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 Java. This 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.

4 Units
72 Lecture hours

CIT 137
Introduction to Web Page Design for Business
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; CIT 101
Transfers to: CSU
This course provides students with an understanding of the fundamentals of HTML (Hypertext Markup Language) programming to design Web pages. Students will create custom Web pages for personal Internet and business Intranet environments. Students will also learn to use cascading style sheets (CSS) and scripting languages.

3 Units
45 Lecture hours
27 Lab hours

CIT 138
Introduction to Web Page Design
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; CIT 101
Transfers to: CSU
This course provides a hands-on problem-solving approach for learning the basic to more advanced features of doing business on the Internet. You will learn to use E-commerce effectively, such as: gather corporate information, make a purchase online, develop an effective company Web site, or find global trading partners. You will learn how and why electronic commerce is an important part of our economy and our society.

3 Units
54 Lecture hours

CIT 139
Introduction to Operating Systems
Advisory: CIT 060
Transfers to: UC, CSU
This course provides an in-depth study of operating systems that are currently used to create an e-business infrastructure. Operating systems discussed include Windows, Unix, Linux, Novell and Mac and their use in the industry. An in-depth study of Windows 2000 Server is also presented. Topics discussed are how to setup, install, and administer Windows 2000 Servers. This course is designed for students interested in learning operating systems and the use of operating systems in running corporate information systems.

3 Units
36 Lecture hours
54 Lab hours

CIT 145
Introduction to C# Programming
Advisory: READ 023 or appropriate assessment; CIT 111
Transfer to: UC, CSU
This course is intended for students or professionals desiring to enhance their programming skills using the Microsoft.NET framework. This course will review the fundamentals of software development, and cover software development skills using the C#.NET program. Topics include Windows-based applications, Web Services with XML (Extensible Markup Language) data exchange, components and controls, database interfaces using ADO (ActiveX Data Objects) and SQL (Structure Query Language), and graphics programming.

4 Units
72 Lecture hours

CIT 146
Advanced E-Commerce
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; CIT 101
Transfers to: UC, CSU
This course provides an in-depth study of operating systems that are currently used to create an e-business infrastructure. Operating systems discussed include Windows, Unix, Linux, Novell and Mac and their use in the industry. An in-depth study of Windows 2000 Server is also presented. Topics discussed are how to setup, install, and administer Windows 2000 Servers. This course is designed for students interested in learning operating systems and the use of operating systems in running corporate information systems.

3 Units
36 Lecture hours
54 Lab hours

CIT 152
Introduction to Web Page Design
Advisory: CIT 152
Transfers to: CSU
This course provides a hands-on in-depth study of web scripting languages for students interested in web page development. The fundamentals of programming logic will be reviewed and scripting languages such as VBScript and JavaScript will be introduced. The use of these programs and how they are used to manipulate and enhance static web pages will be addressed.

4 Units
72 Lecture hours

CIT 155
Web Page Design
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; CIT 101
Transfers to: UC, CSU
This course provides an in-depth study of operating systems that are currently used to create an e-business infrastructure. Operating systems discussed include Windows, Unix, Linux, Novell and Mac and their use in the industry. An in-depth study of Windows 2000 Server is also presented. Topics discussed are how to setup, install, and administer Windows 2000 Servers. This course is designed for students interested in learning operating systems and the use of operating systems in running corporate information systems.

3 Units
36 Lecture hours
54 Lab hours

CIT 160
Intermediate Web Page Design
Advisory: CIT 152
Transfers to: CSU
This course provides a hands-on in-depth study of web scripting languages for students interested in web page development. The fundamentals of programming logic will be reviewed and scripting languages such as VBScript and JavaScript will be introduced. The use of these programs and how they are used to manipulate and enhance static web pages will be addressed.

4 Units
72 Lecture hours

CIT 161
Web Page Design
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; CIT 101
Transfers to: UC, CSU
This course provides an in-depth study of operating systems that are currently used to create an e-business infrastructure. Operating systems discussed include Windows, Unix, Linux, Novell and Mac and their use in the industry. An in-depth study of Windows 2000 Server is also presented. Topics discussed are how to setup, install, and administer Windows 2000 Servers. This course is designed for students interested in learning operating systems and the use of operating systems in running corporate information systems.

3 Units
36 Lecture hours
54 Lab hours
CIT 162
Advanced Web Page Development
Advisory: CIT 110
Transfers to: CSU
This course provides the students with a project-based approach to developing and implementing interactive database-driven Web pages. The course offers an overview of the tools used to connect databases to Web-based applications. Students will learn to develop interactive Web sites using tools such as Active Server Pages (ASP.Net). Students entering the course should possess knowledge of relational databases, such as Microsoft Access, and HTML. This course is intended for students who wish to create Web applications integrated with databases.
3 Units
54 Lecture hours

CIT 163
Internet Server Management
Advisory: CIT 101; CIT 152; CIT 160
Transfers to: CSU
This course provides a lab-based approach to setting and administering Web, FTP, DNS, and email servers. Popular servers are discussed including Web servers, FTP servers, DNS servers, and email servers. Students learn how to install, configure, maintain and secure IIS, MS DNS, and SendMail. Web page setup and maintenance is also emphasized. This course is intended for students interested in designing and administering an intranet or Internet system for an ISP or a business.
3 Units
36 Lecture hours
54 Lab hours

CIT 187
Customer Service for Help Desk Professionals
Prerequisite: CIT 101
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
This course will provide students with the “soft” skills required to deliver high quality customer support at the help desk. In addition to information obtained during lecture, students will have the opportunity to use a hands-on approach to learning the skills of active listening, effective communication, problem solving, handling difficult customer situations, stress management, and team building. This course is intended for IT students who want to improve their customer service skills or quality for entry level positions in PC maintenance.
3 Units
54 Lecture hours

CIT 190
Introduction to Information Security
Prerequisite: CIT 101
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
This course provides an introduction to the various technical and administrative aspects of information security. The student will gain an understanding of the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. This course is intended for IT students and professionals who want to develop a foundation in information security systems.
3 Units
54 Lecture hours

CIT 192
Network Security I
Prerequisite: CIT 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is intended for students wanting to learn fundamentals of computer and information security and prepare for the CompTIA Security + certification exam. Students will learn about communication, infrastructure, and operational security, attack prevention, disaster recovery, computer forensics, use of Cryptography and Public Key Infrastructures (PKIs), remote access and Virtual Private Networks (VPN), web security, and combating malware.
3 Units
45 Lecture hours
27 Lab hours

CIT 194
Network Security II
Prerequisite: CIT 192
Advisory: READ 023 or appropriate assessment; CIT 190
Transfers to: CSU
This course is intended for IT students and professionals who want to develop a foundation in information security systems. The course is the second in a two-course series providing an in-depth study of network security. The student will gain an understanding of the key issues associated with protecting an organization’s network including identifying specific types of threats, protecting the network against those threats, and recovering from the occurrence of a threat. Specific topics covered include network access authentication, attacks on the network, e-mail protection, and Web security.
3 Units
45 Lecture hours
27 Lab hours

CIT 200
Systems Analysis and Design
Prerequisite: CIT 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides an overview of the processes, tools, and techniques used to analyze and design computer-based information systems. Students will gain an understanding of the systems development life cycle, strategic planning, feasibility studies, fact-finding techniques, data flow diagrams, structure English, object-oriented analysis and design, automated system design tools, entity-relationship diagrams, system testing, documentation, training and maintenance activities. Students will apply the course concepts through case studies. This course is suitable for students seeking a career in computer information technology.
3 Units
45 Lecture hours
3 Lab hours

CIT 210
Cisco® Networking I
Prerequisite: CIT 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CIT 180
Transfers to: CSU
This course is the first of two courses designed to prepare students for the ICND 1 examination to achieve
CCENT (Cisco® Certified Entry Networking Technician) Certification. Students will be introduced to networking concepts including but not limited to the OSI reference model, IP addressing, cabling, network topologies, network security, and configuration networking equipment. Students will be introduced to configuring Cisco® networking devices and create physical and virtual networks.

3 Units
45 Lecture hours
27 Lab hours

CIT 211
Cisco® Networking II
Prerequisite: CIT 210 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CIT 101; CIT 180
Transfers to: CSU
This course is the second of two courses designed to prepare students for the ICND 2 examination to achieve CCENT (Cisco® Certified Entry Networking Technician) certification. Students will learn to design and configure LANs (Local Area Networks), configure device security, design and configure VLANs (Virtual Local Area Networks), configure Routers, understand routing protocols, and understand NAT (Network Address Translations) for IPv4.
3 Units
45 Lecture hours
27 Lab hours

CIT 212
Cisco® Networking III
Prerequisite: CIT 211 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CIT 101; CIT 180
Transfers to: CSU
This course is the first of two courses designed to prepare students for the ICND-2 examination to achieve CCNA (Cisco Certified Network Associate) certification. Students will be introduced to configuring and troubleshooting routers and switches in a large and complex network. Students will also learn to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks along with developing skills needed to implement DHCP and DNS operations in a network.
3 Units
45 Lecture hours
27 Lab hours

CIT 213
Cisco® Networking IV
Prerequisite: CIT 212 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CIT 101; CIT 180
Transfers to: CSU
This course is the second of two courses designed to prepare students for the ICND-2 examination to achieve CCNA (Cisco Certified Network Associate) certification. Students will learn about WAN technologies and network services for complex networks. Students will learn to troubleshoot network devices and issues with data link protocols, and implement IPSec and virtual private networks.
3 Units
45 Lecture hours
27 Lab hours

CIT 290
Cooperative Work Experience/Internship for Computer Technology Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
Student Paid Internship:
1 unit/75 hours;
2 units/150 hours;
3 units/225 hours
1 to 3 Units
3 Lecture hours

CORRECTIONS
Division of Public Safety
CITR 101 (C-ID AJ 200)
Introduction to Corrections
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an overview of the history and trends of adult and juvenile corrections. It will focus 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 will also be examined. This course has been identified by the Correctional Peace Officer Standards and Training Board of the Peace Officers Association to fulfill educational requirements of the CPOST Certificate for newly hired officers after July 1, 1995 by CDC and CYA.
3 Units
54 Lecture hours

COOPERATIVE WORK EXPERIENCE-
GENERAL
Division of Career & Technical Education
CIT 213
Cisco® Networking IV
Prerequisite: CIT 212 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is the second of two courses designed to prepare students for the ICND-2 examination to achieve CCNA (Cisco Certified Network Associate) certification. Students will learn about WAN technologies and network services for complex networks. Students will learn to troubleshoot network devices and issues with data link protocols, and implement IPSec and virtual private networks.
3 Units
45 Lecture hours
27 Lab hours

CIT 290
Cooperative Work Experience/Internship for Computer Technology Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 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
1 to 3 Units
3 Lecture hours

CORRECTIONS
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3 Units
54 Lecture hours
CORR 104
Control and Supervision in Corrections
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CORR 101
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an overview of supervision of inmates in the local, state and federal correctional institutions. The issues of control in a continuum form of institutional daily living through crisis situations will be introduced and discussed. The course will emphasize the role played by the offender and the correctional worker. Topics include inmate subculture, violence and 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 will also be discussed. This course has been identified by the Correctional Peace Officer Standards and Training Board of the California Department of Corrections, California Youth Authority, and California Correctional Peace Officers Association to fulfill educational requirements of the CPOST Certificate for newly hired officers after July 1, 1995 by CDC and CYA.
3 Units
54 Lecture hours

CORR 106
Legal Aspects of Corrections
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; CORR 101
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an awareness of the historical framework, concepts, and precedents that guide correctional practice. Course material will broaden the individual’s perspective of the corrections environment, civil rights of prisoners, and responsibilities and liabilities of corrections officials. This course has been identified by the Correctional Peace Officer Standards and Training Board of the California Department of Corrections, California Youth Authority, and California Correctional Peace Officers Association to fulfill educational requirements of the CPOST Certificate for newly hired officers after July 1, 1995 by CDC and CYA.
3 Units
54 Lecture hours

CORR 134
Introduction to Interviewing and Counseling
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CORR 101
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an overview of the techniques available to entry level practitioners in counseling and interviewing. While it is an introduction to approaches of behavior modification through interviewing and counseling, some of the advanced methods utilized by professional counselors such as game concepts, transactional analysis, sensitivity and confrontation methods will also be examined. The development of positive relationships between the client and support personnel will be stressed.
3 Units
54 Lecture hours

CORR 208
Leadership in Corrections
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; CORR 101
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an overview of the skills necessary 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.
3 Units
54 Lecture hours

CORR 209
Case Load Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an introduction 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 will also be addressed.
3 Units
54 Lecture hours

CORR 210
Supervision in Public Safety
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an overview of the characteristics needed to be an effective supervisor in a correctional setting. Topics include basic supervision responsibilities, the importance of effective interpersonal communications, and managing personnel complaints in a prison setting.
3 Units
54 Lecture hours

CORR 235
Conflict Resolution
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed to provide Corrections or other interested students with an in-depth understanding of conflict situations in which abnormal or non-normal behavior is manifested. Topics covered include concepts of 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 will also be discussed.
3 Units
54 Lecture hours

CORR 264
Inmate Discipline in Corrections
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; AJ 101
Transfers to: CSU
This course is designed to provide Corrections or other interested students with 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.
3 Units
54 Lecture hours

CORR 265
Supervision of Sex Offenders
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; AJ 101
Transfers to: CSU
This course is designed to provide California Peace Officers or other interested students with instruc-
tion into the correctional process of supervision of inmates who have been convicted of sex offenses. Topics include human sexuality and dys-function, theories of sexual offense, offender typologies and supervision techniques. The curriculum follows that recommended by the California Commission on Peace Officer Standards and Training and the California Corrections Commission on Peace Officer Standards and Training.

3 Units
54 Lecture hours

CORR 290
Public Safety Communications
Advisory: ENGL 035 or ENLA 030 or appropriate assessment; READ 023 or appropriate assessment; AJ 011
Transfers to: CSUI
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 facts of information and ideas in a clear and logical manner for public safety reports. Students will gain practi-cal experience in interviewing, note taking, report writing, and testifying.

3 Units
54 Lecture hours

CORR 43505
Team Cell Extractions
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to increase custody officers or other Corrections student’s knowledge and skills in the task of cell extractions. The focus will be on risk management, state and federal laws of authority, agency force policy, and the use of special weapons.
0.063 to 0.5 Units
9 to 40 Lecture hours

CORR 43506
Tactical Weapons Qualification
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to qualify custody officers or other Corrections students in the use of “less lethal weapons”. Weapons included are the 37mm A.R.W.E.N., 37mm stinger shot, stingball grenade, and the MK-46 riot extinguisher. Nomenclature, operation, and safety considerations for each weapon will be covered.
0.063 to 0.5 Units
9 to 40 Lecture hours

CORR 43507
Suicide Prevention
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to address the issue of suicide for correctional officers or other Corrections students as it occurs in custody settings. “At risk” inmates and the events that trigger suicidal situations will be identified. Procedures for prevention, identifying suicide risk, and intervention measures will be discussed.
0.063 to 0.5 Units
9 to 40 Lecture hours

CORR 43508
Squad Tactics and Riot Training
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to provide the custody officer or other Correctional students with information on agency approved emergency response procedures. The topics to be covered include tactical formations in squads, platoon size deployments, special weapons review, riot equipment, and chemical agents.
0.063 to 0.5 Units
9 to 40 Lecture hours

CORR 43509
Special Weapons Training
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to familiarize Correctional or other interested students with nomenclature, operations, and tactical deployment. An emphasis will be placed on special weapons such as the taser, electronic immobilization device, 37 MM arwen, and 37 MM stinger shot cartridge.
0.063 to 0.5 Units
9 to 40 Lecture hours

CORR 43510
Senior Supervision
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to familiarize Correctional or other interested students with the basic skills required to effectively supervise employees in a custody environment. Topics to be presented are individual values, ethics/integrity, performance evaluations, and incident report preparation.
0.063 to 0.5 Units
9 to 40 Lecture hours

CORR 43511
Basic Report Writing Skills
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed for custody facility employees or other interested students with limited report writing skills. The course will provide students with the basic skills needed to write a report based on the results of an investigation.
0.063 to 0.5 Units
9 to 40 Lecture hours

CORR 43512
Jail Intelligence Gathering
Prerequisite: PAC 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to familiarize Corrections or other interested students with the principles and practice of analytical interviewing. The course will provide students with the basic skills needed to develop the interviewer’s skills and enhance success during interviews.
0.063 to 0.5 Units
9 to 40 Lecture hours
CORR 43516  Hot Fire  
Prerequisite: PAC 040  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
This course is designed to familiarize Corrections or other interested students with the Penal Institution Fire Safety Systems. Demonstrations of burning materials and extinguishing agents will be presented. Students will experience smoke and heat environments and the use of self-contained breathing apparatus. Team work, dangers, and hazards of jail fires will be stressed.  
0.063 to 0.5 Units  
9 to 40 Lecture hours

CORR 43518  Emergency Procedures  
Prerequisite: PAC 040  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
This course is designed to familiarize Corrections or other interested students with agency approved emergency response procedures. Topics covered include tactical formations, disturbance suppression, evacuation plans and related equipment utilization.  
0.063 to 0.5 Units  
9 to 40 Lecture hours

CORR 43519  Drug and Alcohol Awareness for Supervisors  
Prerequisite: PAC 040  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
This course is designed to familiarize correction supervisors or other interested students with techniques for recognizing symptoms relating to drug and alcohol abuse. Supervisory strategies for creating a safe work environment will be presented.  
0.063 to 0.5 Units  
9 to 40 Lecture hours

CORR 43524  Narcotics Identification and Investigation  
Prerequisite: PAC 040  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
This course is designed to assist Corrections or other interested students with the development of technical knowledge and procedures for basic narcotics investigation in the custody setting. An emphasis will be placed on drug recognition and the processes by which drugs enter a custody facility.  
0.063 to 0.5 Units  
9 to 40 Lecture hours

CORR 43527  Gangs in the Custodial Environment  
Prerequisite: PAC 040  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
This course is designed to familiarize Corrections or other interested students with the background and future expectations of gang activity within the custodial environment.Topics of identification, behavioral traits, and issues of inmate and officer safety will be presented.  
0.063 to 0.5 Units  
9 to 40 Lecture hours

COUN 100  Introduction to College Survival  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
Transfers to: CSU  
This course is intended for first-time college students in need of developing the knowledge and skills necessary to successfully transition into higher education. Students will learn and apply information in the following areas: vocabulary of higher education, college requirements, policies and procedures, campus support services, and self-management as it relates to higher education. The emphasis in the class will be on first-year retention and success.  
1.5 Units  
27 Lecture hours

COUN 101A(Same as EDEV 101)  College and Life Success  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: CSU  
(*The UC will grant a maximum of 3 units credit for COUN 101, 101A, 101B and 151 combined)  
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, life-long learning, self-management, health and wellness, interpersonal communication in a diverse world, and introduction to career and educational planning. Students will learn about the purpose, demands, requirements, and support services of higher education including both Rio Hondo College and four year institutions.  
1.5 Units  
27 Lecture hours

COUN 101B  College and Life Success  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: UC (credit limit*), CSU  
(*The UC will grant a maximum of 3 units credit for COUN 101, 101A, 101B and 151 combined)  
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, life-long learning, self-management, health and wellness, interpersonal communication in a diverse world, and introduction to career and educational planning. Students will learn about the purpose, demands, requirements, and support services of higher education including both Rio Hondo College and four year institutions.  
1.5 Units  
27 Lecture hours

COUN 105  Orientation and Education Planning  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
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.

0.5 Units
9 Lecture hours

COUN 151
Career Exploration and Life Planning
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 3 units credit for COUN 101, 101A, 101B and 151 combined)
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, factors that contribute to college success, life skills, adult workplace competencies, values, interest, abilities, and personality, labor market trends in a global economy, and successful job search and workplace behaviors.
3 Units
54 Lecture hours

COUN 151A
Career Exploration and Life Planning
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
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, factors that contribute to college success, life skills, adult workplace competencies, values, interest, abilities, and personality, labor market trends in a global economy, and successful job search and workplace behaviors.
1 Unit
18 Lecture hours

COUN 151C
Career Exploration and Life Planning
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
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, factors that contribute to college success, life skills, adult workplace competencies, values, interest, abilities, and personality, labor market trends in a global economy, and successful job search and workplace behaviors.
1 Unit
18 Lecture hours

COUN 290
Cooperative Work Experience/Internship for Student Services Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course supports and reinforces on-the-job training in the Student Services 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 Student Services 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 Student 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
1 to 4 Units
3 Lecture hours
60 to 300 hours

DANCE

Division of Kinesiology, Dance, and Athletics

Dance Activity Courses
Dance activity courses may be used in place of kinesiology (formerly P.E.) activity courses to fulfill degree requirements.

DANC 114
Conditioning and Alignment for the Dancer
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed to provide the physical training and preparation for students interested in Dance, Yoga, and/or Pilates and is suitable for individuals seeking to move with greater efficiency and less pain in everyday activities. Students will learn how to move the body in a safe and effective manner and develop strength, flexibility, proper alignment, agility, balance and coordination. Course work is designed for those wishing to work at a more deliberate pace and in a non-competitive atmosphere, or who are recovering from prior injury.
1 Unit
54 Lab hours

DANC 150
Introduction to World Dance
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
Introduction to World Dance offers dance and non-dance students an opportunity to study cultural diversity through the activity of dance. Students learning how to analyze and perform basic movement patterns as they compare and contrast the social conventions, religious traditions, and historic contexts represented in a collection of multi-cultural dance forms.
1 Unit
54 Lab hours

DANC 151
Modern Dance I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
Modern I is a studio course offering the beginning modern dancer an introduction to the fundamental principles of modern dance. This 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
Jazz Dance I
DANC 154
Ballet I
DANC 153
Dance Rehearsal and Performance
Corequisite: DANC 180
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
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.
1 Unit
54 Lab hours

DANC 152

Dance Repertory
Corequisite: DANC 180
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
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.
3 Units
18 Lecture hours
108 Lab hours

DANC 162
Dance Production
Corequisite: DANC 180
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: CSU
This course offers an introduction to the technical aspects of dance production and is designed for the beginner level dance student. Topics of exploration include basic staging, costume design, set design, make-up, lighting, sound production, and publicity. Productions will be presented for public performance either on and/or off campus.
3 Units
18 Lecture hours
108 Lab hours

DANC 156
Latin Social Dance
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
Students will learn various types of beginning and American-style Latin dance forms that may include Salsa, Cha Cha, Samba, Rumba, Merengue, Bachata and Bolero. This course emphasizes the use of proper lead-and-follow techniques as a form of communication between partners, and develops proper alignment, balance, body awareness, and rhythmic coordination which are necessary parts of appropriate social dancing technique. A basic understanding of partner dancing etiquette will also be addressed. The course appeals to students interested in the social aspect of dance, ones seeking experience in partnering work, and dancers seeking careers in dance.
1 Unit
54 Lab hours

DANC 179
Dance History
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
This course provides an overview of the historical and cultural context of dance. It explores the evolution of dance, from ancient rituals to modern forms, and examines the influences of various cultures and historical periods. Students will analyze dance as a form of expression and communication, and gain an understanding of the development of dance as an art form.
3 Units
18 Lecture hours
108 Lab hours

DANC 157
Hip-Hop Dance
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
Students will learn various forms of hip-hop dance, including pop and lock, hip-hop funk, syncopations and rhythms. The class will explore the use of space, energy, rhythm and improvisation while emphasizing body control, alignment, balance, and use of weight changes. A basic history of hip-hop culture will be discussed. The course appeals to dancers seeking careers in dance, students looking to expand their dance skills, and those wanting an aerobic work-out.
1 Unit
54 Lab hours

DANC 159
Choreography I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Corequisite: DANC 180
Transfers to: UC, CSU
Choreography I is an introduction to the art and craft of dance composition. Through lecture and activity, students will learn how to incorporate the elements of dance: body, space, time, and energy, in order to create meaningful dance works. Basic elements of choreography, including form, design, motivation, phrasing, gesture, rhythm, dynamics, musical accompaniment, and production basics, will be explored through improvisational exercises and experimentation. Additionally, students will learn to analyze dance critically. The class will culminate in the presentation of student choreography.
3 Units
36 Lecture hours
54 Lab hours

DANC 154
Jazz Dance I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
Highly visible on stage and screen, Jazz Dance is an eclectic and versatile contemporary art form with deep roots in African American dance. Jazz Dance I is designed to introduce the beginning student to the fundamental polyrhythms, physical skills, terminology, and historical context that form the basis of Jazz technique. A variety of Jazz dance styles will be introduced, and may include tap, musical theater, contemporary lyrical, Latin, Cuban, Afro-Caribbean, pop, funk, hip-hop, Lindy Hop, and other African-American social dances that form the basis of this dance genre in the United States. Students may take any combination of four Jazz courses total.
1 Unit
54 Lab hours

DANC 165
Dance History
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
This course provides an overview of the historical and cultural context of dance. It explores the evolution of dance, from ancient rituals to modern forms, and examines the influences of various cultures and historical periods. Students will analyze dance as a form of expression and communication, and gain an understanding of the development of dance as an art form.
3 Units
18 Lecture hours
108 Lab hours

DANC 172
Dance Repertory
Corequisite: DANC 180
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
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.
3 Units
18 Lecture hours
108 Lab hours

DANC 174
Dance Production
Corequisite: DANC 180
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
This course offers an introduction to the technical aspects of dance production and is designed for the beginner level dance student. Topics of exploration include basic staging, costume design, set design, make-up, lighting, sound production, and publicity. Productions will be presented for public performance either on and/or off campus.
3 Units
18 Lecture hours
108 Lab hours
This course introduces the forces and figures which have shaped dance through history. Students will study dance forms from ancient to modern times through readings, films, and class discussions with particular focus on Western concert dance. Comparisons of various dance techniques, theories, and personalities who have contributed to the art of dance will also be covered.

3 Units
54 Lecture hours

DANC 180 Performance
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 251
Transfers to: UC, CSU
This course provides dance students the opportunity to participate in dance productions. Productions will be presented for public performance either on and/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 to a maximum of 4 units in different semesters.
1 Unit
54 Lecture hours

DANC 182 Dance Ensemble
Corequisite: DANC 180
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; DANC 151; DANC 159; DANC 162; DANC 251
Transfers to: CSU
This course provides an opportunity for dance students to develop and practice dance ensemble skills necessary to rehearse 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 will be covered. Productions will be presented for public performance either on and/or off campus.
3 Units
18 Lecture hours
108 Lab hours

DANC 199 Dance Appreciation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This survey course is a multi-cultural exploration of one of the world's oldest and most universal art forms. The history of ballet, jazz, modern, hip-hop, and musical theater dance are investigated through lecture, video and demonstration. In addition, dance will be analyzed in terms of Body, Effort, Space, and Shape and examined for cultural, social and political influences. This course is designed for students who want to gain an understanding of dance and for dance majors who want to broaden their knowledge.
3 Units
54 Lecture hours

DANC 251 Modern Dance II
Prerequisite: DANC 151
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
Modern II is a studio course offering the intermediate modern dancer an opportunity to deepen and strengthen fundamental skills acquired in Modern I. While continuing to develop proper alignment and modern dance technique, the intermediate student will learn to perform combinations while shifting spatial orientation and integrating improvisation as required in auditions. Learning to create movement phrases, the Modern Dance II student will develop a sense of artistry and dynamic phrasing necessary for performing. Further understanding and identifying the underlying movement principles of modern dance, students will hone their technical skills in preparation for transfer or careers in dance. This course may be repeated three times for credit.
1 Unit
54 Lab hours

DANC 253 Ballet II
Prerequisite: DANC 153
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
Ballet II is an intermediate level course designed for students who wish to further develop the 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 will also be introduced. Students will have the opportunity to perform in an informal showing or concert setting. This course may be repeated three times for credit.
1 Unit
54 Lab hours

Directed Studies
Division of Career & Technical Education & Instructional Operations
299 Directed Study
Transfers to: UC, CSU
The course 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. The paperwork shall include the number of units, and hours of study required for the arrangements for consultation with the instructor and the work product to be evaluated. (Title V, Section 58051) 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.

Offered in the Following Disciplines:
- Accounting
- Administration of Justice
- Art
- Astronomy
- Biology
- Chemistry
- Child Development
- Education
- Engineering
- English
- Environmental Technology
- Fine Arts
- Fire
- French
- Geography
- Geology
- Health Education
- History
- Humanities
- Journalism
- Kinesiology
- Literature
- Management
- Mathematics
- Music
- Nursing
- Philosophy
- Physical Science
- Political Science
- Radio
- Social Science
- Sociology
- Spanish
- Speech
- Units
- Theatre Arts
- Trade and Industrial
- Vocational Nursing

DRAFTING
See ENGINEERING TECHNOLOGY
Division of Career & Technical Education

DRAF 299
Directed Study: Drafting
Transfers to: UC, CSU

Independent Study/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.

1 to 3 Units
54 to 216 Lab hours

ECONOMICS
Division of Behavioral & Social Sciences

ECON 101 (C-ID ECON 202)
Principles of Macroeconomics
Prerequisite: MATH 050 or MATH 050D or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: UC, CSU

This is an introductory course in which students learn to describe and analyze the performance and policies of national economic systems, with an emphasis on the US economy. It is intended for Economics or Business majors as well as to satisfy General Education requirements. Topics include production possibilities and tradeoffs; comparative economic systems; 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.

3 Units
54 Lecture hours

ECON 102
Principles of Microeconomics
Prerequisite: MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

This is an introductory course in economic analysis of markets, intended for Economics and Business majors as well as to satisfy General Education requirements. It may be taken prior to ECON 101. Students will learn how markets work to coordinate consumers and producers in an economy, various causes of the failure of free markets and policies used to correct or regulate market behavior.

3 Units
54 Lecture hours

ECON 102H
Principles of Microeconomics Honors
Prerequisite: ENGL 101 with a grade of “C” or better; MATH 070 or MATH 070D or MATH 073 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU

This is an introductory course in economic analysis of markets, intended for Economics and Business majors as well as to satisfy General Education requirements, and may be taken by any student who has completed ENGL 101 with a “C” or better. It may be taken prior to ECON 101. Students will learn how markets work to coordinate consumers and producers in an economy, various causes of the failure of free markets and policies used to correct or regulate market behavior. Students will do a research project on an actual economic policy or a theoretical view.

3 Units
54 Lecture hours
ECON 106
Economics of Contemporary Issues
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
The course is an introductory course designed for students interested in exploring how the tools of economics are used to analyze and debate critical issues facing society today. Economics will be applied to issues such as: health care, trade deficits, social security, crime, pollution, alternative energy, income inequality, global development, housing and homelessness, and immigration.
3 Units
54 Lecture hours

ECON 135 (Same as POLS 135)
International Political Economy
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

ED 110
Introduction to Teaching
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 will be examined, the diversity of the public school system will be discussed, and students will gain experience in all three levels of the K-12 system. This course is intended for students considering a career in teaching.
3 Units
54 Lecture hours

ED 120
Tutoring Reading in the Elementary School
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: CSU
This course provides preparation for a successful tutoring experience in reading at the elementary school level. Instruction will focus upon tutoring principles, stages of reading acquisition from pre-kindergarten through upper elementary school levels as well as materials, approaches, and activities that are appropriate for tutoring learners at these various stages of development. This course is designed for those students who intend to pursue a career in teaching at the elementary school level.
1 Unit
18 Lecture hours

ED 130
Tutoring Reading in the Schools: Seminar and Field Work
Prerequisite: READ 022 or appropriate assessment
Prerequisite/Corequisite: ED 120
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: CSU
This course provides the student with supervised experience tutoring reading in an elementary-educational setting (grades K-6). Participants will apply their knowledge of the reading process and tutorial skills in tutoring sessions with children at an off-campus site. A weekly class meeting provides the academic component to the tutoring experience, reinforcing and expanding the application of concepts gained in the prerequisite/corequisite course. This course partially fulfills the requirements for students participating in the AmeriCorps grant program.
2 Units
18 Lecture hours
225 Lab hours

EDUCATIONAL DEVELOPMENT
Division of Disabled Students Program & Services

EDEV 020
Literacy Skills I
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.
3 Units
54 Lecture hours

EDEV 021
Literacy Skills II
Prerequisite: Appropriate skill level demonstrated through the RHC Placement Process
Corequisite: Concurrent enrollment in EDEV 021L
This course is designed for students with learning 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 concurrently enroll in the one-unit reading lab, EDEV 021L.
3 Units
54 Lecture hours

EDEV 021L
Literacy Skills II Lab
Prerequisite/Corequisite: EDEV 021
This course is a skills class designed for students with learning disabilities who need to improve reading comprehension and vocabulary through individually prescribed lab work. Students will complete reading tasks designed to complement the activities of their reading course. Students are required to be concurrently enrolled in EDEV 021, Literacy Skills II.
0.5 Units
27 Lab hours

EDU 090
Tutoring Skills
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
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.
1 Unit
18 Lecture hours
EDEV 022
Basic Arithmetic
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.
3 Units
54 Lecture hours

EDEV 024
Assessment for Learning Disabilities
Advisory: 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.
1 Unit
54 Lab hours

EDEV 025
Adaptive Computer Technology
This course helps disabled students to utilize adaptive computer hardware and software. Material will be provided which is relevant for each student’s needs. Emphasis will also be placed on knowledge of appropriate compensatory strategies and familiarity with disability equipment. Documentation of a verifiable disability needs to be provided to the DSP&S office to enroll in the course. This is a non-degree credit course.
1 Unit
54 Lab hours

EDEV 026
Consumer Math
This course is specifically designed for the Developmentally Delayed Learner (DDL) and students with special learning needs who would like 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; time cards/taxes and benefits; and basic reading, writing and math across the curriculum are emphasized in the course. Guest speakers will be invited and student projects will reflect the students’ conceptualization and ability to put into practice what is learned. This is a non-degree credit course.
3 Units
54 Lecture hours

EDEV 027
Strategies for Career Success
Prerequisite: Students must meet measured appropriate adaptive behaviors that meet California Community Colleges Title V regulations for DSP&S
Corequisite: EDEV 027L
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.
3 Units
54 Lecture hours

EDEV 027L
Strategies for Career Success Lab
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.
1 Unit
54 Lab hours

EDEV 030
English Skills Workshop
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 course and is offered on a credit/no credit basis. Students are required to concurrently enroll in EDEV 030, English Skills.
1 Unit
54 Lecture hours

EDEV 031
Acquired Brain Injury Orientation
Corequisite: Concurrent enrollment in EDEV 031L
This course is designed to orient students with ABI to the structure, goals, and services of the Acquired Brain Injury Program at Rio Hondo College. The course serves as an introduction to cognitive retraining and provides systematic instruction for increased attention and concentration skills. Course activities are designed to refine problem-solving and improve memory capabilities. Development of interpersonal and psychosocial skills which are necessary to function successfully in work, social, and educational environments will be emphasized. Students are required to concurrently enroll in EDEV 031L ABI Orientation Lab. Students may repeat this course to improve skills through further instruction and practice. This course
EDEV 031L
Acquired Brain Injury Orientation Lab
Corequisite: Concurrent enrollment in EDEV 031
This course utilizes computer-assisted instruction to improve cognitive skills in attention, memory, and reasoning in students with acquired brain injuries. Emphasis is on reinforcing associated learning strategies and techniques specific to each student’s cognitive strengths. Students are required to concurrently enroll in EDEV 031 Acquired Brain Injury Orientation. Students may repeat this course to improve skills through further instruction and practice. This course may be taken once and repeated three times for credit.
1 Unit
54 Lab hours

EDEV 101
College and Life Success (Same as COUN 101)
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: CSU
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, life-long learning, self-management, health and wellness, interpersonal communication in a diverse world, and introduction to career and educational planning. Students will learn about the purpose, demands, requirements, and support services of higher education including both Rio Hondo College and four year institutions.
3 Units
54 Lecture hours

EDEV 134
Study Techniques
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
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.
3 Units
54 Lecture hours

ELECTRONICS
Division of Career & Technical Education

ELEC 041
High Reliability Electronic Fabrication
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
This course introduces the student to the techniques required for the use of hand tools in the building and maintenance of electronics equipment. Particular attention is devoted to soldering and other assembly operations which must frequently be performed by electronic technicians.
3 Units
36 Lecture hours
54 Lab hours

ELEC 050
Introduction to the Electrical Industry
Advisory: READ 023 or appropriate assessment
This introductory course is for a general audience and for those contemplating a career in the power line (electrical) industry. Students will become acquainted with the basic concepts of terminology and will receive hands-on experience with components and measuring equipment.
2 Units
27 Lecture hours
27 Lab hours

ELEC 051
Electrical Power Distribution Systems
Prerequisite: ELEC 050
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
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, distribution, substations, transformers, and applied mathematics related to the components of an electrical power distribution system.
3 Units
45 Lecture hours
27 Lab hours

ELEC 052
Distribution of Electrical Power
Prerequisite: ELEC 051
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
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.
3 Units
45 Lecture hours
27 Lab hours

ELEC 060
D.C. and A.C. Fundamentals
Advisory: READ 023 or appropriate assessment
This introductory course in D.C. & A.C. electricity is for general audience and for those contemplating a career in the power line (electrical) industry. Course content includes basic theory, resistance, capacitance, inductance, simple D.C. & A.C. circuits, transformers, measuring instruments, batteries, motors & generators.
3 Units
45 Lecture hours
27 Lab hours

ELEC 061
Fundamentals of Wire and Cabling
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
2 Units
27 Lecture hours
27 Lab hours
ELEC 062
Fundamentals of Fiber Optics
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
2 Units
27 Lecture hours
27 Lab hours

ELEC 063
Fundamentals of Wireless Communication
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
2 Units
27 Lecture hours
27 Lab hours

ELEC 064
Home Technology Integration Technologies
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
4 Units
54 Lecture hours
54 Lab hours

ELEC 070
Applied Telecommunications Technology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
This is an introductory course that will examine the theory behind present day wireless (celling) 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.
3 Units
45 Lecture hours
27 Lab hours

ELEC 071
Mobile and Wireless Communications
Prerequisite: ELEC 070
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is an introduction to the field of Alternating Current (A/C) 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.
4 Units
54 Lecture hours
54 Lab hours

ELEC 102
A/C Electronic Circuits and Devices
Prerequisite: MATH 030 or MATH 030D or MATH 033 or appropriate assessment, or TCED 080
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is an introduction to the field of Alternating Current (A/C) 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.
4 Units
54 Lecture hours
54 Lab hours

ELEC 105
Computer Simulation and Fabrication of Electronic Circuits
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.

2 Units
18 Lecture hours
54 Lab hours

ELEC 108
Introduction to Solid State Devices and Circuits
Prerequisite: ELEC 101 and 102
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 are diodes, BJTs and FET transistors, special diodes, Thyristors (SCR), IC’s (digital and analog), typical applications of each device in amplifier, regulator, oscillator, timer and digital circuits. Students will 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 including signal tracing and troubleshooting, 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. 4 Units
54 Lecture hours
54 Lab hours

ELEC 111
Introduction to Digital Electronics
Prerequisite: ELEC 101 and 102
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is an introduction to digital electronic principles common to all areas of electronics. The course will emphasize study of number systems and representations such as Binary codes, Hexadecimal codes and Boolean algebra. 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 CMOs, 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 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. 4 Units
54 Lecture hours
54 Lab hours

ELEC 109
Linear, Analog Circuits and Devices
Prerequisite: ELEC 101 and 102
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 circuits. This course builds on the foundation laid in Electronics 108, continuing the study of solid state devices and circuits with emphasis on the Integrated Circuit (IC) and applications. Students will analyze circuits and solve problems utilizing basic network analysis methods. IC device characteristics are explored. Input/output impedance, drift, offset, bias current, Gain, Frequency Response and simple modeling are among the topics considered. Use of device data sheets and application notes will be introduced to provide training in the selection of devices for specific purposes. Laboratory work provides experience with the design and test 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 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. 4 Units
54 Lecture hours
54 Lab hours

ELEC 208
Advanced Solid State Devices and Circuits
Prerequisite: ELEC 108
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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, SCRs and other Integrated Circuits-IC’s (digital and analog), typical applications of each device in inverters, converters, and switching power supplies. Students will analyze circuits and solve problems utilizing basic network analysis methods with emphasis on advanced biasing, cascading, coupling and phase shifting. Laboratory work provides experience with the design and test of advanced solid state device circuits including signal tracing and troubleshooting, use of schematic diagrams 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. 4 Units
54 Lecture hours
54 Lab hours

ELEC 211
Advanced Digital Electronics
Prerequisite: ELEC 111
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
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 CMOs, 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 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. 4 Units
54 Lecture hours
54 Lab hours
EUT 110  
Electrical Utility Technology I  
Prerequisite: EUT 116  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; ELEC 050  
Transfers to: CSU  
This course is a continuation of alternating current circuits, A.C. and D.C. motors and generators, pole and overhead construction, and transformers and voltage regulators. Topics include schematics, shunt and series capacitors and safety issues outlined by the Occupational Safety and Health Act (OSHA). Calculating power used by electrical circuits is also covered. This course is intended for students that are contemplating a career in the electrical utility industry.  
3 Units  
45 Lecture hours  
27 Lab hours  

EUT 112  
Electrical Utility Technology II  
Prerequisite: EUT 110  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; ELEC 050  
Transfers to: CSU  
This course involves the study of the power distribution and line construction industry. Topics include methods of producing electricity, A.C. and D.C. meters and circuitry and electric batteries. Students will also learn about Ohm’s Law, Kirchhoff’s Law, and electromagnetic induction. This course is intended for students that are contemplating a career in the electrical utility industry.  
3 Units  
45 Lecture hours  
27 Lab hours  

EUT 114  
Electrical Utility Technology III  
Prerequisite: EUT 112  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; ELEC 050  
Transfers to: CSU  
This course is a study of alternating current circuits, A.C. and D.C. motors and generators, pole and overhead construction, and transformers and voltage regulators. Topics include schematics, shunt and series capacitors and safety issues outlined by the Occupational Safety and Health Act (OSHA). Calculating power used by electrical circuits is also covered. This course is intended for students that are contemplating a career in the electrical utility industry.  
3 Units  
45 Lecture hours  
27 Lab hours  

EUT 116  
Electrical Utility Technology IV  
Prerequisite: EUT 114  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; ELEC 050  
Transfers to: CSU  
This course is a continuation of alternating current circuits, A.C. and D.C. motors and generators, pole and overhead construction, and transformers and voltage regulators. Topics include schematics, shunt and series capacitors and safety issues outlined by the Occupational Safety and Health Act (OSHA). Calculating power used by electrical circuits is also covered. This course is intended for students that are contemplating a career in the electrical utility industry.  
3 Units  
45 Lecture hours  
27 Lab hours  

EUT 118  
Electrical Utility Technology V  
Prerequisite: EUT 116  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; ELEC 050  
Transfers to: CSU  
This course covers advanced theory of electrical distribution lines and systems. Other topics include phasing, system groundings, substations and the use of electrical instruments. Students will also learn how to connect transformers in accordance with the state code. Usage of fusing tables and reference tables, including technical symbols are also covered. This course is intended for students that are contemplating a career in the electrical utility industry.  
3 Units  
45 Lecture hours  
27 Lab hours  

EMT 093  
Emergency Medical Technician  
Prerequisite: FTEC 121  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; BIOL 125  
This course is designed to provide instruction on performing life support measures on critically ill individuals. Topics include medical emergencies, trauma, treatment and medical conditions. The course is intended for students that are contemplating a career in the emergency medical field.  
4 Units  
54 Lecture hours  
54 Lab hours
employment as an ambulance driver or ambulance attendant. After successful completion of this course, students will be authorized to take the National Registry EMT examinations and then, if required, seek certification as an EMT through the Los Angeles County Department of Health or other local EMS accrediting agencies. Topics discussed include pre-hospital care terminology, cardiovascular emergencies, pre-hospital childbirth, communicable disease, extraction tools and equipment, automatic external defibrillation and an understanding of the Emergency Medical System. Students must pass a background check and EMT medical physical with a 10-panel drug screen.

8 Units
117 Lecture hours
81 Lab hours

EMT 0931
Emergency Vehicle Operations
Prerequisite: READ 023 or appropriate assessment; Possession of a class “C” license.
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
This course is designed to certify students as driver operators for both Class “B” commercial driver’s license and for ambulance drivers certification in California. A Class “B” commercial drivers permit will be obtained while in this course and a Class “B” commercial driver’s license may 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 certification through the California State Fire Marshal’s office in Driver Operator IA and IB. A physical is required to meet California State standards in regards to licensing.
4 Units
54 Lecture hours
54 Lab hours

EMT 290
Cooperative Work Experience/Internship for Emergency Medical Technician Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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
1 to 4 Units
3 Lecture hours
60 to 300 hours

ENGINEERING
Division of Mathematics & Sciences

ENGR 217
Electric Circuit Analysis
Prerequisite/Corequisite: MATH 270 and PHY 213 (both with a grade of “C” or better)
Transfers to: UC, CSU
This course is for students who intend to pursue a major in engineering. The course is the study of basic circuit analysis techniques including Ohm’s law, Kirchoff’s laws, mesh-current and node-voltage method, Thevenin and Norton’s equivalent circuits, transient and steady-state responses of passive circuits, and operational amplifiers. This course also includes sinusoidal steady-state analysis of AC circuits, AC power calculation, three-phase circuits, mutual inductance, frequency response, and resonance.
3 Units
72 Lecture hours

ENGR 235
Engineering Mechanics: Statics
Prerequisite: PHY 211 with a grade of “C” or better
Prerequisite/Corequisite: MATH 191 with a grade of “C” or better
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 method of virtual work and equilibrium.
3 Units
72 Lecture hours

ENGR 236
Engineering Mechanics: Dynamics
Prerequisite/Corequisite: MATH 191 with a grade of “C” or better
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 method of virtual work and equilibrium.
3 Units
72 Lecture hours

ENGT 105
Architectural and Technical Freehand Sketching
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: CSU
This course is designed to develop skill in freehand drawing as used by the design professionals in both architectural and technical applications. Using pen, pencil, marker, basic principles of proportion, composition and freehand techniques, students will prepare technical sketches to industry standards, in isometric, oblique, perspective and orthographic. Design considerations will also be introduced for various projects involving preliminary design sketches. This course is open to all students who wish to develop freehand drawing skills. It is required for all students working towards a degree or certificate in the Architecture and Engineering Design Drafting program.
2 Units
27 Lecture hours
27 Lab hours

ENGT 101
Introduction to Technical Drawing & Graphics
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: CSU
This is a basic course in technical drawing and graphics for students with no previous drafting skills or training. The course is designed for students who wish to pursue training in fields and careers related to architecture, civil and engineering design drafting. Practical application will be provided with the tools, techniques, standards, and practices used in the industries that need technical drawings and graphics.
3 Units
36 Lecture hours
54 Lab hours

ENGT 122
Engineering Design Graphics
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: UC, CSU
This course is an introduction to graphics as used in engineering design and the systematic use of
graphical solutions and descriptive geometry to solve three-dimensional engineering problems involving space, points, planes and lines.

Technical drawing using I.S.O. and A.N.S.I. standards, including geometric dimensioning and tolerancing, will be stressed with a conceptual design project and 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.

4 Units
54 Lecture hours
54 Lab hours

ENGT 131
Engineering and Manufacturing
Applications of Technical Drawing
Prerequisite: ENGT 122
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 150 or CADD experience
Transfers to: CSU

This intermediate course is the study of technical drawing as used in manufacturing applications of design and engineering technology. This course is 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 will also cover ANSI Y14.5, precision dimensioning, geometric tolerancing, manufacturing terminology and processes. Lab exercises and drawings will be used to reinforce lecture and demonstration concepts.

4 Units
54 Lecture hours
54 Lab hours

ENGT 138
Engineering Careers & Applications
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

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.

2 Units
27 Lecture hours
27 Lab hours

ENGT 150
AutoCAD for Basic CADD Applications
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; 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 AutoCAD software will be provided. Students will produce 2D orthographic, isometric, and basic 3D model solutions of mechanical and architectural applications.

4 Units
54 Lecture hours
54 Lab hours

ENGT 170
MicroStation for Basic CADD Applications
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; 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.

4 Units
54 Lecture hours
54 Lab hours

ENGT 200
Intermediate AutoCAD for Design and Production
Prerequisite: ENGT 150 with a grade of "C" or better
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 101 or two years of high school drafting
Transfers to: CSU

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 viewpoint scales. Emphasis will be placed on working with multiple drawing files using external files to create mechanical, architectural and civil projects.

3 Units
36 Lecture hours
54 Lab hours

ENGT 231
Technical Product Design and Presentation
Prerequisite: ENGT 122; ENGT 150
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: CSU

This intermediate course is the study of technical presentation drawing, product proposal and design including electro-mechanical packaging, orthographic and axonometric illustration for presentation and assembly pictorial views. Using computer aided design, manual drafting, and graphic techniques, students will apply previously learned skills to develop graphic illustrations of mechanical applications for use in catalogs, manuals and engineering support presentation documents. This course benefits all students in areas of study related to Engineering, Drafting, Design and Computer Graphics.

4 Units
54 Lecture hours
54 Lab hours

ENGT 250
Parametric Modeling 3D Applications for Mechanical Design
Prerequisite: ENGT 122 and ENGT 150
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

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. This course benefits all students in areas of study related to Engineering, Drafting, Design and Computer Graphics, emphasizing CADD generated three-dimensional graphic solutions and descriptive geometry to solve three dimensional engineering problems involving space, points, planes and lines.
ENGT 265
Pressure Piping Design
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 150 or ENGT 170 or industry experience in CADD applications
Transfers to: CSU
This course is for those students with CADD experience who are interested in the career field of pressure piping design engineering. This course presents the preparation of engineering detail drawings of piping systems for commercial, utilities and industrial plants. Included is information and work dealing with the location, installation, operation, and maintenance of pumps, steam turbines, compressors, tanks, heaters, coolers, cooling towers, condenser, reactors, boilers, chillers, heat exchangers and special equipment.
3 Units
36 Lecture hours
54 Lab hours

ENGT 266
Pressure Piping Applications
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 150 or ENGT 170 or industry experience in CADD applications; ENGT 265
Transfers to: CSU
This course is for all students interested in the career field of pressure piping design engineering. This course presents the advanced preparation of engineering detail drawings of piping systems for commercial, utilities and industrial plants. Included is advanced information and layout work dealing with the location, installation, operation of pumps, steam turbines, compressors, vertical vessels, horizontal vessels, tanks, heaters, coolers, cooling towers, condenser, reactors, boilers, chillers, heat exchangers and special equipment.
3 Units
36 Lecture hours
54 Lab hours

ENGT 270
Solid Works for 3D Modeling and Prototype Applications
Prerequisite: ENGT 122; ENGT 150 or ENGT 170
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
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.
4 Units
54 Lecture hours
54 Lab hours

ENGT 280
Advanced MicroStation for CADD & BIM Applications (Same as ARCH 280)
Prerequisite: ENGT 170 with a grade of "C" or better, or verifiable work experience and proficiency in MicroStation XM or V8
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 101 or two years of high school drafting
Transfers to: CSU
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.
4 Units
54 Lecture hours
54 Lab hours

ENGL 030
Introductory Composition for Developing Writers
Corequisite: ENGL 030W
Advisory: ENGL 030
This course assists students in developing thinking, language, and writing skills through structured assignments that increase in complexity throughout the semester. This is the first or beginning course in composition; it prepares students for success in either ENGL 035 or ENGL 101. Students must concurrently enroll in the one-unit Writing Workshop, ENGL 030W. This is a non-degree applicable course and is offered on a pass/no pass basis.
3 Units
54 Lecture hours

ENGL 030W
Writing Workshop
Corequisite: ENGL 030
Advisory: ENGL 030
This is a lab course designed to assist students in developing and improving their writing and language skills through individual conferences with composition instructors. Students will complete and revise assignments that complement the goals and objectives of ENGL 030. All ENGL 030 students must enroll in this course. This course may be repeated one time for credit. This is a non-degree applicable course offered on a pass/no pass basis.
0.5 Units
27 Lab hours
ENGL 035
Intermediate Composition for Developing Writers
Prerequisite: ENGL 030 or ENLA 034 with a grade of “Pass” or appropriate assessment
Corequisite: ENGL 035W

This is a composition course which trains students in the clear and logical communication of ideas and information. Students will learn to relate ideas and information in standard written English that a literate audience can easily understand. To accomplish this, students will learn methods of prewriting, construct and revise a series of original essays, discuss readings, and participate in collaborative activities which increase their ability to articulate ideas. This is a non-degree credit course and is offered on a pass/no pass basis. Each week, three additional hours will be required in an accompanying 35W Writing Workshop offered on a pass/no pass basis. Each week, three additional hours will be required in an accompanying 35W Writing Workshop offered on a pass/no pass basis. Each week, three additional hours will be required in an accompanying 35W Writing Workshop offered on a pass/no pass basis. Each week, three additional hours will be required in an accompanying 35W Writing Workshop offered on a pass/no pass basis.

ENGL 035A
Intermediate Composition for Developing Writers
Prerequisite: ENGL 030 or ENLA 034 with a grade of “Pass” or appropriate assessment
Corequisite: ENGL 035W

This is a composition course which trains students in the clear and logical communication of ideas and information. Students will learn to relate ideas and information in standard written English that a literate audience can easily understand. To accomplish this, students will learn methods of prewriting, construct and revise a series of original essays, discuss readings, and participate in collaborative activities which increase their ability to articulate ideas. This is a non-degree credit course and is offered on a pass/no pass basis. Each week, three additional hours will be required in an accompanying 35W Writing Workshop offered on a pass/no pass basis.

ENGL 035B
Intermediate Composition for Developing Writers
Prerequisite: ENGL 030 or ENLA 034 with a grade of “Pass” or appropriate assessment
Corequisite: ENGL 035W

This is a composition course which trains students in the clear and logical communication of ideas and information. Students will learn to relate ideas and information in standard written English that a literate audience can easily understand. To accomplish this, students will learn methods of prewriting, construct and revise a series of original essays, discuss readings, and participate in collaborative activities which increase their ability to articulate ideas. This is a non-degree credit course and is offered on a pass/no pass basis.
This is a composition course that enables students to generate logical, coherent essays and reports necessary to academic and professional success. Students will become proficient in research techniques, learn critical reading and thinking skills through expository and persuasive reading selections, and apply these skills to creating original essays and a final research paper. The lab component of this course is designed to assist students in improving and refining their writing and language skills. Students will complete lab activities that 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. This course is designed for students who wish to fulfill the General Education requirement for Written Communication.

3 Units
54 Lecture hours

ENGL 125
Grammar and Usage
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

ENGL 126
Languages of the World
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

ENGL 127
Language Structure and Language Use: Introduction to Linguistics
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course explores the nature and structure of language, including phonology, morphology, syntax, semantics and discourse, language acquisition and language development, and language use. This course is useful for students planning to enter elementary or secondary teaching and for those majoring in foreign language, English, communications, and anthropology.

3 Units
54 Lecture hours

ENGL 127H
Language Structure & Language Use: Introduction to Linguistics Honors
Prerequisite: ENGL 101 with a grade of "C" or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course explores the nature and structure of language, including phonology, morphology, syntax, semantics and discourse, language acquisition and language development, and language use. This course is useful for students planning to enter elementary or secondary teaching and for those majoring in foreign language, English, communications, and anthropology. This course is designed for students eligible for the Honors Program.

3 Units
54 Lecture hours

ENGL 131 (C-ID ENGL 200)
Creative Writing
Prerequisite: ENGL 101
Transfers to: UC, CSU
This is a course of expression for students who are interested in various forms of writing. It offers students a workshop setting in which to develop their writing skills in various genres, such as fiction, poetry, and playwriting. Students are 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 of the work of their peers.

3 Units
54 Lecture hours

ENGL 201 (C-ID ENGL 105)
Advanced Composition and Critical Thinking

Prerequisite: ENGL 101 with a grade of "C" or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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. This Honors section is open to all students who have completed ENGL 101 with a grade of C or better. Students will be expected to analyze issues in more depth and write on them at greater length than they would in a non-honors section.

3.5 Units
54 Lecture hours
27 Lab hours

ENGL 299
Directed Study: English

Transfers to: UC, 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 3.1 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.

1 to 3 Units
54 to 216 Lab hours

ENGLISH AS A NEW LANGUAGE
Division of Communications & Languages

ENLA 011
Basic Vocabulary

Advisory: ENLA 014 or appropriate assessment

This course is designed to help non-native speakers of English learn meanings, forms, uses, and pronunciations of 200-250 English words not presently in their vocabulary. Special emphasis is given to examining words in context, parts of speech, and inflections. This course is offered on a pass/no pass basis and is not applicable to the degree. Students are expected to complete an additional 8 hours TBA (To Be Arranged) in the Language Lab.

3 Units
54 Lecture hours
8 Lab hours

ENLA 012
Beginning Speaking and Listening

This course is for English language learners who wish to improve their conversational skills in English. Areas of emphasis include dictation, English phrasing patterns, various speaking situations, listening practice, and self-correction. This course is offered on a pass/no pass basis and is not applicable to the degree. Students are expected to complete an additional 8 hours TBA (To Be Arranged) in the Language Lab.

3 Units
54 Lecture hours
8 Lab hours

ENLA 013
Basic Grammar

Advisory: NESL 018 or appropriate assessment

This is an introductory grammar course for non-native speakers of English. Through reading, writing, listening, and speaking activities, students learn basic English grammar while focusing on verb structures. This course is offered on a pass/no pass basis and is not applicable to the degree. Students are expected to complete an additional 8 hours TBA (To Be Arranged) in the Language Lab.

3 Units
54 Lecture hours
8 Lab hours

ENLA 014
Beginning Composition

Prerequisite: Appropriate placement through the Rio Hondo Assessment Process

This course is designed to help limited English-speaking students communicate better in English. The course focuses on the development of written skills. Topics specifically emphasized are idiomatic expressions, vocabulary, reading and writing. These are taught at an entry level. This course is offered on a pass/no pass basis and is not applicable to the degree. Students are expected to complete an additional 8 hours TBA (To Be Arranged) in the Language Lab.

3.5 Units
54 Lecture hours
27 Lab hours
ENLA 022
Intermediate Speaking and Listening

Advisory: ENLA 012 or appropriate assessment
This course is for ENLA students who wish to improve their English speaking and listening skills at an intermediate level. Areas of emphasis include pronunciation, listening, oral communication, note taking and organizational skills. This course is offered on a pass/no pass basis and is not applicable to the degree. Students are expected to complete an additional 8 hours TBA (To Be Arranged) in the Language Lab. Students initially enrolled in the course will be assessed and only those passing the assessment will be allowed to remain.

3 Units
54 Lecture hours
8 Lab hours

ENLA 023
Intermediate Grammar

Advisory: ENLA 013 or appropriate assessment; ENLA 024 or appropriate assessment
This course presents a multi-skills approach to English grammar and sentence structure for second language students. Through reading, writing, listening, and related activities such as dictation, close exercises, and sentence analysis, students practice the elements of correct English while focusing on verbs and verb forms. This course is offered on a pass/no pass basis and is not applicable to the degree. Students are expected to complete an additional 8 hours TBA (To Be Arranged) in the Language Lab. Students initially enrolled in the course will be assessed and only those passing the assessment will be allowed to remain.

3 Units
54 Lecture hours
8 Lab hours

ENLA 024
Intermediate Composition

Prerequisite: ENLA 014 or appropriate assessment
This is an intermediate composition class for non-native speakers of English focusing on the fundamentals of academic writing in English. Basic sentence structures, paragraph development, composition forms, English grammar and word usage are studied in various rhetorical modes. This course is offered on a pass/no pass basis and is not applicable to the degree.

3.5 Units
54 Lecture hours
27 Lab hours

ENLA 032
Advanced Speaking and Listening: Pronunciation and Accent Reduction

Advisory: READ 022 or appropriate assessment; ENLA 022 or appropriate assessment
ENLA 032 is a speaking, listening and pronunciation course intended for students who need further practice in spoken English and/or have difficulty understanding native speakers of English in academic and other situations. Its purpose is improved the pronunciation, articulation, speed and comprehension of non-native speakers of English. The course focuses on sounds in isolation, the blending of sounds in phrasal elements and the production of sentences incorporating correct intonation, accent, speed and rhythm. This course is offered on a pass/no pass basis and is not applicable to the degree.

3 Units
54 Lecture hours
8 Lab hours

ENLA 034
Intermediate-Advanced Composition

Prerequisite: ENLA 024 or appropriate assessment
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.

3.5 Units
54 Lecture hours
27 Lab hours

ENLA 100
Advanced Composition

Prerequisite: ENLA 034 or appropriate assessment
Transfers to: UC, CSU
ENLA 100 is the highest-level course of the ENLA writing sequence and an ENLA student’s gateway in to ENGL 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.

3.5 Units
54 Lecture hours
27 Lab hours
ET 121 Photovoltaic Systems Design and Installation (Same as AET 121)  
(Formerly ET 072)  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment  
Transfers to: CSU  
This is an introductory course that will examine and implement the design and installation of solar photovoltaic power systems, which will include the installation of a working solar photovoltaic power system. Students will 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. This course is designed to prepare the student for the North American Board of Certified Energy Practitioners (NABCEP) Entry Level Exam. This course is intended for students that are contemplating a career in the solar photovoltaic energy industry.  
3 Units  
45 Lecture hours  
27 Lab hours  
ET 122 Advanced Photovoltaic Systems Design and Installation (Same as AET 122)  
(Formerly ET 074)  
Prerequisite: AET/ET 121  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment  
Transfers to: CSU  
This is the second course in the photovoltaic series that will further examine and implement the design and installation of solar photovoltaic power systems. Students will learn how to interpret the National Electrical Code (NEC) specifics concerning photovoltaic installations. The topics include code compliant wiring of modules, inverters, charge controllers, grounding techniques and related topics. Additional topics include the design and installation of large commercial photovoltaic systems. This course is intended for students that are interested in a career in the solar photovoltaic energy industry.  
3 Units  
45 Lecture hours  
27 Lab hours  
ET 123 Wind Energy Systems Design and Installation (Same as AET 123)  
(Formerly ET 076)  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment  
Transfers to: CSU  
This is an introductory course that will examine and implement the design and installation of wind power systems which will include the installation of a working wind power generation system. Students will 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. Students will learn how to design and install wind power generation system and obtain skills for employment. This course is intended for students that are contemplating a career in the wind turbine power generation industry.  
3 Units  
45 Lecture hours  
27 Lab hours  
ET 124 Advanced Wind Energy Systems Design and Installation (Same as AET 124)  
(Formerly ET 078)  
Prerequisite: ET 123  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment  
Transfers to: CSU  
This is the second course in the wind energy series that will further examine and implement the design and installation of wind power systems. Students will learn how to interpret the National Electrical Code (NEC) specifics concerning wind power installations. The 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, hydraulics fundamentals, basic aerodynamics, and installation techniques for large wind power generation systems. This course is intended for students that are contemplating a career in the wind turbine power generation industry.  
3 Units  
45 Lecture hours  
27 Lab hours  
ET 130 Health Effects of Environmental Hazards  
Materials  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; BIOL 120; BIOL 120L; CHEM 110  
Transfers to: CSU  
This course is designed to educate individuals working in or seeking employment in areas that include health and safety responsibilities. It provides an overview of how to identify and evaluate the hazards of chemical, physical and biological agents that can be encountered in industrial operations, waste disposal and remediation sites.  
3 Units  
45 Lecture hours  
ET 150 Hazardous Waste Management Applications  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment  
Transfers to: CSU  
This course is designed to provide individuals, who are working in or seeking employment in the environmental field with an overview of hazardous waste management regulations. The course explains the hazardous waste regulatory framework and develops 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 “hands-on” applications of the regulations. These applications include: preparing a hazardous waste manifest, labeling and storing containers, sampling and analysis, and preparing a Phase I environmental audit.  
4 Units  
54 Lecture hours  
54 Lab hours  
ET 160 Hazardous Waste Site Remediation Systems  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment  
Transfers to: CSU  
This course provides an overview of remediation systems that are employed in cleaning up hazardous waste sites. The remediation systems that will be studied include: groundwater remediation systems, soil vapor extraction, chemical extraction/soil washing, solidification/stabilization, bioremediation, thermal processes, and chemical destruction. Specific details on the compounds removed, the fundamentals and specific applications of each method will be examined. Innovative remediation technologies and trends in remediation systems will be studied. A case study, which will highlight the reme-
etion processes that are being used at a selected remediation site, will be examined.

3 Units
54 Lecture hours

ET 170
Groundwater Hydrology and Sampling
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: CSU
This course is designed to train individuals, who are working in or who seek employment in the environmental field, with an overview of the basic physical and chemical nature of groundwater aquifer systems, an overview of the techniques of sampling protocols for obtaining groundwater samples based on USEPA approved sampling protocols, and an introduction to groundwater pollution, remediation, and protection. Emphasis is placed on developing practical working knowledge of groundwater resources, groundwater protection, and groundwater remediation.

3 Units
54 Lecture hours

ET 181
Home Energy Management and Auditing (Same as AET 181)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This course is designed to provide individuals, who are working in or seeking employment in the green energy field, with an overview of home energy management and auditing. Specifically, this course will assist students in their preparation of a comprehensive home 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.

3 Units
54 Lecture hours

ET 200
Hazardous Materials Management Applications
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: CSU
This course is designed to provide individuals, who are working in or who seek 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, OSHA Hazard Communications, SARA Title III Community Right-to-Know, Underground Tank, Asbestos, Proposition 65, and Air Toxics Regulations.

4 Units
54 Lecture hours

ET 210
Fundamentals of Safety and Health I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment, ET 230, or work in General Industry, Construction, or in the Safety and Health Field
Transfers to: CSU
This course is designed to introduce the student to the field of Occupational Safety and Health 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 individuals that are pursuing a degree in Environmental Technology, Safety & Health or for working supervisors, professionals or business owners that are responsible for worker safety or placement of workers compensation/general liability insurance.

3 Units
54 Lecture hours

ET 220
Industrial Safety and Emergency Response
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This course is designed to provide individuals, who are working in or who seek 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 PPE, site control and evaluation, handling drums and containers, field sampling and air monitoring, proper use of instruments, confined spaces, emergency response including field exercises in the use of APR and SCBA. This course satisfies the requirements for 40-hour HAZ-

4 Units
54 Lecture hours
This course is designed to introduce the student 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 will focus on the Elements of Safety and Health Program Development, Behavior Based Safety, Workplace Violence, Terrorism Preparedness, Hazardous Materials and Waste Management, Application of occupational safety and health design/compliance, regulations and development of the Safety and health and Loss Prevention Program (Policy through QA/QC). This course is for individuals that are pursuing a degree in Environmental Technology, a Safety & Health Certificate and the working professional or business owner responsible for worker safety or Risk Management.

3 Units
54 Lecture hours

ET 260
Environmental Sampling and Analysis
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; BIOL 120; BIOL 120L; CHEM 110
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 the U.S. EPA approved sampling protocols. In the lecture, emphasis is placed on the aspects of the procurement of the samples through the EPA approved standard operating procedures and practices. In the laboratory, the student will gain practical knowledge and skills for the appropriate collection and handling of environmental samples.

4 Units
54 Lecture hours

ET 270
Wastewater Treatment Plant Operations I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This is the initial course of a series of water treatment courses designed to train individuals, who are working in or who seek employment in the waste water treatment field, in the practical aspects of operating and maintaining wastewater treatment plants, emphasizing the use of safe practices and procedures. Information presented includes 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 will 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 will also learn to analyze and solve operational problems and to perform mathematical calculations relating to wastewater treatment process control.

3 Units
54 Lecture hours

ET 271
Wastewater Treatment Plant Operations II
Prerequisite: ET 270
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This is the second course of a series of water treatment courses designed to train individuals, who are working in or who seek employment in the waste water treatment field, with the practical aspects of operating and maintaining wastewater treatment plants, emphasizing the use of safe practices and procedures. Information presented includes: 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 will also learn to analyze and solve operational problems and to perform mathematical calculations relating to wastewater treatment process control.

3 Units
54 Lecture hours

ET 272
Advanced Wastewater Treatment
Prerequisite: ET 271
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This is the third course in a series of water treatment courses designed to train individuals who are working in or who seek employment in the waste water treatment field in the practical aspects of operating and maintaining wastewater treatment plants and emphasizes the use of safe practices and procedures. Topics presented 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. Students will learn to operate and maintain treatment plant instrumentation equipment and systems. Additionally, students will also learn to analyze and solve operational problems and to perform mathematical calculations relating to wastewater treatment process control. This course focuses on actual operating procedures and teaches students to analyze and solve operational problems.

3 Units
54 Lecture hours

ET 280
Green Building Design Principles (Same as AET 280)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This course is designed to provide individuals, who are working in or seeking employment in the green building field, with an overview of the green building industry and its components. Specifically, this course will assist students in their preparation 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 & Atmosphere, Materials & Resources, Indoor Environmental Quality, and Innovation & Design Process. Each of these categories will be studied, with a focus on the significance of each particular credit.

3 Units
54 Lecture hours

ET 290
Cooperative Work Experience/Internship for Environmental Technology
Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 employ-
ment. This course is intended for students whose job is related to the field of environmental 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
1 to 4 Units
3 Lecture hours
60 to 300 hours

**ET 299 Directed Study: Environmental Technology**

Transfers to: LIC, 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 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:

1 to 3 Units
54 to 216 Lab hours

**FIRE ACADEMY**

**Division of Public Safety**

**FAC 043 Advanced Fire Course**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

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.

0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

**FAC 118 Firefighter I, Basic Fire Academy**

Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; FTEC 101; FTEC 102; FTEC 103; FTEC 104; FTEC 105; FTEC 106; EMT 093

Advisory: BIOL 125

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 awareness, building construction and assemblies, basic firefighting tactics and strategy, fire prevention, hazardous materials, emergency care, wild land firefighting, Rapid Intervention, Rescue Systems and physical fitness. This course meets the State Board of Fire Services requirements for designation as a “California Firefighter I Accredited Academy” (ARA or Accredited Regional Academy by the California State Fire Marshal). Students who complete this course also receive California certification as an Emergency Medical Technician, in Vehicle Extrication, Fire Control I & II, Hazardous Materials First Responder Operational, Confined Space Awareness, Rescue Systems I, S-110, S-130, S-190, Trench Rescue, Rapid Intervention Crew Tactics and ICS –200.

**FINANCE**

**Division of Business**

**FIN 101 Introduction to Financial Planning**

Advisory: READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

Transfers to: CSU

This course provides an overview of the fundamentals of financial planning. Course topics include the financial planning process, managing assets, managing credit, managing investments in stocks, bonds, mutual funds, insurance, and real estate, and retirement and estate planning. This course is designed for those interested in learning about personal financial planning and/or entering the field of financial planning.

3 Units
54 Lecture hours

**FABRICATION**

**Division of Career & Technical Education**

**FABR 040 Introduction to Fabrication Processes**

Advisory: READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment; TCED 090

This is a beginning level course designed to introduce students to various techniques, processes and technologies used in the Fabrication industry. This course will develop skills necessary for translating dimensional information from a shop drawing or blueprint to metallic materials used for production of finished parts and assemblies. Topics covered in this class will include basic blueprint reading, measurement and measuring tools, layout, metal cutting, drilling and tapping, and metal forming. Emphasis will be placed on shop safety and safe and proper use of equipment, tools and materials.

2 Units
18 Lecture hours
54 Lab hours

**FABR 045 Intermediate Fabrication Processes**

Advisory: READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment; FABR 040

This is a beginning level course designed to broaden the students’ skills and knowledge of metal fabrication techniques. This course will introduce students to basic hand tools and power tools commonly used in the metal fabrication industry. Topics covered in this class will include structural fabrication, tube bending, stair layout and construction, and fabrication of components from sheet metal. Emphasis will be placed on shop safety and on developing proper working procedures.

2 Units
18 Lecture hours
54 Lab hours

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This course requires completion of a medical physical examination and includes arduous physical activity.

22 Units
136 Lecture hours
783 Lab hours

FAC 120
Firefighter I, Basic Fire Academy with EMT
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; FTEC 101; FTEC 102; FTEC 103; FTEC 104; FTEC 105; FTEC 106
Advisory: BIOL 125
Transfers to: CSI
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 awareness, building construction and assemblies, basic firefighting tactics and strategy, fire prevention, hazardous materials, emergency care, wild land firefighting, Rapid Intervention, Rescue Systems and physical fitness. This course meets the State Board of Fire Services requirements for designation as a “California Firefighter I Accredited Academy” (ARA or Accredited Regional Academy by the California State Fire Marshal). Students who complete this course also receive California certification as an Emergency Medical Technician, in Vehicle Extrication, Fire Control I & II, Hazardous Materials First Responder Operational, Confine Space Awareness, Rescue Systems I, S-110, S-130, S-190, Trench Rescue, Rapid Intervention Crew Tactics, Firefighter Safety and Survival and ICS -200. This course requires completion of a medical physical examination and includes arduous physical activity.
22 Units
136 Lecture hours
783 Lab hours

FAC 4310
Management Orientation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed for fire department personnel and other interested students who seek information related to fire service management. The organizational structure of a fire department, fire officer responsibilities and establishing command at the scene of an emergency will be discussed.
0.07 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4315
Arson Scene Investigation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is for fire department personnel and other interested students as it provides an introduction to the practices and procedures of fire scene investigation. The scientific method of scene investigation, providing a systematic framework for investigations, is stressed. Determining the point of origin, establishing the cause and recognition, and preservation of evidence will be included. Current legally acceptable methods in compliance with the standards of NFPA 921 “Guide to Fire Explosion Investigations” are stressed throughout the course.
0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4326
Paramedic Support Operations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

Hazardous Material Identification
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4327
Fire Fighting Operations, Structures
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 cohesion.
0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4328
Fire Fighting Operations, Mobile Units
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4329
Fire Fighting Operations, Hazardous Materials
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
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.
0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours
### FAC 4330
**Driving Techniques and Certification**  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
This course is designed to train students to drive heavy equipment including fire engines and fire trucks under emergency and non-emergency conditions. This course will include classroom discussion, driving demonstrations, and driving practice. This course meets the standards of the State of California and NFPA 1002, for driver certification.  
0.167 to 0.75 Units  
8 to 40 Lecture hours

### FAC 4331
**Pumping Techniques and Certification**  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
State Board of Fire Services accredited courses and applies to California Fire Service Training and Educational System certifications. Topics covered include Occupational Analysis, course outline, concepts of learning, levels of instruction, behavioral objectives, lesson plan development, psychology of learning and instructor evaluation. Student teaching demonstrations are required of all.  
2 Units  
40 Lecture hours

### FAC 4335
**Special Equipment Familiarization**  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
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. This course meets the standards of the State of California and NFPA 1002, for operator certification.  
0.167 to 0.75 Units  
8 to 40 Lecture hours

### FAC 4345
**Fire Instructor 1B**  
Prerequisite: FAC 4344  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
This course is designed to prepare Fire Service or other interested students to become a California Certified Fire Instructor. 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 include Occupational Analysis, course outline, concepts of learning, levels of instruction, behavioral objectives, lesson plan development, psychology of learning and instructor evaluation. Student teaching demonstrations are required of all.  
2 Units  
40 Lecture hours

### FAC 4346
**Fire Prevention 1A**  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
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 include Occupational Analysis, course outline, concepts of learning, levels of instruction, behavioral objectives, lesson plan development, psychology of learning and instructor evaluation. Student teaching demonstrations are required of all.  
2 Units  
40 Lecture hours

### FAC 4347
**Fire Prevention 1B**  
Prerequisite: FAC 4346  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
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.  
2 Units  
40 Lecture hours

### FAC 4348
**Fire Investigation I**  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
This course is designed to prepare Fire Service or other interested students to become a California Certified Fire Investigator. 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 participants with an introduction to the basics of fire scene investigation. The focus of the course is to provide information on fire scene indicators and to determine the fire’s origin.  
2 Units  
40 Lecture hours

### FAC 4349
**Fire Command 1A**  
Prerequisite: FAC 4349  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
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, fire ground resources, operations and management.  
2 Units  
40 Lecture hours

### FAC 4350
**Fire Command 1B**  
Prerequisite: FAC 4349  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
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.

2 Units

40 Lecture hours

FAC 4351
Fire Management I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This Fire Management course is designed to prepare Fire Service or other interested students to become a California Certified Fire Prevention Officer with emphasis on supervisory skills. 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 prepares or enhances the first line supervisor’s ability to supervise subordinates. It introduces key management concepts and practices utilized, and includes discussions about decision-making, time management, leadership styles, personnel evaluations and counseling guidelines.

2 Units

40 Lecture hours

FAC 4353
Automatic External Defibrillator
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course provides training in the use of an automated external defibrillator. This course meets the requirements for certification in AED (automated external defibrillation) usage through the American Heart Association and is for the lay rescuer and first responder. This course is designed for the individual working in the public health and safety field. Offered on a pass/no pass basis.

0.2 Units

6 Lab hours

FAC 4361
Fire Command 1C I-Zone Fire Fighting for Company Officers
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This is a State Board of Fire Services accredited course in I-Zone firefighting 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”.

2 Units

36 Lecture hours

FAC 4362
Incident Command System (ICS) 200
Advisory: READ 023 or appropriate assessment
This course is designed for students who desire a basic introduction to the Incident Command System (ICS) for fire ground operations. This course provides the foundation for students to actively take part as a member of team responding to a fire incident. Instruction will be provided in the principles and features of ICS, including an organizational overview, incident facilities, incident resources, and common responsibilities.

0.2 Units

12 Lecture hours

FIRE TECHNOLOGY

Division of Public Safety

FTEC 044
Physical Fitness and Ability for the Firefighter
Prerequisite: Student must be able to lift 75lbs., drag a 150 pound “drag dummy”, and use a sledge hammer in completion of a physical abilities test.
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to give in-service firefighters and interested students information about conditioning and fire department physical ability test designs and will include manipulative drills in order to be successful in passing California PAT’s (Physical Abilities Tests). This course will provide information on the most recently developed tests in Southern California including the CPAT (Candidate Physical Abilities Test) and the Biddle (Biddle and Associate Validated Test). Students will learn about firefighter wellness programs, review basic nutrition and current NFPA (National Fire Protection Association) standards pertaining to firefighter health and safety. Students must be able to perform basic firefighter activities including climbing, using sledge hammers, dragging 150lb dummies and wearing a self-contained breathing apparatus.

3 Units

36 Lecture hours

54 Lab hours

FTEC 045
Firefighter Entrance Examination Techniques
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to prepare Fire Technology or other interested students to take a firefighter’s examination. Topics covered include a review of firefighter duties and the requirements of a firefighter, employment requirements in the fire service and the hiring process. Resumes, fire department written examinations, oral interviews, and other related aspects will be discussed.

3 Units

54 Lecture hours

FTEC 101
Fire Protection Organization
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides Fire Technology or other interested students with an overview of fire protection issues. Included will be an introduction to the philosophy and history of fire protection and fire service. The organization and function of public and private fire protection services, the laws and regulations affecting fire service and the role of fire departments as part of local government will be explored. Basic fire chemistry, fire protection systems, firefighting strategies and possible career opportunities in fire related fields will also be addressed.

3 Units

54 Lecture hours

FTEC 102
Principles of Fire & Emergency Services Safety & Survival
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course introduces the 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.

3 Units

54 Lecture hours
FTEC 103
Fire Behavior and Combustion
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides Fire Technology for 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.
3 Units
54 Lecture hours

FTEC 104
Fire Prevention Technology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

FTEC 105
Building Construction for Fire Protection
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides the 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.
3 Units
54 Lecture hours

FTEC 106
Fire Protection Equipment and Systems
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

FTEC 107
Hazardous Materials I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

FTEC 108
Hazardous Materials II
Prerequisite: FTEC 107
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

FTEC 109
Fire Fighting Tactics and Strategy
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 a tactical plan. Basic current fire ground strategies will also be explored in this course.
3 Units
54 Lecture hours

FTEC 110
Rescue Practices
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides the 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.
3 Units
54 Lecture hours

FTEC 111
Fire Hydraulics
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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.
3 Units
54 Lecture hours

FTEC 112
Fire Apparatus and Equipment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

FTEC 114
Fire Investigation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides the Fire Technology or other interested students with an understanding of determin-
ing causes of fires (accidental, suspicious and incendiary). Topics covered include arson laws, field note taking, and incendiaryism. 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.

3 Units
54 Lecture hours

FTEC 117
Fire Service Management, Safety and Wellness
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

FTEC 299
Directed Study: Fire Technology
Transfers to: UC, 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 3.1 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.

1 to 3 Units
54 to 216 Lab hours

FRENCH
Division of Communications & Languages

FR 101
French I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course provides the student with an introduction to the French language and culture. The course stresses oral and written proficiency as well as reading comprehension. In addition to classroom discussion, students receive intensive individualized oral-aural practice in the language laboratory via interactive French websites, audio CDs, video programs, and CD ROMs. Various facets of French history, philosophy, and politics will also be analyzed via cross-cultural comparisons. This course is intended for those interested in learning to speak French as well as for those seeking a degree in the French language.

4 Units
72 Lecture hours
18 Lab hours

FR 102
French II
Prerequisite: FR 101
Transfers to: UC, CSU
This course is a continuation to the essentials of the French language. The course stresses oral and written proficiency as well as reading comprehension. In addition to classroom discussion, students receive intensive individualized oral-aural practice in the language laboratory via interactive websites, audio CDs, video programs, and CD ROMs. Various facets of French history, philosophy, and politics will also be analyzed via cross-cultural comparisons. 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.

4 Units
72 Lecture hours
18 Lab hours
FR 201
French III
Prerequisite: FR 102
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. In addition to classroom instruction, students receive intensive, individualized oral-aural practice in the language laboratory in which websites, video programs, audio CDs, and CD ROMs are used. 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.
4 Units
72 Lecture hours
18 Lab hours

FR 202
French IV
Prerequisite: FR 201
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 instruction, students receive intensive, individualized oral-aural practice in the language laboratory in which websites, video programs, audio CDs, and CD ROMs are used. 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.
4 Units
72 Lecture hours
18 Lab hours

GIS 120
Introduction to Geographic Information Systems and Spatial Analysis
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; CIT 101
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: GIS 120 or GIS 220)
This course will introduce fundamental concepts of geographic information and spatial analysis, using industry standard geospatial application tools including geographic information systems (GIS), global positioning systems (GPS), cartography, remote sensing. Students will learn how to use geospatial technologies to perform spatial analysis in various disciplines including but not limited to business, public safety, health, politics, engineering, environmental, and social, biological and geological sciences. Students should have a working knowledge of Windows to be successful in this course.
4 Units
54 Lecture hours
54 Lab hours

GIS 130
Applied Geographic Information Systems
Prerequisite: GIS 120 or introductory level experience in GIS and use of e-mail and Internet
Transfers to: CSU
This course provides students an expanded hands-on study in GIS using ArcView and practical learning in the field to enhance GIS entry-level employment skills. Working in the field with professionals from GIS and other disciplines, students will collect real data and information using Global Positioning Systems GPS, develop GIS data, explore solutions to real problems and produce supportive documentation in a variety of formats including constructing web pages and plotting maps.
3 Units
36 Lecture hours
54 Lab hours

GIS 220
GIS Applications
Prerequisite: GIS 120
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; CIT 101
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: GIS 120 or GIS 220)
GIS 220 is designed for students to apply tools learned in GIS120 and introduces geoprocessing methods and new data sets to perform suitability models such as where to locate a new school, or how to determine concentrations of sales, pollutants or crimes within a community. In addition, field work is performed using Global Positioning System (GPS) including development of data dictionary, collection and processing and import into GIS. Additional data import includes CAD and tables. Students are introduced to data delivery including layer and map packages and web mapping. Course may include field trips for student to visit industry meetings and attend off campus GPS exercise.
4 Units
54 Lecture hours
54 Lab hours

GIS 221
Cartography Design and Geographic Information Systems
Prerequisite: GIS 120
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
GIS plays an important role in almost any discipline and improves understanding of information through visual interpretation. This course is designed for students who want a better understanding and 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. Course may include field trips for student to visit industry meetings and attend off campus GPS exercise.

4 Units
54 Lecture hours
54 Lab hours

GIS 222
Planning and Facilities Management Using GIS
Prerequisite: GIS 120
Corequisite: ENGT 150
Transfers to: CSU
This course uses ArcView GIS as an analytical and information tool for engineers, planners and facility managers to aid in the planning process, facilities management, systems evaluation, maintenance and asset management of large-scale facilities and infrastructure. Included is site management of facilities, city and regional planning, infrastructure based on topological features, evaluation based on growth indicators, population and economic projections, and use of GIS to support contemporary environmental rules and regulations. The course will include production of professional quality maps using ArcView as well as utilizing customized software.

3 Units
54 Lecture hours
36 Lab hours

GIS 230
Geographic Information Systems (GIS) in Environmental Technology
Prerequisite: GIS 120
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
In the environmental field today there are few jobs that do not require a background in Geographical Information Systems (GIS) and Global Positioning Systems (GPS). GIS is today widely applied in planning used for land use and growth management, environmental assessment to disaster response. This course integrates training in GIS with field data collection methods using GPS & Remote Sensing to collect environmental data used interpretively by GIS. Students should have a working knowledge of Windows to be successful in this course. This course may be taken once for credit towards the certificate and repeated once for credit to enhance student skills and proficiency level. Possible day field trips are scheduled to visit local industries and for GPS field work.

3 Units
54 Lecture hours
54 Lab hours

GIS 280
Visual Basic and Database Management for GIS
Prerequisite: GIS 120
Corequisite: GIS 220
Transfers to: CSU
This course presents the fundamentals of computer programming and database management systems (DBMS) techniques as utilized in Visual Basic and Access for various GIS (Geographic Information Systems) environments. Advanced GIS programming and database management methodologies for spatial data analysis and development of GIS applications will also be covered. This course is designed for students in the GIS program and others who wish to upgrade their skills to build a solid understanding of Visual Basic and data management systems for GIS customization and application development.

4 Units
54 Lecture hours
54 Lab hours

GIS 281
Crime Mapping and Analysis
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; 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.

4 Units
54 Lecture hours
54 Lab hours

GEOG 101
Introduction to Physical Geography
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: UC, CSU
Introduction to Physical Geography is a general education course that 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 student interested in the physical processes that shape land masses.

3 Units
3 Lecture hours
60 to 300 hours

GEOG 101L
Introduction to Physical Geography Laboratory
Prerequisite/Corequisite: GEOG 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
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 will 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 GEOG 101.

1 Unit
54 Lab hours

GEOG 102
Introduction to Cultural Geography
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

World Regional Geography is a general education course that 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 field of elementary teaching, ecology, social science, or travel related vocations.

3 Units
54 Lecture hours

GEOG 103 (C-ID GEOG 125)
World Regional Geography
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

World Regional Geography 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. This course describes the cultural, economic and environmental aspects of each of these geographic realms. It provides a geographic perspective that will enhance global awareness and geographic literacy.

3 Units
54 Lecture hours

GEOG 299
Directed Study: Geography
Transfers to: UC, 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 3.1 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.

1 to 3 Units
54 to 216 Lab hours

GEOL 153
Earthquakes
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC, CSU

“Earthquakes” examines the origin, mechanics, distribution, and effects of tremors. Spectacular examples of historical earthquakes are reviewed, as are such topics as plate tectonics, earthquake prediction, structural risk, fault anatomy, paleoseismology, tsunamis, magnitude scales, earthquake location, and safety, as well as a survey of southern California’s major fault systems and damaging historical quakes. This course is designed as an elective credit for geology majors and interested students.

3 Units
54 Lecture hours

GEOL 150 (C-ID GEOL 100)
Physical Geology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC, CSU

Physical Geology, which fulfills the physical science general education requirement, is the study of the materials that our beautiful Earth is made out of, as well as the processes and systems operating within the planet and on its surface. Earthquakes, volcanoes, oil, beaches, tsunamis, rocks, rivers, glaciers, plate tectonics, minerals, continent and mountain building are among the many diverse topics that will be explored. The direct effect of geology on society and our history, as well as the impact humans are having on our earth system will also be examined.

3 Units
54 Lecture hours

GEOG 151
Physical Geology Laboratory
Prerequisite/Corequisite: GEOL 150
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC, CSU

Physical Geology Laboratory engages students with a “hands-on” review of the topics presented in GEOL 150 and an examination of their relevance to everyday life. Laboratory exercises will include (but are not limited to) earthquake hazards, earthquake risk and analysis, the physical properties and identification of minerals, igneous, metamorphic and sedimentary rocks, as well as topographic and geologic map reading. Glacial, coastal, dry land, groundwater, and fluvial, processes and landforms are scrutinized. Several geologic investigations of the hills and the river plain surrounding the campus will also be completed.

3 Units
54 Lecture hours

GEOL 257
Geology of California
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC, CSU

Geology of California looks at how our state was assembled, as well as its beautiful mountains, deserts, volcanoes, rivers, and other landforms. It examines the dynamic micro and mega processes that created these features as well as the varied rocks, minerals, structure and stratigraphy that underlie them. This course is designed as an elective credit for Geology majors and interested students.

3 Units
54 Lecture hours

GEOG 299
Directed Study: Geology
Transfers to: UC, CSU

This course 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.

1 to 3 Units
54 to 216 Lab hours

HEALTH SCIENCE
Division of Health Science & Nursing

HS 045
Math for the Health Care Professional
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
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.
1 Unit
18 Lecture hours

HS 050
Nurse Assistant Pre-Certification Training Course
Corequisite: HS 050L
Prerequisite: HS 050L
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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 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 Health requires that students must be concurrently enrolled in both HS 050 and HS 050L, and pass both courses together. They cannot be taken individually for credit.
4 Units
72 Lecture hours

HS 050L
Nurse Assistant Pre-Certification Training Course Lab
Corequisite: HS 050
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 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 Health requires that students must be concurrently enrolled in both HS 050 and HS 050L, and pass both courses together. They cannot be taken individually for credit.
2.5 Units
135 Lab hours

HS 051
Certified Nurse Assistant Acute Care Training Course
Prerequisite: HS 050, HS 050L, and California State CNA Certification
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 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 consists of 54 hours of supervised clinical practice in an acute care facility. This course includes communication, patient observation, reporting and recording training as well as reinforcement of Certified Nurse Assistant basic-care procedures. The California Department of Health 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.
1 Unit
54 Lab hours

HS 051L
Certified Nurse Assistant Acute Care Training Course Lab
Prerequisite: HS 050, HS 050L, and California State CNA Certification
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 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 consists of 54 hours of supervised clinical practice in an acute care facility. This course includes communication, patient observation, reporting and recording training as well as reinforcement of Certified Nurse Assistant basic-care procedures. The California Department of Health 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.
1 Unit
54 Lab hours

HS 052
Home Health Aide Training Course
Prerequisite: HS 050, HS 050L, and California State CNA Certification
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 27 hours of classroom instruction. 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 Home Health Aide training course consists of 27 hours classroom instruction. This course includes communication, patient observation, reporting and recording training as well as reinforcement of Certified Nurse Assistant basic-care procedures. The Department 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.
1.5 Units
27 Lecture hours
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.

HEAT & FROST

**Division of Career & Technical Education**

**HEFR 040**

Insulation Industry Orientation

(Formerly HEFR 001)

Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

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, job-site safety, insulation, pipe systems, OSHA, refinery safety, boom and scissor lift safety, and duct systems.

3 Units

40 Lecture hours

40 Lab hours

**HEFR 041**

Mechanical Piping Systems

(Formerly HEFR 002)

Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

This course is designed to meet the needs of State 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.

3 Units

40 Lecture hours

40 Lab hours

**HEFR 042**

Boiler Insulation

(Formerly HEFR 003)

Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

This course is designed to meet the needs of State Indentured Apprentices with the State of California who are interested in the Heat and Frost Insulators Industry. Topics include boilers, insulating techniques, stacks, breechings, h-rill lath insulation, finishing, ship-yard orientation, pen welding, safety, first-aid, confined space, and fittings.

3 Units

40 Lecture hours

40 Lab hours

**HEFR 043**

Construction Mathematics

(Formerly HEFR 004)

Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

This course is designed to meet the needs of State 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 will be reviewed and applied. Topics include whole numbers, fractions, decimals, basic geometry functions, curves and angles, drawings, estimating, energy appraising, insulation certifications, and measurements.

3 Units

40 Lecture hours

40 Lab hours

**HEFR 044**

Mechanical Piping Insulation

(Formerly HEFR 005)

Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

This course is designed to meet the needs of State 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.

3 Units
40 Lecture hours
40 Lab hours

HEFR 045 Foam and Firestopping Insulation
(Formerly HEFR 006)
Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of State 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.

3 Units
40 Lecture hours
40 Lab hours

HEFR 046 Blueprint Reading
(Formerly HEFR 007)
Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of State 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.

3 Units
40 Lecture hours
40 Lab hours

HEFR 047 Prefabricated Buildings
(Formerly HEFR 008)
Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
This course is designed to meet the needs of State Indentured Apprentices with the State of California who are interested in the Heat and Frost Insulators Industry. Topics include insulation, design of walls, prefabricated industry panels, prefabricated metal buildings, hazardous materials, and storage tank insulation.

3 Units
40 Lecture hours
40 Lab hours

HEF 040 Introduction to Heavy Equipment Technology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

4 Units
54 Lecture hours
54 Lab hours

HEF 041 Heavy Equipment Electrical Fundamentals
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

4 Units
54 Lecture hours
54 Lab hours

HEF 042 Heavy Equipment Heating, Ventilation and Air-Conditioning
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to familiarize the students 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. During the course, students will be given the opportunity to earn their certification license (EPA Rule 1411).

2 Units
27 Lecture hours
27 Lab hours

HEF 043 Heavy Equipment Hydraulic Fundamentals
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 040
This introductory course is designed to familiarize the students with a variety of heavy equipment hydraulic systems and their operational characteristics. Topics covered include hydraulics safety, hydraulic power principles, typical components, oil contamination and filtration, circuits, 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. Demonstrations using hydraulic trainer simulators will be used to illustrate hydraulic power principles and operation, including strategy-based diagnosis.

2 Units
27 Lecture hours
27 Lab hours

HEF 044 Heavy Equipment Diesel Engines
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 040
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
HET 045
Heavy Equipment Powertrains I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 040; HET 043
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.
4 Units
54 Lecture hours
54 Lab hours

HET 046
Heavy Equipment Fuel Systems and Emissions
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 041; HET 043; HET 044
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.
4 Units
54 Lecture hours
54 Lab hours

HET 047
Heavy Equipment Machine Specific Instruction
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 045
This course is designed to familiarize the students with a variety of material handling and construction equipment including forklifts, skid steer loaders, and front end loaders/backhoes. Topics covered include machine specific terminology, pre-operational and operational inspections, principles of balance and stability, capacity and load handling, refueling, hydraulic power, job site and pedestrian safety. Upon successful completion of this course and forklift performance testing, 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).
2 Units
27 Lecture hours
27 Lab hours

HET 048
Heavy Equipment Powertrains II
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 040; HET 041; HET 043
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.
4 Units
54 Lecture hours
54 Lab hours

HET 049
Heavy Equipment Hydraulic Diagnostics
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 040; HET 041; HET 043
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.
4 Units
54 Lecture hours
54 Lab hours

HET 050
Heavy Equipment Electrical Diagnosis
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; HET 041
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 trouble-shooting electrical problems using live equipment.
4 Units
54 Lecture hours
54 Lab hours

HET 290
Cooperative Work Experience/Internship for Heavy Equipment Technology
Transfer 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 heavy equipment maintenance 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
1 to 4 Units
3 Lecture hours
60 to 300 hours
HISTORY
Division of Behavioral & Social Sciences

HIST 101
History of World Civilization to the 17th Century
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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. This course is designed for the student who wishes to increase their understanding and appreciation of cultural, political, and intellectual diversity, as well as the process of intercultural interaction.
3 Units
54 Lecture hours

HIST 102
History of World Civilization, 1500 to the Present
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is a survey of the political, economic, and social development of world civilization from 1500 to modern times. Special emphasis is placed on the origins and development of the world economic system and the corresponding cultural, intellectual, and social currents that have characterized most of the world’s leading societies since 1500. This course is intended for the student who wants to increase their understanding of and appreciation for both the diversity and the unity of the modern world.
3 Units
54 Lecture hours

HIST 122
History of Mexico
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 given to Mexico’s relations with the United States and its place and role in the world community. This course is designed for students interested in understanding Mexico as a nation and is also recommended for all history and most social science majors.
3 Units
54 Lecture hours

HIST 131
History of the North American Indian
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
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 government Indian policies of removal, pacification, annihilation and assimilation, and considers present issues facing Native Americans today. This course is intended for students who wish to understand the role of Native Americans in the historical development of North America.
3 Units
54 Lecture hours

HIST 143
History of the United States to 1877
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
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 with an emphasis on the independence movement, Revolutionary War, the new Republic, westward expansion and the Civil War. This course is designed for students interested in the foundational history of the United States. It is recommended for all history majors and fulfills the CSU/UC American Institutions requirement for the Associate Degree.
3 Units
54 Lecture hours

HIST 143H
History of the United States to 1877 Honors
Prerequisite: ENGL 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit: *), CSU
("Students will receive credit from UC 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 the socio-political and economic impact of 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, the new world order, Clinton, and the Bush Administration to the present. This course fulfills the American Institutions requirement for the Associate Degree. It is also recommended for all History majors.
3 Units
54 Lecture hours

HIST 144
History of the United States Since 1865
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit: *), CSU
("Students will receive credit from UC 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 the socio-political and economic impact of Reconstruction on modern American society, 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, the new world order, Clinton, and the Bush Administration to the present. This course fulfills the American Institutions requirement for the CSU and Associate Degree. It is also recommended for all History majors. This course is intended for those who meet Honors Program requirements.
3 Units
54 Lecture hours

HIST 144H
History of the United States Since 1865 Honors
Prerequisite: ENGL 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit: *), CSU
("Students will receive credit from UC 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 the socio-political and economic impact of Reconstruction on modern American society, 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, the new world order, Clinton, and the Bush Administration to the present. This course fulfills the American Institutions requirement for the CSU and Associate Degree. It is also recommended for all History majors.
3 Units
54 Lecture hours
HIST 158
History of Minorities: African Americans and American Indians
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is a survey of the role minorities have played in the historical development of the United States from the earliest times to the present, with an emphasis on the twentieth century. The course begins with a study of racism, followed by the history and cultural contributions of the American Indian and the African American. This course fulfills the American Institutions requirement for the Associate Degree. This course is intended for those who desire a better understanding of the history of minorities in the United States.
3 Units
54 Lecture hours

HIST 159
History of Minorities: Mexican Americans, Asian Americans and American Women
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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 those wishing to fulfill the American Institutions requirement for the Associate degree and CSU and those who desire a better understanding of the history of minorities in the United States.
3 Units
54 Lecture hours

HIST 159H
History of Minorities: Mexican Americans, Asian Americans and American Women Honors
Prerequisite: ENGL 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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 those wishing to fulfill the American Institutions requirement at Rio Hondo and those who desire a better understanding of the history of minorities in the United States. This course is intended for students eligible for the Honors Program.
3 Units
54 Lecture hours

HIST 167
History of California
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course provides an overview of California history from the first aboriginal inhabitants to modern times. Cultural, political, social and economic development will be addressed in the context of history. The development of contemporary institutions and the historical context of current issues will addressed. 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.
3 Units
54 Lecture hours

HIST 170
Women in American History
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is a survey of the role, 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 will be 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 the student who wants to learn more about women’s history in America and is recommended for all history majors.
3 Units
54 Lecture hours

HIST 299
Directed Study: History
Transfers to: UC, 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.
3 Units
54 Lecture hours
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.

3 Units
54 Lecture hours

**HUSR 122**
Introduction to Group Leadership and Process
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

**HUSR 124**
Introduction to Case Management and Documentation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

**HUSR 126**
Counseling the Family of the Addicted Person
Advisory: ENGL 035 OR ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

**HUSR 128**
Chemical Dependency and Co-Occurring Disorders
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students interested in furthering their understanding of the co-existence of substance abuse with other mental health disorders. The course will assist students to gain the needed knowledge and skills to interact with clients who have various mental health disorders that are complicated by co-occurring substance abuse problems. The course also covers the diagnostic, therapeutic, and recovery phases that will assist students’ seeking a Drug Studies Certificate or Associate of Science degree in Drug Studies. Other students interested in psychology, human services and the behavioral sciences will benefit greatly from the content of the course.

3 to 4 Units
18 Lecture hours
120 to 225 Lab hours

**HUSR 130**
Essential Counseling Skills
Advisory: ENGL 035 OR ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

**HUSR 199**
Fieldwork in Human Services
Prerequisite: PSY 101 or SOC 101 with a minimum grade of “C” or better, OR consent of instructor
Advisory: ENGL 035 OR ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course offers the student 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. A weekly class meeting provides the academic element to this experiential course offering and reinforces the application of concepts gained in the prerequisite course or courses. This course is designed to provide the student with an opportunity to develop skills that would facilitate gaining employment in the human services field.

3 to 4 Units
18 Lecture hours
120 to 225 Lab hours

**HUSR 230**
Drug Studies Seminar and Internship
Prerequisite/Corequisite: HUSR 122, HUSR 124, HUSR 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
It is recommended that this course be taken in the final semester of the Drug Studies Program and provides the student with work experience in a drug treatment facility. The student will apply the concepts and skills gained through their coursework as they serve as an intern in a setting where drug dependent individuals are served. The seminar will focus on ethics, the further development of counseling skills, and the use of community resources. Students must meet the requirements of the internship facility.

Student Unpaid Internship:
120 hours

Student Paid Internship:
150 hours.

3 Units
16 Lecture hours
120 to 150 Other hours
HUMANITIES
Division of Behavioral & Social Sciences

HUM 110
Survey of Humanities
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

HUM 111
Survey of Humanities
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

HUM 125
Introduction to Mexican Culture
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC 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 designed for students eligible for the Honors program.
3 Units
54 Lecture hours

HUM 125H
Introduction to Mexican Culture Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
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 students who wish to further their understanding of major cultural and historical developments around the world.
3 Units
54 Lecture hours

HUM 130
Contemporary Mexican-American Culture
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

HUM 140
Splendors of Asia
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: 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.
3 Units
54 Lecture hours

ITALIAN
Division of Communications & Languages

ITAL 101
Italian 101
Prerequisite: ITAL 101
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU
This course is an introduction to the essentials of the Italian language. Conversational, reading, and writing skills will be stressed. In addition to classroom instruction, students receive intensive individualized oral-aural practice in the language laboratory utilizing audio cassettes and computer programs. Relevant aspects of the cultures and civilization of the Italian-speaking will be included in the course.
4 Units
72 Lecture hours
18 Lab hours

ITAL 102
Italian 102
Prerequisite: ITAL 101
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU
This course is a continuation of ITAL 101; in it the study of Italian grammar is completed. Conversational, reading, and writing skills will continue to be stressed. Student will receive intensive, individualized, oral-aural practice in the language laboratory using audio materials and computer programs. Additional aspects of the culture and civilization of the Italian-speaking population will be presented.
4 Units
72 Lecture hours
18 Lab hours

JAPANESE
Division of Communications & Languages

JPN 101
Japanese 1
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course provides the student with an introduction to the 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 will also receive an introduction to Kanji
characters. In addition to classroom discussion, students receive intensive individualized oral-aural practice in the language laboratory via interactive websites, audio CDs, video programs, and CD ROMs. Various facets of Japanese history, culture, and civilization will also be analyzed via cross-cultural comparisons. This course is intended for those interested in learning to speak Japanese as well as for those seeking a degree in the Japanese language.

4 Units
72 Lecture hours

JAPN 102
Japanese II
Prerequisite: Completion of Japanese 101 with a “C” or better, or completion of 2 years high school Japanese with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is a continuation of the essentials of the Japanese language. The course stresses oral and written proficiency through fundamental use of the Japanese language as well as the Hiragana and Katakana script. Students will further their knowledge of Kanji characters. In addition to classroom discussion, students receive intensive individualized oral-aural practice in the language laboratory via interactive websites, audio CDs, video programs, and CD ROMs. Various facets of Japanese history, culture, and civilization will also be analyzed via cross-cultural comparisons. This course is intended for those interested in learning to speak Japanese as well as for those seeking a degree in the Japanese language.

4 Units
72 Lecture hours

JOURNALISM
Division of Communications & Languages

JOUR 110
Digital Photo Journalism
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course provides an introduction to students in the process of taking photographs using digital cameras, digital video cameras, and digital printing devices, as well as computer skills, photo-composition, printing and scanning techniques using Photoshop for the use of publication, and other computer skills related to contemporary photo journalism. Assignments may include work for college publications. Class is recommended for students majoring in journalism or photography.

3 Units
36 Lecture hours
54 Lab hours

JOUR 120 (C-ID JOUR 110)
Communications Reporting and Writing
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

JOUR 147
Broadcast News
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is for students interested in writing for radio and television and is an introduction to the principles and techniques of broadcast news with special reference to the gathering and writing of news for radio and television, script writing, interviewing, and the procedures and techniques of presenting the news for broadcast. Each student will be assigned to write, direct, edit, and oversee the production of a video broadcast for the college's digital newspaper during the semester.

3 Units
36 Lecture hours
54 Lab hours

JOUR 220
Advanced Reporting and Writing
Prerequisite: JOUR 120 with a grade of “C” or better
Transfers to: CSU
This course is designed to meet lower division requirements for Journalism majors which are transferrable to four-year institutions. JOUR 220 is a continuation of JOUR 120 with an emphasis on improvement of basic skills. This course concentrates on writing and editing of more advanced news and feature stories, factual forms for newspapers and further study of the laws of journalism.

3 Units
54 Lecture hours

JOUR 230
Magazine Production
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: CSU
This course includes writing news, news features, profile features, commentary, and photography for publication in the college magazine, La Cima. Students will learn copy-editing, layout/computer design, Photoshop, digital photography, and advertising fundamentals through the process of writing, editing and laying out the college magazine. Students may take this course once and repeat it one more time for credit.

3 Units
36 Lecture hours
54 Lab hours

JOUR 231
Digital Magazine Production
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is intended for students wanting to learn the production and management techniques of the college online magazine La Cima as an online publication. Students will be shown basic techniques for writing and producing a campus online magazine. Students will be shown through lecture and demonstration the proper techniques for gathering editorial, photo, layout, and video contents for an online magazine and entering and placing the information on the pages of La Cima online.

3 Units
36 Lecture hours
54 Lab hours

JOUR 241
Newspaper Production I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: CSU
This course is intended for students wanting to learn the production and management techniques for a college newspaper. Students will be shown basic techniques for writing and producing the campus newspaper, El Paisano. Students will be shown through lecture and demonstration the proper techniques for gathering editorial, photo, and layout content.
for the newspaper, as well as copy editing, proofreading, Associated Press Style and Libel Laws.

4 Units
36 Lecture hours
108 Lab hours

JOUR 242
Digital Newspaper Production I
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Advisory: JOUR 241
Transfers to: CSU
This course is intended for students wanting to learn the production and management techniques of the college newspaper El Paisano as a weekly online publication. Students will be shown basic techniques for writing and producing a campus online newspaper. Students will be shown through lecture and demonstration the proper techniques for gathering editorial, photo, layout, Associated Press Style, libel laws and video content for an online newspaper and entering and placing the information on the pages of El Paisano online.

4 Units
36 Lecture hours
108 Lab hours

JOUR 243 (C-ID JOUR 131)
Newspaper Production II
Prerequisite: JOUR 242
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
This course is intended for students wanting to continue in an advanced degree the production and management techniques of the college newspaper El Paisano as a weekly online publication. Students will be shown basic techniques for writing and producing the online newspaper. Students will work on KRHC, the student radio station, as an on-air reporter on the community. Students will also work on KRHC, the student radio station to develop audio news programs for the station. Those students wishing to may also develop photo slide presentations of action taken through student activities on campus for the online publication.

4 Units
36 Lecture hours
108 Lab hours

JOUR 290
Cooperative Work Experience/Internship for Journalism Related Fields
Prerequisite: JOUR 120
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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

1 to 4 Units
3 Lecture hours
60 to 300 hours

JOUR 299
Directed Study: Journalism
Transfers to: UC, 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.

1 to 3 Units
54 to 216 Lab hours

KINESIOLOGY

THEORY

Division of Kinesiology, Dance, and Athletics

KIN 115
Fitness Specialist Internship
Prerequisite: Instructor approval
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: CSU
This course will provide students with practical experience in the field of exercise and fitness. Emphasis is placed on participant screening, evaluation, fitness assessment, exercise program design, nutrition education, self-marketing, social media, fitness specialist/client relationships and professional responsibility in a fitness setting. 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. Instructor approval is required for enrollment.

2 Units
18 Lecture hours
54 Lab hours
effect on optimal health. Carbohydrate loading, popular diets and supplementation are discussed. This course is designed for the student pursuing a career in the fitness industry, a certificate in the proposed Fitness Specialist Program, as well as those interested in furthering their understanding of the effects of nutrition on the mind and body.

3 Units
54 Lecture hours

KIN 126
Principles of Strength and Conditioning
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: CSU
This course is designed to include the necessary information needed for those intending 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 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 effects of exercise on the body and mind.

3 Units
54 Lecture hours

KIN 127
Exercise Physiology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: CSU
This course provides an overview of how the body functions under conditions of exercise stress and how fitness training affects health and wellness. Emphasis will be placed on muscular, cardiovascular, respiratory, bioenergetics, and other physiological processes that are affected by exercise. The effects of various diseases will also be addressed. 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 effects of exercise on the body and mind.

3 Units
54 Lecture hours

KIN 128
Fitness Testing and Exercise Prescription
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
Transfers to: CSU
This course provides an overview of how to assess cardiorespiratory endurance, muscular strength and endurance, flexibility, body fat, pulmonary function, blood pressure, postural analysis, and functional movement, and evaluate the results. Emphasis is placed on determining the appropriate test, conducting the test, interpreting the results, and creating an exercise program. This course is designed for the student pursuing a career in the fitness industry or a certificate in the Fitness Specialist Program, as well as those interested in furthering their understanding of the effects of exercise on the body.

3 Units
54 Lecture hours

KIN 131
Structure and Analysis of Movement
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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.

3 Units
54 Lecture hours

KIN 145
Theory and Analysis of Fitness Instruction
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

2 Units
36 Lecture hours

KIN 146
Training Principles for Special Populations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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 cardiac conditions, diabetes, physical disabilities, HIV and AIDS, asthma, sensory impairments, seniors, children, mentally impaired and pregnant and post-partum women and the issues and barriers to exercise. 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.

2 Units
36 Lecture hours

KIN 157
Theory of Lifeguard Training and Water Safety
Prerequisite: Swim 500 yards continuously
Advisory: READ 023 or appropriate assessment
Transfers to: UIC, CSU
This course is designed for all students who are interested in becoming employed as a lifeguard and/or water safety instructor. Students who successfully pass the requirements as established by the American Red Cross will receive Red Cross Lifeguard Training, First Aid, and Water Safety Instructor cards. This class satisfies one course of the Physical Education activity requirements.

3 Units
36 Lecture hours
54 Lab hours

KIN 188
Theory and Practice of Coaching
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
The purpose of this course is to explore the impact that coaches have on athletic programs in the community. This course is designed for all students interested in coaching individual and team sports. The course will cover topics such as role of the coach, athlete motivation, coaching leadership, coaching work...
teams, coaching technology, and effective coaching practice. At the end of the course, students will have more insight into coaching in various athletic programs.

3 Units

54 Lecture hours

KIN 191
Health: Personal Issues
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: KIN 191, KIN 192, or KIN 196)
This course is designed for all students that are physically active and interested in learning how to improve and maintain their personal health. Topics covered include the 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 text readings, lectures, assignments/labs and guest speakers.

3 Units

54 Lecture hours

KIN 192
Health: Women’s Personal Health
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: KIN 191, KIN 192, or KIN 196)
This course is designed for all students interested in expanding their knowledge regarding health problems and social issues unique to women. 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 text readings will assist the student in developing sound health principles.

3 Units

54 Lecture hours

KIN 193 (C-ID KIN 101)
Standard First Aid and CPR
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
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 and Cardiopulmonary Resuscitation (C.P.R.).

3 Units

54 Lecture hours

KIN 194 (C-ID KIN 100)
Introduction to Kinesiology
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
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.

3 Units

54 Lecture hours

KIN 195
Social Issues/Media in Sport
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who are interested in a career in the field of coaching and athletics. This class will study the controversies and the status of sport in our society. Coaching methodologies and future trends in athletics, physical activities, and physical education/kinesiology will be discussed. This class will examine the relationship between sport and media, social media, culture and the economy. An emphasis will be placed on understanding the historical and current roles of sport in society.

3 Units

54 Lecture hours

KIN 196
Health: Fitness and Wellness
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: KIN 191, KIN 192, or KIN 196)
This course is designed for all students who are interested in learning the value of life-long, 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, and cardiovascular functioning.

3 Units

54 Lecture hours

KIN 197
Prevention and Treatment of Athletic Injuries
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course introduces the basic concepts of athletic training, including instruction for prevention, recognition, management and treatment of common injuries in a physically active population. The skills of basic strapping, bracing and taping for the prevention and support of injuries will be presented and practiced. This class is recommended for those interested in becoming a Certified Athletic Trainer.

3 Units

54 Lecture hours

KIN 290
Cooperative Work Experience/Internship for Athletic Training Related Fields
Prerequisite: KIN 197 and a current CPR card
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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. 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 athletic training and have completed or enrolled in the
KIN 101
Tennis I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)

This is a beginning tennis class designed for students who have never played tennis, or have not played in several years. The fundamentals and rules of tennis are taught. The student will also learn how to play doubles and singles matches so that the student can compete on a recreational level.

1 Unit
54 Lab hours

KIN 102
Intercollegiate Baseball I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)

This course is designed for the student interested in competing in baseball at the collegiate level. Instruction will focus on the introduction of advanced drills in the area 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 repeated three times for credit.

1 Unit
54 Lab hours

KIN 103
Softball I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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.

1 Unit
54 Lab hours

KIN 104
Volleyball I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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.

1 Unit
54 Lab hours

KIN 105
Basketball I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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.

1 Unit
54 Lab hours

KIN 107
Badminton I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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.

1 Unit
54 Lab hours

KIN 108
Water Polo I
Transfers to: UC (credit limit*), CSU (*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.

1 Unit
54 Lab hours

KIN 109
Soccer I
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 will include fundamental skills of soccer which include, dribbling, passing, kicking, collecting and basic concepts of offensive and defensive tactics. Rules of the game, skill practice and

*Credits limited to 4 units credit for PE activity courses*
participating in recreational soccer matches will be included.

1 Unit  
54 Lab hours  

KINA 110  
Futsal (Indoor Soccer)  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: CSU  
This class will provide instruction and repetition in the technical and tactical components of Futsal (Indoor Soccer). The Federation of International Football Association (FIFA), which is the governing body of soccer in the world and the United States Soccer Federation (USSF), which is 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 will be introduced to the students. The course will develop skills, provide knowledge of the rules and instruct students to demonstrate Futsal techniques, recognize tactical situations and improve physical fitness.  
1 Unit  
54 Lab hours  

KINA 113  
Golf I  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
Transfers to: UC (credit limit*), CSU (*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 fundamental skills that form the basis of good golf technique. The goal of this class is for the student to learn to play a respectable game of golf, to avoid embarrassment, and to enjoy time outdoors with friends. Etiquette, rules and course play are included.  
1 Unit  
54 Lab hours  

KINA 117  
Swimming I  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
Transfers to: UC (credit limit*), CSU (*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.  
1 Unit  
54 Lab hours  

KINA 120  
Swim for Fitness  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
Transfers to: UC (credit limit*), CSU (*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.  
1 Unit  
54 Lab hours  

KINA 124  
Self Defense  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
Transfers to: CSU  
This course is designed for all students interested in developing both personal safety and self-defense techniques through scenario and martial arts training. Through different forms of martial arts training, students will practice both defensive and offensive moves against various forms of attacks. Proficiency in the practical, effective, and tactical use of movement, leverage and strikes will be stressed.  
1 Unit  
54 Lab hours  

KINA 130  
Lifelong Fitness Laboratory  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)  
This 45-hour, self-paced physical fitness laboratory is designed for all students of the college to develop and encourage positive attitudes and habits with regards to health-related fitness components, including cardiovascular fitness, flexibility, and muscular strength and endurance. Each student, upon entry, will be assessed for risk factors and medical history, as well as body composition, cardiovascular fitness, muscular strength and endurance, and flexibility to establish an individual fitness profile. From this profile, an individual exercise prescription will be developed. Fitness activity will primarily utilize exercise equipment organized into an aerobic super circuit with additional activity prescribed in the aerobics machine area, body parts weight training area, and flexibility area. It is expected that the student will attend an average of three 50 minute exercise sessions each week. Additional assessment at the conclusion of the semester will provide data necessary to evaluate the accomplishment of stated goals. Offered on a pass/no pass basis.  
1 Unit  
54 Lab hours  

KINA 132  
Aqua Aerobics  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
Transfer to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)  
This class is designed to utilize the resistance properties of the water to improve muscle tone, flexibility and cardiovascular health and endurance using various exercise movements. Further, water buoyancy will help support the joints and muscles of the body, enabling students of all levels of fitness and abilities 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, recovering from injuries or who have been inactive would find this class appropriate, therapeutic, and beneficial to their health.  
1 Unit  
54 Lab hours  

KINA 133  
Wrestling I  
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment  
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)  
This wrestling class is designed for the beginner as well as for the student who wishes to increase their knowledge and skill through practice and competition. It is designed to present the following skills to the student: escapes, pinning combination take-downs, and strategies. The student will learn basic definitions, terminology and rules of wrestling. This class will include information on proper nutrition and fitness conditioning.  
1 Unit  
54 Lab hours
KINA 134
Cardio Boot Camp
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed for the student who wishes to improve their cardiovascular and core fitness. The student will learn lifelong skills to improve their health. Workout skills such as core strengthening, cardiovascular fitness, step aerobics and flexibility training will be covered. Instruction in proper diet, heart rate monitoring, skills proficiency and fitness program planning will be provided to each student.
1 Unit
54 Lab hours

KINA 136
Pilates Mat I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
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 in the course. This course is suitable for students interested in dance. Hatha Yoga, athletics and individuals seeking to increase strength to better support the spine in everyday activities.
1 Unit
54 Lab hours

KINA 138
Fitness for Independent Living
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed to help increase fitness levels for the senior population. It is also appropriate for individuals who are physically challenged, engage in limited activity, and those recovering from injury or long-term illness. The purpose of the class is to condition students for strength and flexibility as well as balance, coordination and agility. These skills are important factors in achieving and maintaining the ability to function in daily activities and live independently.
1 Unit
54 Lab hours

KINA 139
Cross Training for Fitness
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This cross-training course is designed for the beginning as well as 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: cycling, running, 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 life-long fitness goals using a variety of cardiovascular mediums.
1 Unit
54 Lab hours

KINA 140
Walking for Fitness
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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.
1 Unit
54 Lab hours

KINA 147
Off-Season Conditioning for Intercollegiate Sports
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 the athlete’s ability to be successful in intercollegiate competition. This course may be repeated three times for credit.
1 Unit
54 Lab hours

KINA 148
Strength Training
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed for students who would like to learn the basic fundamentals of strength and conditioning. Students will be introduced to a variety of routines that will enable them to develop a personal exercise plan.
1 Unit
54 Lab hours

KINA 158
Yoga I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfer to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed for students preparing for intercollegiate athletics. Prerequisite: Participation in Intercollegiate Athletics
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed for students preparing for specific physical fitness related to off-season intercollegiate athletic participation. The
athletic competition. This cross-training course is designed for the advanced student-athlete who wishes to increase all aspects of their fitness levels through a variety of strength, flexibility, aerobic and anaerobic activities. The specific physical fitness routines required by the intercollegiate athlete during the off-season will be addressed. The purpose of the course is to develop a level of physical fitness, strength and conditioning that will enhance the athlete’s ability to be successful in intercollegiate competition. This course may be repeated three times for credit.

1 Unit
54 Lab hours

Intercollegiate Athletics
Coeducational Teams

FEDERAL LAW –TITLE IX (86.41-Athletics)
The Federal Law states the following: “No person shall, on the basis of sex, be excluded from participating in, be denied the benefits of, be treated differently from any other person or otherwise be discriminated against in intercollegiate athletics.” The law continues to state that colleges may operate separate teams for members of each sex. However, where the college operates a team in a particular sport for members of one sex, and no other sex, members who have been excluded may try out for the team offered, unless the sport involved is deemed a “CONTACT SPORT.” Contact sports include football, wrestling, and basketball, and other sports whose basis of major activity involves bodily contact.

Men’s Teams
Teams are limited to enrollment for those students who are candidates for specific teams. The teams spend a minimum of 10 hours a week in preparation for regularly scheduled competition with other colleges.

Women’s Teams
Teams are limited to enrollment for those students who are candidates for specific teams. The teams spend a minimum of 10 hours a week in preparation for regularly scheduled competition with other colleges.

KINA 170
Women’s Intercollegiate Basketball Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*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 basketball. 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 repeated three times for credit.
1.5 Units
81 Lab hours

KINA 171 Women’s Intercollegiate Tennis Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*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 tennis. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 172 Women’s Intercollegiate Volleyball Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*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 volleyball. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 173 Women’s Intercollegiate Softball Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*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 repeated three times for credit.
3 Units
162 Lab hours

KINA 174 Women’s Intercollegiate Swim Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*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 swimming. Students will be required to spend a minimum of 11.25 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
2 Units
180 Lab hours

KINA 175 Women’s Intercollegiate Cross-Country Team
Advisory: READ 022 or appropriate assessment
Transfer to: UC (credit limit*), CSU
(*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 cross country. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 176 Women’s Intercollegiate Soccer Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*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 soccer. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 177 Men’s Intercollegiate Basketball Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*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 basketball. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 178 Men’s Intercollegiate Baseball Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*The UC will grant a maximum of 4 units credit for PE activity courses)
This is an advanced course designed for students that will be competing at the collegiate level in the sport of men’s baseball. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours
course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 181
Men’s Intercollegiate Basketball Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 basketball for pre-season conditioning and 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 other colleges. This course may be repeated three times for credit.
1.5 Units
81 Lab hours

KINA 182
Men’s Intercollegiate Cross-Country Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 cross country. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 184
Men’s and Women’s Intercollegiate Golf Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 golf. Students will be required to spend a minimum of 10 hours a week preparing for competition with other colleges.
2 Units
180 Lab hours

KINA 185
Men’s and Women’s Intercollegiate Swim Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 swimming. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 186
Men’s and Women’s Intercollegiate Track and Field Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 track & field. Students will be required to spend a minimum of 10 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
2 Units
180 Lab hours

KINA 188
Men’s and/or Women’s Intercollegiate Water Polo Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 repeated three times for credit.
3 Units
162 Lab hours

KINA 189
Men’s Intercollegiate Wrestling Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 repeated three times for credit.
3 Units
162 Lab hours

KINA 190
Men’s Intercollegiate Soccer Team
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 soccer. Students will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 192
Women’s Intercollegiate Sand Volleyball Team
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: CSU
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 will be required to spend a minimum of 10.125 hours a week preparing for competition with other colleges. This course may be repeated three times for credit.
3 Units
162 Lab hours

KINA 201
Tennis II
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; KINA 101
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for 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.
1 Unit
54 Lab hours

KINA 202
Intercollegiate Baseball II
Advisory: KINA 102
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed for the advanced baseball student interested in 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.
1 Unit
54 Lab hours
KINA 203
Off Season Softball
Advisory: KINA 103
Transfers to: UC (credit limit*), CSU (*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.
1 Unit
54 Lab hours

KINA 204
Volleyball II
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; KINA 104
Transfers to: UC (credit limit*), CSU (*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 will develop the intermediate skills of setting, serving, passing, spiking, team offense of 6-1, 5-1 and defensive coverage. Rules and class competition are included.
1 Unit
54 Lab hours

KINA 205
Basketball II
Prerequisite: KINA 105 or instructor approval for admission
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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.
1 Unit
54 Lab hours

KINA 206
Off Season Women’s Intercollegiate Volleyball Training
Prerequisite: Participation in Intercollegiate Athletics
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed for the advanced volleyball student interested in competing at the collegiate level. Instruction will focus on advanced techniques in serving, passing, setting, hitting, plus jump serving, jump set, jump attack, various defensive patterns and team play training and conditioning. Special attention will be placed on preparing students for intercollegiate competition. This course may be repeated three times for credit.
1 Unit
54 Lab hours

KINA 207
Badminton II
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; KINA 107
Transfers to: UC (credit limit*), CSU (*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.
1 Unit
54 Lab hours

KINA 209
Soccer II
Prerequisite: KINA 109
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU
This advanced soccer activity class is designed for all students interested in developing the physical, technical and tactical elements of the game of soccer. The course will include analysis of fundamental skills, game strategy, team offense and team defense through participation and an overview of rules. This is an advanced soccer class designed to take the student beyond recreational skills. Team tactics, strategies and systems of play will be emphasized.
1 Unit
54 Lab hours

KINA 210
Swimming III
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This is an advanced swimmer’s 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.
1 Unit
54 Lab hours

KINA 211
Off-Season Intercollegiate Tennis
Prerequisite: Participation in Intercollegiate Sports
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This course is designed for the advanced tennis student interested in competing 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 repeated three times for credit.
1 Unit
54 Lab hours

KINA 212
Golf II
Prerequisite: KINA 113
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 to 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.
1 Unit
54 Lab hours

KINA 213
Swimming II
Transfers to: UC (credit limit*), CSU (*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.
1 Unit
54 Lab hours

KINA 218
Swimming III
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This is an advanced swimmer’s class designed to provide the individual with the opportunity to master the coordination of six swimming strokes in order to swim effectively with ease, endurance, and versatility in the water. More advanced safety and rescue skills are also included.
1 Unit
54 Lab hours
KINA 230
Lifelong Fitness Center II - Cardiovascular Fitness
Prerequisite: KINA 130 or PE 130
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment
Transfers to: UC (credit limit*), CSU (*The UC will grant a maximum of 4 units credit for PE activity courses)
This class is a course designed to give the student the skills and information to improve their own cardiovascular fitness. This class will involve instruction and practice in techniques that will promote cardiovascular fitness: running, jump rope, core training, aerobic activity, aerobic circuit and resistance bands. The student will learn about the importance of blood pressure, heart rate and diet in relation to cardiovascular disease.
1 Unit
54 Lab hours

KINA 258
Yoga II
Prerequisite: KINA 158
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfer to: CSU
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, Prasarita Padottanasana, Malasana, Garudasana, Natasajasana, Uthita Hasta Padangusthasana, Chataranga Dandasana, Purvottanasana, Navasana, Virasana, Ustrasana, Matsyasana, Sarvangasana, Surya Namaskar B will be covered in depth during the course.
1 Unit
54 Lab hours

KINA 270
Women’s Intercollegiate Basketball Team II
Prerequisite: KINA 170
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 basketball 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 repeated three times for credit.
1.5 Units
81 Lab hours

KINA 281
Men’s Intercolligate Basketball Team II
Advisory: READ 022 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*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 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 repeated three times for credit.
1.5 Units
81 Lab hours

LANDSCAPE
Division of Career & Technical Education
LAND 095
Introduction to Landscape Design & Maintenance
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 105
This introductory course is designed for students interested in the field of Landscape Architecture or Landscape Design. Fundamental principles and concepts essential to landscape design development will be introduced through lectures, readings, discussions, field trips, and assignments. Natural and human determinants that shape the landscape will be explored in addition to the study of the theory, history, and role of the landscape architecture profession in environmental design.
4 Units
54 Lecture hours
54 Lab hours

LATIN
Division of Communications & Languages
LATN 101
Latin I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
Latin I introduces students to the classics, enhances their understanding of basic grammar, exposes them to authentic pronunciation, increases their knowledge of vocabulary, derivatives, and acquaints them with Roman history and culture. This class is designed for students who plan to major in Classics, History, Philosophy, or Languages and would also be important for those going into
LIT 102 Approaches to Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.
3 Units
54 Lecture hours

LATN 102 Latin II
Prerequisite: Successful completion of LATN 101
Transfers to: UC, CSU
Latin II increases students’ understanding of the classics, enhances their understanding of grammar and vocabulary, exposes them to authentic pronunciation, increases their knowledge of vocabulary derivatives, and acquaints them further with Romance languages and the Latinate vocabulary of English. The history and culture of the Roman Empire, including the spread of the Empire, institutions, literature, and the arts will be further explored. This class is designed for students who plan to major in Classics, History, Philosophy, or Languages and would also be important for those going into law, medicine, and other fields where Latinate terminology is common.
3 Units
54 Lecture hours

LIB 101 Fundamentals of Library Research
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; CIT 100A
Transfers to: UC, CSU
This course promotes information literacy by introducing students to the resources available in an academic library, including books, online catalogs, online databases, and Web sources. Students learn how to define their research problem, apply appropriate search tools, analyze and evaluate information and search strategies, and use information ethically and legally. The critical thinking skills and research strategies learned in this class will benefit students who need to find information for college-level research assignments, career demands, and lifelong learning.
3 Units
54 Lecture hours

LIT 112A (C-ID ENGL 130) American Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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 the 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, students interested in learning more about cultural expression in the Americas, and students majoring in English or Liberal Studies.
3 Units
54 Lecture hours

LIT 112B (C-ID ENGL 135) American Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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 mid-nineteenth century to the present. It introduces students, through class discussions and written essays, to representative writers of this period such as Emily Dickinson, Mark Twain, Edith Wharton, Robert Frost, Zora Neale Hurston, William Faulkner, Ernest Hemingway, Tennessee Williams, Lorraine Hansberry, Henry David Hwang, Toni Morrison, Leslie Marmon Silko, Maxine Hong Kingston, Mileha Sanchez-Scott, and others.
3 Units
54 Lecture hours
This course is designed for students interested in exploring various genres of literature, students interested in learning more about Mexican cultural expression, and students majoring in Chicano Studies. This course is intended for students eligible in the honors program.

3 Units
54 Lecture hours

LIT 130H
Women and Literature Honors
Prerequisite: ENGL 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU

This course explores women writers, their lives, the roles they play in culture and society, and how they have influenced the world. Students will examine topics such as female authorship, literary influence, evolution of technique, the effects of race and class, and the environments in which works were written, including but not limited to American, British, Asian, Hispanic, Native American, and African cultures. Stress is placed on critical thinking, critical reading, and composing. Feminist, literary, and political theory will be 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.

3 Units
54 Lecture hours

LIT 117H
Mexican Literature in Translation Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU

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, students interested in learning more about Mexican cultural expression, and students majoring in Chicano Studies.

3 Units
54 Lecture hours

LIT 114H (C-ID ENGL 180)
Children’s and Adolescent Literature Honors
Prerequisite: ENGL 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU

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. This course will explore works of children’s and adolescent literature from ancient times to the present, analyze the literary elements of these works, assess their value for both children and adults, and examine the historical and cultural environments in which they were written, including but not limited to Asian, Hispanic, Native American, and African cultures. 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.

3 Units
54 Lecture hours

LIT 117
Mexican Literature in Translation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

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, students interested in learning more about Mexican cultural expression, and students majoring in Chicano Studies.

3 Units
54 Lecture hours

LIT 114
Children’s and Adolescent Literature
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

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. This course will explore works of children’s and adolescent literature from ancient times to the present. It introduces students, through class discussions and written essays, to representative writers of this period such as Emily Dickinson, Mark Twain, Edith Wharton, Robert Frost, Zora Neale Hurston, William Faulkner, Ernest Hemingway, Tennessee Williams, Lorraine Hansberry, Henry David 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.

3 Units
54 Lecture hours

LIT 112BH (C-ID ENGL 135)
American Literature Honors
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: LIT 112 or LIT 112B)

This course is designed for students interested in exploring American literature from the mid-nineteenth century to the present. It introduces students, through class discussions and written essays, to representative writers of this period such as Emily Dickinson, Mark Twain, Edith Wharton, Robert Frost, Zora Neale Hurston, William Faulkner, Ernest Hemingway, Tennessee Williams, Lorraine Hansberry, Henry David 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.

3 Units
54 Lecture hours

LIT 112B (C-ID ENGL 135)
American Literature Honors
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: LIT 112 or LIT 112B)

This course is designed for students interested in exploring American literature from the mid-nineteenth century to the present. It introduces students, through class discussions and written essays, to representative writers of this period such as Emily Dickinson, Mark Twain, Edith Wharton, Robert Frost, Zora Neale Hurston, William Faulkner, Ernest Hemingway, Tennessee Williams, Lorraine Hansberry, Henry David 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.

3 Units
54 Lecture hours

LIT 130
Women and Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU

This course explores women writers, their lives, the roles they play in culture and society, and how they have influenced the world. Students will examine topics such as female authorship, literary influence, evolution of technique, the effects of race and class, and the environments in which works were written, including but not limited to American, British, Asian, Hispanic, Native American, and African cultures. Stress is placed on critical thinking, critical reading, and composing. Feminist, literary, and political theory will be 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.

3 Units
54 Lecture hours
This course introduces students to a variety of approaches to the novel. Course readings will include poems on diverse topics representing the fundamental modes, historical periods, and cultural traditions. Students will 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 wish to expand their knowledge and appreciation of poetry.

3 Units
54 Lecture hours

LIT 142H
Introduction to Shakespeare Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
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 the sonnet cycle are studied.

3 Units
54 Lecture hours

LIT 143
Exploring Authors
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This one-unit course is designed for students who wish to study the literary works of one author in depth. Students will 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.

1 Unit
18 Lecture hours

LIT 144A (C-ID ENGL 140)
World Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course introduces students to a wide range of world literature from antiquity, the Middle Ages, and the Renaissance. Although the emphasis is 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.

3 Units
54 Lecture hours

LIT 144B (C-ID ENGL 145)
World Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course introduces students to a wide range of world literature from the seventeenth century to the present. Although the emphasis is 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.

3 Units 54 Lecture hours

LIT 145
Introduction to the Short Story
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.

3 Units 54 Lecture hours

LIT 145H
Introduction to the Short Story Honors
Prerequisite: ENGL 101 with a grade “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.

3 Units 54 Lecture hours

LIT 146A (C-ID ENGL 160)
British Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students who are interested in learning about British literature from the Old English period to the beginning of the nineteenth century. The following major British writers will be discussed: Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, Boswell, Fielding, and others.

3 Units 54 Lecture hours

LIT 146AH (C-ID ENGL 160)
British Literature Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students who are interested in learning about British literature from the Old English period to the beginning of the nineteenth century. The following major British writers will be discussed: Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, Boswell, Fielding, and others. This course is designed for students eligible for the Honors Program.

3 Units 54 Lecture hours

LIT 146B (C-ID ENGL 165)
British Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students interested in learning about British literature written from the beginning of the nineteenth century to the present. The following major British writers will be discussed: Austen, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, Eliot, and others. This course is designed for students eligible for the Honors Program.

3 Units 54 Lecture hours

LIT 146BH (C-ID ENGL 165)
British Literature Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students interested in learning about British literature written from the beginning of the nineteenth century to the present. The following major British writers will be discussed: Austen, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, Eliot, and others. This course is designed for students eligible for the Honors Program.

3 Units 54 Lecture hours

LIT 147
Cinema as Literature
Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is for students interested in learning about the aesthetics of film making, especially with regard to adaptation of literature to the cinematic medium. Films will be analyzed and evaluated according to their historical, social, cultural, aesthetic, and technical significance. Both American and international film making will be covered.

3 Units 54 Lecture hours

LIT 148
Introduction to Dramatic Literature
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course introduces students to a wide range of dramatic literature, from the plays of ancient Greece to contemporary drama. Students will study 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, students intending to major in a literary or arts-related field of study, and students intending to enter the teaching profession.

3 Units 54 Lecture hours

LIT 149
Introduction to Chicana/Chicano Literature
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: UC, CSU
This course explores a range of Chicana/Chicano 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 be from a variety of genres including essays, poetry, fiction, oral histories, corridos, and autobiography by writers throughout the Southwest. This course is designed for students interested in exploring various genres of literature, students interested in learning more about Chicana/o cultural expression, and students majoring in Chicano Studies.

LIT 299
Directed Study: Literature
Transfers to: UC, 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 exemption 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.

1 to 3 Units
54 to 216 Lab hours

LOGISTICS
Division of Business

LOG 101
Supply Chain Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042
Transfers to: CSU
This course is intended 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. The student will examine the processes for planning, sourcing, making, delivering, and returning products in order to integrate suppliers and customers into an organization’s supply chain. The student will receive an overview of career opportunities within the logistics and supply chain management field.

3 Units
54 Lecture hours

LOG 105
Purchasing Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042; 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.

3 Units
54 Lecture hours

LOG 110
Warehouse Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042; LOG 101
Transfers to: CSU
This course is intended for students seeking a career in logistics or supply chain management. This course provides the essential skills for warehouse managers, with emphasis on the planning, protection, productivity, and quality control functions in warehouse and distribution operations. Topics include warehouse design and layout, effective communications, industry terminology, technology, distribution systems, inventory management and protection, accountability, auditing, and safety rules and regulations. This course is intended for students seeking a career in logistics or supply chain management.

3 Units
54 Lecture hours

LOG 115
Inventory Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042; 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. The student 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.

3 Units
54 Lecture hours

LOG 120
Transportation Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042; 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.

3 Units
54 Lecture hours

LOG 125
Contract Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042; 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 the legal and regulatory requirements applicable to
contracts for product transportation and logistics functions and considerations for drafting and negotiating contracts with freight carriers, warehousemen and other logistics service providers.

2 Units
36 Lecture hours

LOG 130
Computerized Logistics
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042; 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 the need and use of computers in the supply chain and logistics industry and an introduction to the software that is available, such as enterprise resource planning, demand planning, and warehouse management.

3 Units
54 Lecture hours

LOG 135
Quality Management Concepts
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment; CIT 042; 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 the basic principles, objectives, and policies of a quality management program. Topics include the implementation of continuous quality improvement and the understanding of the various quality philosophies, such as Deming’s 14 points, process management, ISO 9000 certification, Six Sigma efforts, the Baldridge award criteria, and an introduction to statistical process control.

3 Units
54 Lecture hours

MANAGEMENT
Division of Business

MGMT 050
Business English
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed for the student who is seeking a career in business and wants a review of the fundamentals of English. Topics include grammar, sentence structure, paragraph development, punctuation, capitalization, spelling, and vocabulary building as they apply to effective business communication.

3 Units
54 Lecture hours

MGMT 052
Business Mathematics
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment.
This course consists of the fundamental operations of business which are mathematical in application. Topics covered include percent, payroll, mathematics of buying and selling, simple and compound interest, annuities, business and consumer loans, taxes and insurance, depreciation, financial statements, and business statistics. This course provides solid preparation for students going on to further study in accounting, management, marketing, retailing, real estate, or office administration.

3 Units
54 Lecture hours

MGMT 070
Customer Service
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This course is designed for students who need to develop their skills as customer service representatives. Students will learn how to identify customer behavior, determine customer needs through active listening, improve their verbal and nonverbal communications, develop telephone customer service skills, learn how to handle difficult customers, and learn how to deal with a diverse business environment. The emphasis of the class will be on learning new techniques and then applying them in work situations. 9-week course, 2 sessions each semester.

3 Units
54 Lecture hours

MGMT 072
Professionalism in Business
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
The purpose of this course is to develop an attitude of professionalism in students and to provide them with the soft skills necessary to succeed in the workplace. The everyday courtesies that put others at ease in the business environment and guidelines for handling the new challenges that have become part of the American workplace are an integral part of this curriculum. Workplace behavior, social etiquette, and professional appearance form the core areas of study. This is a nine-week module.

1.5 Units
54 Lecture hours

MGMT 101
(C-ID BUS 110)
Introduction to Business
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment
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 will transfer to a four-year school.

3 Units
54 Lecture hours

MGMT 105
Elements of Supervision
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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.

3 Units
54 Lecture hours

MGMT 108
Business Writing
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MGMT 050
Transfers to: CSU
This 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.

3 Units
54 Lecture hours

MGMT 120
Human Relations in Business
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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.

3 Units
54 Lecture hours

**MGMT 130**
**Small Business Management-Entrepreneurship**  
*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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.

3 Units
54 Lecture hours

**MGMT 140**
**Introduction to International Business**  
*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment*  
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 will 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.

3 Units
54 Lecture hours

**MGMT 141**
**International Marketing**  
*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment*  
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 will also be explored. The students will 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.

3 Units
54 Lecture hours

**MGMT 142**
**International Management**  
*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment*  
Transfers to: CSU  
This course is designed to provide students with a comprehensive overview of the management practice as it relates to international business. An emphasis will be placed on the planning, problem solving, organizational structure, human resource management, and production management as it relates to international competition. These functions of management will all be evaluated and examined under international competitive situations and cross-cultural boundaries. This course is designed for international business major and those interested in furthering their knowledge of business culture, strategy and behavior issues in the global context.

3 Units
54 Lecture hours

**MGMT 143**
**Import and Export Business**  
*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment*  
Transfers to: CSU  
This introductory course is designed to provide students with an understanding of International Trade, specifically with regard to Import/ Export. The course is designed for those who want to enter the field of Trade and International Business or for those who wish to further their knowledge and understanding of International Business and International Trade.

3 Units
54 Lecture hours

**MGMT 144**
**International Banking and Finance**  
*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment*  
Transfers to: CSU  
The introductory course provides an understanding of international finance, international banking, monetary systems, sources of funds, methods of payments and methods for assessing financial risk. It includes an understanding and appreciation of the relationship between government (international, national, and local) and international banks. The course is designed for students who want to enter the International Finance/Banking field or for those who wish to further their knowledge and understanding of International Banking & Finance.

3 Units
54 Lecture hours

**MGMT 146**
**Human Resources Management**  
*Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment*  
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.

3 Units
54 Lecture hours

**MGMT 150**
**Principles of Management**  
*Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MGMT 101*  
Transfers to: CSU  
This course is designed for the student who is seeking a career in management or for the student who needs to expand his/her knowledge of management techniques and organizational methods. In this course, students will learn the theory and application of managerial functions as it applies to planning, organizing, leading, and controlling organizations. Additional topics to be covered will 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 will also be explored in this course.

3 Units
54 Lecture hours

**MGMT 155**
**Principles of Leadership**  
*Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment*  
Transfers to: CSU  
This course is intended for professionals who want to develop
Perform qualitative and quantitative risk analysis, plan risk responses, and monitor and control risk responses.

2 Units
36 Lecture hours

MGMT 166
Project Management Practicum
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; CIT 101
Transfers to: CSU
This course is intended for students seeking a career in project management. This is a hands-on capstone course providing students with practice in the five project management process groups and the nine knowledge areas. Students will simulate a project based on case studies. The case studies will require the completion of project planning documents under typical business constraints. The case studies will be completed in a team environment.

2 Units
36 Lecture hours

MGMT 208
Business Communications
Prerequisite: ENGL 101
Transfers to: CSU
This 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 satisfies the business communications component for the Associates of Sciences Degree in Business Administration for transfer (TMC).

3 Units
54 Lecture hours

MGMT 290
Cooperative Work Experience/Internship for Business Management Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course supports and reinforces on-the-job training in business and industrial establishments under supervision of a college instructor who 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
1 to 4 Units
3 Lecture hours
60 to 300 hours

MARKETING
Division of Business

MRKT 170
Elements of Marketing
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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.

3 Units
54 Lecture hours

MRKT 171
Consumer Behavior
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MGMT 101
Transfers to: CSU
This class investigates and analyzes the reasons why consumers select, purchase, use, and dispose of goods and services to satisfy their personal and household needs. Topics to be explored include consumer culture, group influence, consumption patterns, and consumer attitudes and lifestyles as well as other relevant topics. This class is appropriate for the marketing major and anyone who wants to know why people buy.

3 Units
54 Lecture hours

MRKT 172
Advertising and Promotion
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MGMT 101
Transfers to: CSU
This course is designed to introduce students to the creative and competitive field of advertising and promotion. Course content includes 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 the marketing major or anyone interested in advertising and promotion.

3 Units
54 Lecture hours

MRKT 173
Principles of Selling
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

MRKT 174
Small Business Marketing and Advertising
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MGMT 101
Transfers to: CSU
This class provides useful and effective marketing and advertising tools and techniques to those students who have or would like to own a small business. A special emphasis is placed on the fundamentals of marketing and guerrilla marketing and advertising techniques. Topics for discussion will include marketing plan strategies, marketing research, marketing channel management, retail and pricing strategies, and cost-effective guerrilla advertising techniques for small businesses.

3 Units
54 Lecture hours

MRKT 175
Retail Management
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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.

3 Units
54 Lecture hours

MASS COMMUNICATIONS
Division of Communications & Languages

MSCM 103
Survey of Motion Picture, Radio and Television
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit *), CSU
(*Students will receive credit from UC for only one of the following courses: MSCM 103 or MSCM 128)
This course presents a broad survey of the history, theory, aesthetic principles, and production techniques used in the making of motion pictures, radio, and television programs. Students will view or listen to numerous television shows, motion pictures, films, and radio programs in order to become familiar with various production techniques and methods of critically evaluating media presentations. Guest lecturers and field trips to film, TV shows, and radio studios may be scheduled.

3 Units
54 Lecture hours

MSCM 128 (C-ID JOUR 100)
Mass Media in Modern Society
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit *), CSU
(*Students will receive credit from UC 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.

3 Units
54 Lecture hours

MSCM 134
Documentary Film
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This is an inquiry into the origin, purpose, development, and current trends of the documentary (non-fiction) film. The class will view and critique the great documentaries ranging from Nanook of the North to Woodstock. The future of the medium in business, government, education, and television will also be discussed.

3 Units
54 Lecture hours

MATH 009
Enrichment Activities for Mathematics
This course is designed to support the objectives of the corequisite mathematics course. Activities are designed to further student understanding and
appreciation of mathematical principles. Applications and explorations of concepts covered in the corequisite course are emphasized. These instructional activities are not available for discussion/lecture format and are not required for the grade in the corequisite course.

0 Units
0 Lab hours

MATH 020
Basic Mathematics
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 021 or appropriate assessment; Individual modules to be taken in sequence.
This course is designed for students who need a review of the basic principles and skills of arithmetic. The general areas of review are: operations with whole numbers and fractions; operations with decimals and proportional thinking; percent problems and applications to percents. Students may enroll in MATH 020 in a lecture section for three units of credit or in individual one-unit modules: MATH 020A, 020B, and 020C in the Math and Science Center (MSC). This is a non-degree credit course.
3 Units
54 Lecture hours

MATH 020A
Basic Mathematics A
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 021 or appropriate assessment; Individual modules to be taken in sequence.
This course is designed for students who need a review of the basic principles and skills of arithmetic. See MATH 020 for more information.
1 Unit
18 Lecture hours

MATH 020B
Basic Mathematics B
Prerequisite: MATH 020A with a “C” or better
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 021 or appropriate assessment; Individual modules to be taken in sequence.
This course is designed for students who need a review of the basic principles and skills of arithmetic. See MATH 020 for more information.
1 Unit
18 Lecture hours

MATH 020C
Basic Mathematics C
Prerequisite: MATH 020B with a “C” or better
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 021 or appropriate assessment; Individual modules to be taken in sequence.
This course is designed for students who need a review of the basic principles and skills of arithmetic. See MATH 020 for more information.
1 Unit
18 Lecture hours

MATH 021
Basic Mathematics and Study Skills
Advisory: ENGL 030 or ENLA 024 or appropriate assessment; READ 022 or appropriate assessment
This course is designed for the student who needs an introduction to the study skills required to succeed in a college mathematics course, as well as a comprehensive review of the basic principles and skills of mathematics. The general areas of mathematics review are operations with whole numbers and fractions, operations with decimals, percent problems and applications to percent, and proportional thinking. Special attention is given to the following study skills: reading a math book, completing homework assignments, taking notes, studying for exams, approaching word problems, and getting help. Other topics include learning styles and attitudes and behaviors that are beneficial to success in mathematics. This is a non-degree credit course.
4 Units
72 Lecture hours

MATH 028
What’s Math got to do with it?
Corequisite: Concurrent enrollment in MATH 020 or MATH 020C or MATH 030 or MATH 030D or MATH 033
Advisory: ENGL 030 or ENLA 024 or appropriate assessment; READ 021 or appropriate assessment
This course is designed for the student who struggles with mathematics. It explores why it is important to study mathematics and to develop a number sense. The student will gain an understanding of attitudes and behaviors that are beneficial to success in mathematics and will learn to avoid those that are counterproductive. Each student will be provided with a multitude of study skills that are appropriate for individual learning styles. The student will learn how to stay motivated; read the math book; complete homework assignments; take notes; study for exams; approach word problems and get help. The students will be introduced to the tutoring software packages that are bundled with most text books and provide free help. Concurrent enrollment in MATH 020 or MATH 020C, MATH 030 or MATH 030D or MATH 033 is required. This will provide the student with immediate application of the skills learned and support throughout the semester.
1 Unit
18 Lecture hours
18 Lab hours

MATH 030
Prealgebra
Prerequisite: MATH 020 or MATH 021 or MATH 020C with a “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; MATH 020 or MATH 020C
This course is designed primarily for students who know the fundamentals of arithmetic, and have had little or no background in algebra. The course strengthens the student’s arithmetic and informal geometry skills, provides an introduction to the abstractions of algebra using fundamental principles of rational numbers, order of operations, and solving linear equations. Students may enroll in MATH 030 in a lecture section for four units of credit, or individual one-unit modules 030A, 030B, 030C, and 030D in the Math and Science Center (MSC).
4 Units
72 Lecture hours

MATH 030A
Prealgebra A
Prerequisite: MATH 020 or MATH 021 or MATH 020C with a “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
This course is designed primarily for students who know the fundamentals of arithmetic, and have had little or no background in algebra. See MATH 030 for more information.
1 Unit
18 Lecture hours

MATH 030B
Prealgebra B
Prerequisite: MATH 030A with a “C” or better
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; MATH 020 or MATH 021
This course is designed primarily for students who know the fundamentals of arithmetic, and have had little or no background in algebra. See MATH 030 for more information.
1 Unit
18 Lecture hours

MATH 030C
Prealgebra C
Prerequisite: MATH 030B with a “C” or better
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; MATH 020 or MATH 021
This course is designed primarily for students who know the fundamentals of arithmetic, and have had little or no background in algebra. See MATH 030 for more information.
1 Unit
18 Lecture hours
It is designed primarily for those students who have no prior training in algebra or need a review of the fundamentals of algebra. Topics include: numbers and their properties, operations with real numbers, exponents, solutions and graphs of linear equations, slopes of lines, system of linear equations and applications, operations with polynomials including factoring, solving quadratic equations, operations with simple rational and radical expressions. Students may enroll in MATH 050 in a lecture section for four units of credit, or individual one-unit modules 050A, 050B, 050C, and 050D in the Math and Science Center (MSC) or online.

4 Units
90 Lecture hours

MATH 050B
Elementary Algebra B
Prerequisite: MATH 050A with a grade of “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
This course is an introduction to the basic principles and skills of algebra. It is designed primarily for those students who have no prior training in algebra or need a review of the fundamentals of algebra. See MATH 050 for more information.
1 Unit
22.5 Lecture hours
fundamentals of algebra. See MATH 050 for more information.

1 Unit

22.5 Lecture hours

MATH 050C
Elementary Algebra C
Prerequisite: MATH 050B with a grade of “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course is an introduction to the basic principles and skills of algebra. It is designed primarily for those students who have no prior training in algebra or need a review of the fundamentals of algebra. See MATH 050 for more information.

1 Unit

22.5 Lecture hours

MATH 050D
Elementary Algebra D
Prerequisite: MATH 050C with a grade of “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course is an introduction to the basic principles and skills of algebra. It is designed primarily for those students who have no prior training in algebra or need a review of the fundamentals of algebra. See MATH 050 for more information.

1 Unit

22.5 Lecture hours

MATH 053
Fast-Track Elementary Algebra
Prerequisite: MATH 030 or MATH 030D or MATH 033 with a grade of “C” or better or appropriate skill level as determined by participation in the math placement process
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

This is the second of three math courses designed to allow students to complete developmental math courses at a faster rate of speed than the traditional lecture course. It is designed primarily for those students who need to learn the fundamentals of algebra. This course consists of topics including solutions and graphs of linear equations and inequalities, slopes of lines, systems of linear equations and applications, operations with polynomials including factoring and solving quadratic equations.

4 Units

72 Lecture hours

MATH 060
Geometry
Prerequisite: MATH 050 or MATH 050D or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 024 or appropriate assessment; READ 023 or appropriate assessment

This course is an introduction to the elements of geometry, including points, lines, planes, and angles. These elements are used in conjunction with triangles, polygonal and circular figures in both two and three dimensional configurations. Formulas for computing lengths, areas, and volumes are presented through the use of applications. This course is intended for students who have not had or completed two semesters of high school geometry or who need a refresher prior to taking trigonometry, technology courses, mathematics for elementary teachers or other courses with a geometry prerequisite.

3 Units

54 Lecture hours

MATH 070
Intermediate Algebra
Prerequisite: MATH 050 or MATH 050D or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU if taken prior to the Fall Semester, 1988

This course is designed for students who have completed an elementary algebra course and need to complete an additional course in algebra before proceeding to a college level transferable course. See MATH 070 for more information.

1 Unit

22.5 Lecture hours

MATH 070A
Intermediate Algebra A
Prerequisite: MATH 050 or MATH 050D or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 030 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU if taken prior to the Fall Semester, 1988

This course is designed for students who have completed an elementary algebra course and need to complete an additional course in algebra before proceeding to a college level transferable course. See MATH 070 for more information.

1 Unit

22.5 Lecture hours

MATH 070B
Intermediate Algebra B
Prerequisite: MATH 070A with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU if taken prior to the Fall Semester, 1988

This course is designed for students who have completed an elementary algebra course and need to complete an additional course in algebra before proceeding to a college level transferable course. See MATH 070 for more information.

1 Unit

22.5 Lecture hours

MATH 070C
Intermediate Algebra C
Prerequisite: MATH 070B with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU if taken prior to the Fall Semester, 1988

This course is designed for students who have completed an elementary algebra course and need to complete an additional course in algebra before proceeding to a college level transferable course. See MATH 070 for more information.

1 Unit

22.5 Lecture hours

MATH 070D
Intermediate Algebra D
Prerequisite: MATH 070C with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU if taken prior to the Fall Semester, 1988

This course is designed for students who have completed an elementary algebra course and need to complete an additional course in algebra before proceeding to a college level transferable course. See MATH 070 for more information.

1 Unit

22.5 Lecture hours
MATH 072
The Mathematics of Money
Prerequisite: MATH 050 or MATH 050D or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed for students who have completed an elementary algebra course and need to complete an additional course in algebra before proceeding to a college level transferable course. The course is divided into linear equations in more than two variables, radical and rational expressions and equations, complex absolute value equations and inequalities, relations and functions, synthetic division, graphs of functions, exponential and logarithmic expressions and their applications, as well as complex numbers.
4 Units
72 Lecture hours

MATH 073
Fast-Track Intermediate Algebra
Prerequisite: MATH 050 or MATH 050D or MATH 053 with a grade of “C” or better or appropriate skill level as determined by participation in the math placement process
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
This is the third of three math courses designed to allow students to complete developmental math courses at a faster rate of speed than the traditional lecture course. This course is designed for students who have completed an elementary algebra course and need to complete an additional algebra course before proceeding to a college level transferable course. The course is a study of systems of linear equations in more than two variables, radical and rational expressions and equations, complex absolute value equations and inequalities, relations and functions, synthetic division, graphs of functions, exponential and logarithmic expressions and their applications, as well as complex numbers.
4 Units
72 Lecture hours

MATH 104
Math Tutoring Discussion
Prerequisite/Corequisite: MATH 103
Transfers to: CSU
This course is designed for students who currently peer-tutor and students who tutor at elementary, middle, high schools or college. The discussion will assist the students with solving problems that occur in tutoring situations and expand their mathematical problem solving skills.
0.5 Units
9 hours

MATH 120
Finite Mathematics
Prerequisite: MATH 070 or MATH 070D or MATH 073 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students majoring in business and social sciences. Topics will include: modeling with linear equations, matrix theory, linear programming, set theory, counting, probability, and statistics.
4 Units
72 Lecture hours

MATH 130
Statistics
Prerequisite: MATH 070 or MATH 070D or MATH 073 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 101 or appropriate assessment; READ 101 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: MATH 130 or MATH 130H)
This course is designed for students majoring in business, social sciences, and life sciences. This course provides an overview of descriptive and inferential statistics. The students learn to read, interpret and present data in a well-organized way. This includes frequency distributions, graphs, measures of central tendency and variability, correlation and linear regression. While discussing inferential statistics, the students learn to make generalizations about populations. This includes probability, sampling techniques, confidence intervals, and hypothesis tests. This course is intended for students who meet Honors Program requirements.
4 Units
72 Lecture hours

MATH 130H
Statistics Honors
Prerequisite: MATH 070 or MATH 070D or MATH 073 with a grade of “C” or better or appropriate assessment
Minimum GPA of 3.0; ENGL 101 with a grade of “C” or better
Advisory: READ 101 or appropriate assessment
Transfers to: UC 101 or appropriate assessment
This course is designed for students majoring in business, social sciences, and life sciences. This course provides an overview of descriptive and inferential statistics. The students learn to read, interpret and present data in a well-organized way. This includes frequency distributions, graphs, measures of central tendency and variability, correlation and linear regression. While discussing inferential statistics, the students learn to make generalizations about populations. This includes probability, sampling techniques, confidence intervals, and hypothesis tests.
4 Units
72 Lecture hours

MATH 140
Mathematics for Elementary Teachers
Prerequisite: MATH 070 or MATH 070D or MATH 073 with a grade of “C” or better or appropriate assessment
Minimum GPA of 3.0; ENGL 101 with a grade of “C” or better
Advisory: READ 101 or appropriate assessment
Transfers to: UC, CSU
(*Students will receive credit from UC for only one of the following courses: MATH 130 or MATH 130H)
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.
4 Units
72 Lecture hours

MATH 103
Math Tutoring Skills
Prerequisite: MATH 070 or MATH 070D or MATH 073 or appropriate assessment
Prerequisite/Corequisite: ED 090
Transfers to: CSU
This course is designed for students who seek to peer-tutor and students who aim to tutor at elementary, middle, high school or college. The course will provide the student with the skills to appropriately help, explain, and assist others solve math problems without assistance.
4 Units
72 Lecture hours

MATH 070D
Preparation for Intermediate Algebra
Prerequisite: MATH 050 or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed for students who need to complete an additional course in algebra before proceeding to a college level transferable course. The course is a study of systems of linear equations in more than two variables, radical and rational expressions, and equations, complex absolute value equations and inequalities, relations and functions, synthetic division, graphs of functions, exponential and logarithmic expressions and their applications, as well as complex numbers.
4 Units
72 Lecture hours

MATH 070
Preparation for Intermediate Algebra
Prerequisite: MATH 050 or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed for students who need to complete an additional course in algebra before proceeding to a college level transferable course. The course is a study of systems of linear equations in more than two variables, radical and rational expressions, and equations, complex absolute value equations and inequalities, relations and functions, synthetic division, graphs of functions, exponential and logarithmic expressions and their applications, as well as complex numbers.
4 Units
72 Lecture hours

MATH 073
Preparation for Intermediate Algebra
Prerequisite: MATH 050 or MATH 053 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed for students who need to complete an additional course in algebra before proceeding to a college level transferable course. The course is a study of systems of linear equations in more than two variables, radical and rational expressions, and equations, complex absolute value equations and inequalities, relations and functions, synthetic division, graphs of functions, exponential and logarithmic expressions and their applications, as well as complex numbers.
4 Units
72 Lecture hours
MATH 141 Mathematics for Elementary Teachers
Prerequisite: MATH 060 and MATH 140 with a grade of “C” or better
Transfers to: CSU
MATH 141 is a continuation of MATH 140. Topics include probability, statistics, informal geometry in two and three dimensions, coordinate geometry, measurement, similarity, tessellations, constructions, and an introduction to Euclidean geometry. Manipulatives and appropriate technology are used as tools for exploration and problem solving. This course is intended for elementary education majors planning to teach in elementary or middle schools.
4 Units
72 Lecture hours

MATH 160 College Algebra
Prerequisite: MATH 070 or MATH 070D or MATH 073 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit *), CSU (*Students will receive credit from UC for only one of the following courses: MATH 160 or MATH 165 or MATH 180)
This course will cover linear, quadratic, polynomial, power, exponential, and logarithmic functions and their applications from a graphical, numerical, and analytical point of view. The course also will cover systems of equations and inequalities and sequences and series. The course serves as preparation for students planning to take Elements of Calculus (MATH 170). Graphing technology will be required.
4 Units
72 Lecture hours

MATH 170 Elements of Calculus
Prerequisite: MATH 160 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 101; READ 101
Transfers to: UC (credit limit *), CSU (*Students will receive credit from UC 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, derivatives and integrals of polynomials, exponential and logarithmic functions, applications of derivatives and integrals, multi-variable derivatives and differential equations.
4 Units
72 Lecture hours

MATH 175 Plane Trigonometry
Prerequisite: MATH 060 and MATH 140 or MATH 070 or MATH 070D or MATH 073 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who are majoring in math, science, and engineering. This course equips students with the skills necessary for success in pre-calculus. It presents the concepts of plane trigonometry using a functions approach. Included is a study of basic relations, functions, and transformations, as well as circular functions, trigonometric functions of angles, identities, inverse functions and their equations and solutions of triangles.
3 Units
72 Lecture hours

MATH 180 (C-ID MATH 155) Pre-Calculus
Prerequisite: MATH 175 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 101 or appropriate assessment
Transfers to: UC (credit limit *), CSU (*Students will receive credit from UC for only one of the following courses: MATH 160 or MATH 165 or MATH 180)
This course is designed to prepare students for the study of calculus. It presents a comprehensive study of linear, quadratic, polynomial, exponential, logarithmic, rational, and trigonometric functions. Inequalities, introductory analytical geometry, polar coordinates, polar equations and their graphs, DeMoivre’s Theorem and an introduction to sequences are also included. This course is a prerequisite for MATH 190.
4 Units
72 Lecture hours

MATH 190 (C-ID MATH 210, 900S) Calculus I
Prerequisite: MATH 180 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 101 with a grade of “C” or better or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit *), CSU (*Students will receive credit from UC 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.
4 Units
90 Lecture hours

MATH 191 (C-ID MATH 900S) Calculus II
Prerequisite: MATH 190 or MATH 190H with a grade of “C” or better or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 101 or appropriate assessment
Transfers to: UC, CSU
MATH 191 is a semester course which continues the study of calculus begun in MATH 190. The course includes techniques of integration, improper integrals, anti-derivatives, application of the definite integral, differential equations, Taylor polynomials, series, vectors, the dot product and the cross product. This course is the second course of the calculus sequence required of engineering, physics, and mathematics majors.
4 Units
90 Lecture hours

MATH 250 (C-ID MATH 230) Calculus III
Prerequisite: MATH 191 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 101 or appropriate assessment
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. Included is a study of solid regions using partial differentiation, vector analysis, and multiple integration.
MATH 260 (C-ID MATH 250)
Linear Algebra
Prerequisite: MATH 191 with a grade of “C” or better
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.
4 Units
72 Lecture hours

MATH 270 (C-ID MATH 240)
Differential Equations
Prerequisite: MATH 250 with a grade of “C” or better
Transfers to: UC, CSU
This course is a study of ordinary differential equations with applications in the physical and social sciences. The course includes a study of linear and nonlinear first-order differential equations, linear higher order differential equations, systems of differential equations, power series solution of differential equations, and Laplace transforms. This course is a continuation of MATH 190, MATH 191, and MATH 250 and is required for all Engineering, Physics, and Mathematics majors.
4 Units
72 Lecture hours

MATH 299
Directed Study: Mathematics
Transfers to: UC, 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.
1 to 3 Units
54 to 216 Lab hours

MUSIC
Division of Arts & Cultural Programs

MUS 101
Fundamentals of Music
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student interested in the fundamentals of music theory. Included in this class will be a study of basic notation, rhythm reading, major and minor scale construction, simple musical analysis and basic chord construction.
3 Units
54 Lecture hours

MUS 103
Music Theory I
Prerequisite: MUS 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wants to study the basic materials of harmony and musicianship: scales, keys, intervals, chords, chord connections, part writing, and inversions. Also included are ear training, melodic and harmonic dictation, and harmonic analysis. Required of all music majors.
3 Units
54 Lecture hours

MUS 104
Music Theory II
Prerequisite: MUS 103 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wants to study the harmonic practices of the eighteenth and nineteenth centuries. Advanced stages of chromaticism, which includes tonization, modulation, modal mixture, and sequential movement both tonal and real, will be incorporated into the harmonic study. Techniques and orchestration of instruments are studied and applied to melodic and motivic construction in a formal compositional context.
3 Units
54 Lecture hours

MUS 105
Music Theory III
Prerequisite: MUS 104 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wants to continue the study of theory and the advanced techniques of realizing figured bass in 18th and 19th century harmonic practices. Those techniques will include numerology for advanced diatonicism, advanced chromaticism, modal mixture, real and tonal sequences, and advanced modulation.
3 Units
54 Lecture hours

MUS 106
Beginning Musicianship I
Prerequisite: MUS 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wants to develop beginning aural skills, sight-reading, sight-singing and rhythmic interpretation skills. It is recommended for all instrumentalists, singers and composers.
3 Units
54 Lecture hours

MUS 107
Beginning Musicianship II
Prerequisite: MUS 106
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This beginning level course is designed for the student who wants to continue developing aural skills, sight-reading, sight-singing and rhythmic interpretation skills. It is recommended for all instrumentalists, singers and composers.
3 Units
54 Lecture hours

MUS 110
College Community Orchestra
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 music written in the last two centuries. It is intended for the student who has completed the music theory sequence and who is interested in acquiring the rudiments of sight-reading and interpretation.
MUS 116
Music Ensemble for Diverse Instruments I
Transfers to: UC, CSU

This course is designed for the electric and acoustic instrumental student, the vocal student, and the novice to perform together in one ensemble. The ensemble content, which will depend upon the instrumental and vocal makeup of the class, will include a diversity of approaches that might include Latin, Asian, Popular and contemporary Classical Music.

2.5 Units
27 Lecture hours
54 Lab hours

MUS 117
Music Ensemble for Diverse Instruments II
Prerequisite: MUS 116
Transfers to: UC, CSU

This course is designed for the intermediate electric, acoustic instrumental and vocal students to perform together in one ensemble. The ensemble content, which will depend upon the instrumental and vocal makeup of the class, will include a diversity of approaches that might include Latin, Asian, Popular and contemporary Classical Music.

2.5 Units
27 Lecture hours
54 Lab hours

MUS 119
Advanced College Community Orchestra
Prerequisite: MUS 110
Transfers to: 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 as well as participate in ensemble playing. Students are expected to provide their own instruments. This course may be taken once and repeated three times for credit.

1 Unit
54 Lab hours

MUS 120
Vocal Arts Ensemble I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU

This course is designed for the student who seeks an opportunity to perform in a 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.

2 Units
27 Lecture hours
27 Lab hours

MUS 129
Music in Latin American Culture
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 and the Caribbean. Emphasis will be placed on rhythmic styles and structures, as well as, specific social, cultural, and historical backgrounds.

3 Units
54 Lecture hours

MUS 130
Music History and Literature Before 1750
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

This course is designed for the student who seeks an introduction to the major composers and musical movements from antiquity to the 1700’s. The course focuses on learning, reasoning, and writing about 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.

3 Units
54 Lecture hours

MUS 131
Music History and Literature After 1750
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

This course is designed for the student who seeks an introduction to the major composers and musical movements from 1750 to the present. The course focuses on learning, reasoning, and writing about 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.

3 Units
54 Lecture hours

MUS 132
History of Rock and Roll
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.

3 Units
54 Lecture hours

MUS 133 (C-ID MUS 100)
Music Appreciation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
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. Types of music to be covered will include Classical, Jazz, Rock, Blues and World Music. This course is targeted for students seeking to fulfill the general education requirement in the arts.

3 Units
54 Lecture hours

MUS 134
Rio Hondo College Singers I
Prerequisite: MUS 120 and audition
Advisory: ENGL 035 or ENLA 100 and appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course is designed for students who seek to broaden their understanding of choral literature by performing increasingly difficult choral works. Attention is given to the refinement and polishing of technique through rehearsal and performance of choral music from various musical periods and styles. Enrollment criteria include an audition.

2 Units
18 Lecture hours
54 Lab hours
MUS 135
Music in Film
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

MUS 136
History of Jazz
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

MUS 138
Masterworks Chorale
Prerequisite: Audition
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: UC, CSU
This advanced level course is designed for students who seek to broaden their understanding of choral literature by performing difficult choral works such as the B minor Mass by Bach, Elijah by Mendelssohn, or Messiah by Handel accompanied by orchestra or other instrumental ensemble. Attention is given to the refinement and polishing of technique through rehearsal and performance of choral music from various musical periods and styles. Public Performance is required. Enrollment criteria require an audition.
2 Units
27 Lecture hours
27 Lab hours

MUS 139
Advanced Vocal Ensemble I
Prerequisite: MUS 220 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the more advanced vocal student who seeks an opportunity to perform in a vocal ensemble. The repertoire will include a diversity of approaches that might include Latin, Asian, popular, contemporary, and classical music.
2 Units
27 Lecture hours
27 Lab hours

MUS 140
Beginning Voice I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students who wish to learn the foundation skills of singing including breath support, posture, intonation, enunciation, and stage presence. Students will prepare songs appropriate for the beginning skill level. No previous musical experience is necessary.
1.5 Units
18 Lecture hours
27 Lab hours

MUS 142
Intermediate Voice I
Prerequisite: MUS 140 with grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students who wish to further develop the techniques acquired in Beginning Voice. A comprehensive study of style and artistic interpretation will be included.
1.5 Units
18 Lecture hours
27 Lab hours

MUS 144
Beginning Piano II
Advisory: MUS 147 with a “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students seeking to broaden their knowledge and understanding of piano literature. Varied works of intermediate difficulty will be introduced. Attention is given to the refinement and polishing of technique through scales, arpeggios, sight-reading, interpretation and tone production.
1.5 Units
18 Lecture hours
27 Lab hours
MUS 151
Intermediate Guitar
Prerequisite: MUS 150
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This intermediate level course is designed for students who seek to broaden their understanding of guitar literature by performing moderately difficult works. Attention is given to the refinement and polishing of technique through scales, arpeggios, sight-reading, interpretation and tone production.
1.5 Units
18 Lecture hours
27 Lab hours

MUS 154
Guitar Ensemble
Prerequisite: Must have completed at least one semester of guitar
Transfers to: UC, CSU
This course will offer the opportunity for guitarists, electric or acoustic, to perform together in an ensemble. The ensemble content will depend upon the makeup of the class and will include a diversity of approaches that might include Latin, Asian, Popular and Classical Music. Recommended for guitarist whether they be music majors or not.
2 Units
27 Lecture hours
27 Lab hours

MUS 156
Intermediate Musicianship I
Prerequisite: MUS 107
Transfers to: UC, CSU
This course is designed for the student who wants to further develop aural skills, sight-reading, sight-singing and rhythmic interpretation skills beyond the beginning level. It is recommended for all instrumentalists, singers and composers.
3 Units
54 Lecture hours

MUS 157
Intermediate Musicianship II
Prerequisite: MUS 156
Transfers to: UC, CSU
This course is designed for the student who wants to further develop aural skills, sight-reading, sight-singing and rhythmic interpretation skills beyond the introductory intermediate level. It is recommended for all instrumentalists, singers and composers.
3 Units
54 Lecture hours

MUS 158
Masterworks Chorale II
Prerequisite: MUS 138 and Audition
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
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 require successful completion of MUS 138 and an audition.
2 Units
27 Lecture hours
27 Lab hours

MUS 165
Electronic Music I
Corequisite: MUS 180
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for the student who wants to learn the basic elements involved in electronic music including: fundamental elements of music, keyboard electronics, signal processing, virtual synthesis which may include Sylenth, Crystal, and Gladiator, MIDI, simple computer software which may include Garaje Band, and digital recording. Creating electronic compositions will also be covered. Students should take Music 180 concurrently. This course is recommended for all students who intend to pursue music professionally.
3 Units
36 Lecture hours
54 Lab hours

MUS 167
Electronic Music II
Prerequisite: MUS 165 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for the student who wants to continue the study of concepts and techniques needed to compose electronic music and is recommended for students who intend to pursue music professionally. Various types of synthesis including software analog synthesis and virtual analogue synthesis will be studied. Software that will be used in the course may include Reason and Logic Pro. Sequencing, recording via studio software, notating compositions and creating music for dance and theatre on the computer will be the primary focus of the course.
2 Units
27 Lecture hours
27 Lab hours

MUS 168
Electronic Music III
Prerequisite: MUS 167
Transfers to: CSU
This course is designed for the advanced electronic music student who wants to continue the study of concepts and techniques needed to compose electronic music and is recommended for students who intend to pursue music professionally. Assignments in the course will include scoring music to stop-time animation and motion picture scenes available on the internet. Advanced notation techniques including full score and individual parts will also be covered.
3 Units
36 Lecture hours
54 Lab hours

MUS 178
Masterworks Chorale III
Prerequisite: MUS 158 and Audition
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
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 Bach sacred and secular cantatas, Mozart and Haydn masses, renaissance madrigals and sacred pieces, and contemporary choral works accompanied by orchestra or other instrumental ensemble, or sung accappella. 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 require successful completion of MUS 158 and an audition.
3 Units
36 Lecture hours
54 Lab hours

MUS 180
Music Laboratory
Corequisite: MUS 165 or 167
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed to provide students enrolled in electronic music courses with supervised study or practice.
1 Unit
54 Lab hours
This course is designed for the intermediate vocal student who seeks an opportunity to perform in a vocal ensemble. Participation in public performance is required. The repertoire will include a diversity of sections including intermediate level classical choral literature, world music, popular and contemporary music. Successful completion of MUS 120 is required to enroll.

2 Units
27 Lecture hours
27 Lab hours

**MUS 234**
**Rio Hondo College Singers II**
**Prerequisite:** MUS 134
**Advisory:** ENGL 030 or ENLA 034 and appropriate assessment
**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. Enrollment criteria include an audition and successful completion of MUS 134.

2 Units
18 Lecture hours
54 Lab hours

**MUS 240**
**Advanced Voice I**
**Prerequisite:** MUS 142 with a grade of "C" or better
**Advisory:** READ 023 or appropriate assessment
This course is designed for students interested in further developing the interpretive and technical demands inherent in advanced vocal performance. Attention is given to a detailed study and analysis of vocal technique and interpretation. Public performance will be required.

2 Units
27 Lecture hours
27 Lab hours

**MUS 245**
**Advanced Piano**
**Prerequisite:** MUS 148 with a grade of "C" or better
**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.

2 Units
27 Lecture hours
27 Lab hours

**MUS 251**
**Advanced Guitar I**
**Prerequisite:** MUS 151 with a grade of "C" or better
**Advisory:** ENGL 035 or ENLA 100 or appropriate assessment
**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.

2 Units
27 Lecture hours
27 Lab hours

**MUS 252**
**Advanced Guitar II**
**Prerequisite:** MUS 251
**Advisory:** ENGL 035 or ENLA 100 or appropriate assessment
**Transfers to:** 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.

2 Units
27 Lecture hours
27 Lab hours

**MUS 290**
**Cooperative Work Experience/Internship for Music Related Fields**
**Advisory:** ENGL 035 or ENLA 100 or appropriate assessment
**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. 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 music 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

1 to 4 Units
3 Lecture hours
60 to 300 Lab hours

MUS 299
Directed Study: Music

Transfers to: UC, 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.

1 to 3 Units
54 to 216 Lab hours

OPERATING ENGINEERS

Division of Career & Technical Education

OENG 001
Introduction to Apprenticeship

Prerequisite: Registration as a State Indentured Apprentice

This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: making yourself valuable, safety, first aid, the cost of accidents, industry terminology, setting up a string line, standard industry hand signals, labor unions and learning to operate heavy equipment.

2 Units
36 Lecture hours
36 Lab hours

OENG 002
Grade Checking

Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: safety consciousness, layout and staking methods for subdivisions, streets, buildings, underground structure excavation, right angle triangles, and curve radii.

2 Units
36 Lecture hours
36 Lab hours

OENG 003
Equipment Operator

Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: preventive maintenance of heavy equipment, operation of heavy equipment and political science.

2 Units
36 Lecture hours
36 Lab hours

OENG 004
Plan Reading

Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: reading and interpreting grading plans for highways, streets and subdivisions.

2 Units
36 Lecture hours
36 Lab hours

OENG 005
Skills Specialization

Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: the labor movement in the United States, relationship of politics to construction work, preventive maintenance, and the operation of heavy equipment.

2 Units
36 Lecture hours
36 Lab hours

OENG 012
Heavy Duty Repairman

Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: the safe use oxyacetylene cutting equipment, the technique of brazing, and electric arc welding.

2 Units
36 Lecture hours
36 Lab hours

OENG 013
Heavy Duty Repairman

Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: the principles of hydraulics, how a hydraulic system works and the practical uses of hydraulics.

2 Units
36 Lecture hours
36 Lab hours

OENG 014
Heavy Duty Repairman

Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or
This course is designed to meet the needs of State Indentured Apprentices employed full-time in the operating engineer field. Topics covered include: diagnosis, service and repair of hydraulic valves, motors, pumps and cylinders; diagnosis and repair of variable speed hydraulic drives; service and maintenance of pneumatic systems used on heavy equipment and heavy trucks.

2 Units
36 Lecture hours
36 Lab hours

OENG 022
Structural Masonry Inspection
Prerequisite: State Indentured Apprentice in the Operating Engineers Trust Apprenticeship Program
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

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 Engineers Inspectors. Topics include industry safety, industry terminology, masonry inspection testing, blueprint reading, field interpretation, and successful completion of the industry standard certification examination.

4 Units
54 Lecture hours
54 Lab hours

OENG 023
Reinforced Concrete Inspection
Prerequisite: Must be an Indentured Apprentice in the Operating Engineers State Apprenticeship Program
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

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 Engineers Inspectors. Topics include industry safety, applications of reinforced concrete structure, sample testing, industry terminology, reinforced concrete inspection testing, blueprint reading, field interpretation, and successful completion of the industry standard certification examination.

4 Units
54 Lecture hours
54 Lab hours

OENG 024
Structural Steel/Welding Inspection
Prerequisite: Must be an Indentured Apprentice for the State of California in the Operating Engineers Training Trust Apprenticeship Program
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

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 Engineers Inspectors. 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.

4 Units
54 Lecture hours
54 Lab hours

OENG 025
Prestressed Concrete Inspector
Prerequisite: Indentured Apprentice for the State of California in the Operating Engineers Training Program
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

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 Engineers Inspectors. Topics include industry safety, industry terminology, prestressed concrete inspection, blueprint reading, field interpretation, and successful completion of the industry standard certification examination.

4 Units
54 Lecture hours
54 Lab hours

OENG 026
Soil Testing and Inspection
Prerequisite: Must be an Indentured Apprentice in the Operating Engineers Apprenticeship Program in the classification of Special Inspection
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

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 Engineers Inspectors. 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.

4 Units
54 Lecture hours
54 Lab hours
PHILOSOPHY
Division of Behavioral & Social Sciences

PHIL 101 (C-ID PHIL 100)
Introduction to Philosophy
Advisory: ENGL 101 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course introduces philosophical ideas and methods concerning knowledge, reality and values. Expected topics will 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, or mind. This course is appropriate for anyone seeking a broader program of philosophical study, or to fulfill general Humanities or Philosophy major requirements.
3 Units
54 Lecture hours

PHIL 101H (C-ID PHIL 100)
Introduction to Philosophy Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course introduces philosophical ideas and methods concerning knowledge, reality and values. Expected topics will 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, or mind. This course is intended for those who meet Honors Program requirements.
3 Units
54 Lecture hours

PHIL 110
Critical Thinking
Prerequisite: ENGL 101 or appropriate assessment
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
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, informal fallacies, and others. Emphasis on the application of critical thinking for effective writing will be reflected in the frequency, scope, and nature of course writing assignments, which will be evaluated with regard to both content and form. Students should expect to write approximately 8000 words in various writing assignments. This course is appropriate for students seeking to improve their writing and reasoning skills.
3 Units
54 Lecture hours

PHIL 115
Symbolic Logic
Advisory: READ 023 or appropriate assessment; PHIL 101 or PHIL 101H; PHIL 112
Transfers to: CSU
This course is intended for students interested in symbolic methods of deductive reasoning including philosophy and mathematics majors. Students taking this course will develop an understanding of both sentential logic and predicate logic. Students will 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.
3 Units
54 Lecture hours

PHIL 112 (C-ID PHIL 110)
Introduction to Logic
Advisory: ENGL 105 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Transfers to: UC, CSU
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 of mathematics, business, computer science, science, engineering, law, and humanities.
3 Units
54 Lecture hours

PHIL 119
Introduction to Ethics
Advisory: ENGL 101 or appropriate assessment
Transfers to: UC, CSU
This introductory level course is intended for all students interested in the Modern period of Western Philosophy (16th through 18th Century). We emphasize broad epistemological and metaphysical developments through close analysis of primary texts. Philosophers to be studied will include Descartes and other Rationalists, Hume and other Empiricists, and Kant.
3 Units
54 Lecture hours

PHIL 120 (C-ID PHIL 120)
Introduction to Ethics
Advisory: ENGL 101 or appropriate assessment; READ 023 or appropriate assessment
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, justice, and the nature of the good. This course introduces the methods and techniques of informal reasoning. Topics include schematizing and articulating arguments, causal arguments, analogical arguments, testimony arguments, informal fallacies, and others. Emphasis on the application of critical thinking for effective writing will be reflected in the frequency, scope, and nature of course writing assignments, which will be evaluated with regard to both
3 Units
54 Lecture hours

PHIL 122 (C-ID PHIL 121)
History of Philosophy: Ancient
Advisory: ENGL 101 or appropriate assessment; READ 103 or appropriate assessment
Transfers to: UC, CSU
This introductory level course is for those interested specifically in the earliest stages of Ancient Western philosophy. We address the development of Greek philosophy from the Pre-Socratics through Aristotle. We may also include Hellenistic, Roman, medieval or non-western thinkers. Beyond a study of the figures and key ideas, we will discuss the early view of philosophy as a “way of life,” and consider how these movements were intended to transform the lives of those who followed them.
3 Units
54 Lecture hours

PHIL 125
Introduction to Political Philosophy
Advisory: ENGL 101 or appropriate assessment
Transfers to: UC, CSU
This introductory level course is intended for students interested in political science, philosophy and law. This course introduces the history and development of political thought, and will consider the justification of the State, Libertarianism, Socialism, and Communism, as well as conceptions of rights and distributions of goods.
3 Units
54 Lecture hours

PHIL 126 (C-ID PHIL 140)
History of Philosophy: Modern
Advisory: ENGL 101 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This introductory level course is intended for students interested in the relationship between political systems and philosophy. It is especially relevant for students interested in political science, philosophy and law. This course introduces the history and development of political thought, and will consider the justification of the State, Libertarianism, Socialism, and Communism, as well as conceptions of rights and distributions of goods.
3 Units
54 Lecture hours

PHIL 127
History of Philosophy: Contemporary
Advisory: ENGL 101 or appropriate assessment
Transfers to: UC, CSU
This introductory level course is intended for students interested in the relationship between political systems and philosophy. It is especially relevant for students interested in political science, philosophy and law. This course introduces the history and development of political thought, and will consider the justification of the State, Libertarianism, Socialism, and Communism, as well as conceptions of rights and distributions of goods.
3 Units
54 Lecture hours

PHIL 135
Philosophy and Contemporary Issues
Advisory: ENGL 101 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This introductory course explores the philosophical aspects of a variety of issues of contemporary interest. This

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PHIL 299
Directed Study: Philosophy

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.

1 to 3 Units
54 to 216 Lab hours

PHOTOGRAPHY
Division of Arts & Cultural Programs

PHTO 185
Introduction to Digital Photography

Prerequisite: PHTO 185 or PHTO 190
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This introductory course covers basic technical and conceptual skills in digital photography, including digital camera use, principles of photographic composition, digital image editing, and digital printing. This course is designed for non-photography majors interested in gaining experience with digital photography. Students are required to supply their own digital camera.
3 Units
36 Lecture hours
72 Lab hours

PHTO 190
Beginning Photography

Prerequisite: PHTO 185 or PHTO 190
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course is designed for students who wish 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.
3 Units
36 Lecture hours
72 Lab hours

PHTO 191
Intermediate Photography

Prerequisite: PHTO 190
Advisory: READ 023 or appropriate assessment

This course is designed for students who have successfully completed beginning photography and wish to study more advanced technical and conceptual approaches to contemporary black and white photography in a 35mm 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 35mm camera with manual controls.
3 Units
36 Lecture hours
72 Lab hours

PHTO 299
Directed Study: Photography

Transfers to: UC, 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 in the discipline of study being requested, or receive an exception from the instructor. 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.

1 to 3 Units
54 to 216 Lab hours
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.

1 to 3 Units  54 to 216 Lab hours

PHYS 101  Physics and Chemistry for Teachers  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment  
Transfers to: CSU  
Designed for the future elementary school teacher, this laboratory science course introduces students to the fundamentals of physics and chemistry including properties of the states of matter, physical and chemical changes, solutions and mixtures, motion, forces, energy and light.  
4 Units  54 Lecture hours  54 Lab hours

PHYS 102  Earth and Space Sciences for Teachers  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 050D or MATH 053 or appropriate assessment  
Transfers to: CSU  
Designed for the future elementary school teacher, this laboratory science course introduces students to the fundamentals of earth and space sciences including the universe, the solar system, the structure and composition of the Earth, the Earth’s atmosphere, and the Earth’s water.  
4 Units  54 Lecture hours  54 Lab hours

PHYS 120  Physics for Everyday Use  
Prerequisite: MATH 050 or MATH 050D or MATH 053 with a grade of “C” or better or appropriate assessment  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: UIC (credit limit*), CSU  (*Students will receive no credit from UC 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. Examples from popular culture (movies, TV, and sports) are emphasized. Topics include how to describe an object’s motion, how to explain changes in an object’s motion, the roles of work and energy, and other topics. The course is oriented to the non-science major, stresses conceptual understanding, and is intended to present students with an opportunity to see how our world works.  
4 Units  54 Lecture hours  54 Lab hours

PHYS 150  General Physics - I  
Prerequisite: MATH 175 with a grade of “C” or better or appropriate assessment  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: UIC (credit limit*), CSU  (*Students will receive credit from UC 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 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. Students majoring in the biological sciences should consult a counselor as to whether this course satisfies the general preparation requirements for the major at the university. Topics include thermodynamics, electricity and magnetism, oscillations, waves, optics and quantum physics.  
4 Units  54 Lecture hours  54 Lab hours

PHYS 160  General Physics - II  
Prerequisite: PHY 150 with a grade of “C” or better  
Transfers to: UIC (credit limit*), CSU  (*Students will receive credit from UC 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 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. Students majoring in the biological sciences should consult a counselor as to whether this course satisfies the general preparation requirements for the major at the university. Topics include thermodynamics, electricity and magnetism, oscillations, waves, optics and quantum physics.  
4 Units  54 Lecture hours  54 Lab hours

PHYS 211 (C-ID PHYS 200S, PHYS 205)  Physics for Scientists and Engineers - I  
Prerequisite/Corequisite: MATH 190 or MATH 190H  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: UIC (credit limit*), CSU  (*Students will receive credit from UC 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 and is designed for students transferring to a four-year institution with majors in the sciences and engineering. Topics covered are kinematics, dynamics, energy, work, momentum, and conservation principles.  
4 Units  54 Lecture hours  54 Lab hours

PHYS 212 (C-ID PHYS 200S, PHYS 215)  Physics for Scientists and Engineers - II  
Prerequisite: PHY 211 with a grade of “C” or better  
Corequisite/Prerequisite: MATH 191  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: UIC (credit limit*), CSU  (*Students will receive credit from UC 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 and is designed for students transferring to a four-year institution with majors in the
PHY 213 (C-ID PHYS 200S, PHYS 210)  
Physics for Scientists and Engineers - III  
Prerequisite: PHY 212 with a grade of “C” or better  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for one physics series: PHY 150 and PHY 160 or PHY 211, PHY 212, and PHY 213)  
This course is the third of a three-semester sequence and is designed for students transferring to a four-year institution with majors in the sciences and engineering. Topics covered are electric fields, electric potential, current, circuits, magnetic fields, Gauss’ law, Ampere’s law, Maxwell’s equations, induction, and electromagnetic waves.  
4 Units  
54 Lecture hours  
54 Lab hours

PHY 299  
Directed Study: Physics  
Transfers to: UC, 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 and/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.  
1 to 3 Units  
54 to 216 Lab hours

POLICE ACADEMY  
Division of Public Safety

PAC 040  
Basic Police Recruit Class  
Prerequisite: Medical clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets are exempt)  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 4348L  
This is a fundamental course which covers criminal law, evidence, procedure and investigation, firearms, first aid, defense tactics, use of chemical agents and other related police subjects. This course meets the educational requirement for basic certification by the Commission on Peace Officer Standards and Training (P.O.S.T.).  
24 Units  
772 Lecture hours  
163 Lab hours

PAC 042  
Police Supervision  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; PAC 040 or PAC 075B, 075C, 075D  
This course is designed to explain and apply the elements of supervision oriented to law enforcement personnel. Methods of effective leadership, motivation, communications and techniques of training are presented. This course is certified by the Commission on Peace Officer Standards and Training (POST) for 80 hours/8 hours per day for 10 days.  
1 Unit  
80 Lecture hours

PAC 043  
Advanced Officers Course  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; PAC 040 or PAC 075B, 075C  
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. This description applies to all PAC 043 series courses.  
0.07 to 1.48 Units  
2 to 40 Lecture hours  
2 to 40 Lab hours

PAC 071  
Public Safety Dispatcher Basic Course  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040  
This course meets the POST (California Commission on Peace Officer Standards Training) requirements for the position of public safety dispatcher. The content of this course is a combination of the following topics: 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.  
7 Units  
126 Lecture hours

PAC 072  
Records Supervisor  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040  
This course is designed to expose records supervisors and managers to the various aspects of their assignment. They will learn procedures for minimizing civil liability, new laws and case decisions affecting records maintenance, management strategies for dealing with personnel issues and techniques for improving supervisory skills.  
0.5 Units  
40 Lecture hours

PAC 073  
Basic Police Records Course  
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040  
This course provides police records personnel with the basic skills and knowledge necessary to effectively meet the demands of their specific assignment. The course is certified by the California Commission on Peace Officer Standards and Training.  
0.5 Units  
40 Lecture hours

PAC 075B  
Basic Course-Module III (Ext)  
Prerequisite: Medical clearance, California Department of Justice clearance for firearms training, passing scores on POST written and physical tests (agency sponsored cadets are exempt).  
Advisory: ENGL 035 or ENLA 100 or
PAC 075C Basic Course - Module II (Ext)
Prerequisite: Successful completion of PAC 075B or POST Module III, current (within last 3 years) in PC 832 Arrest and Firearms training requirements, passage of the POST-constructed Comprehensive Module III End-of-Course Proficiency Test within the preceding 12 months, medical clearance, Department of Justice clearance for firearms training
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
8 Units
72 Lecture hours
112 Lab hours

PAC 076 Driver Awareness Instructor
Prerequisite: Successful completion of a basic police academy
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to develop instructors for Driver Training Awareness courses for the training of police officers in defensive driving techniques. The student will develop a training program including the physical design for a training site. In addition the student will plan and present a lesson on an assigned topic, as well as utilize rating forms to evaluate performance on driving exercises.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 077 Driver Training Instructor
Prerequisite: Successful completion of a basic police academy
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed for those who will serve as instructors for the training of police officers in emergency vehicle operation techniques including collision avoidance, skid control, use of lights and sirens, and high speed pursuit driving. Students will learn how to develop a training program.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 078 Requalification - Basic Course
Prerequisite: Successful completion of a basic police academy and a California Department of Justice clearance for firearms training
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed for individuals who have completed a basic police recruit academy, but have not been active in the law enforcement field for at least three years. It 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.
3 Units
96 Lecture hours
40 Lab hours

PAC 079 Code Enforcement Officer, Basic Course
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to enhance the student’s communication and field investigation skills when working as a Code Enforcement Officer. The students will be introduced to the following specific code enforcement elements that will enable them to perform their duties: Ethics, Basic Inspection Protocols, Vehicle Abatement, Zoning Code, Substandard Housing, Drug Recognition and Gang Awareness, Abatement of Dangerous Buildings and Substandard Housing, Report Writing, Right of Entry and Inspection Warrants, Case Preparation for Administrative, Civil and Criminal Cases.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 080 Code Enforcement Officer, Advanced Course
Prerequisite: PAC 079
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to enhance the communication and field investigation skills of Code Enforcement Officers that are currently working in that capacity. The students will be introduced to the following specific code enforcement elements that will enable them to perform their duties: Legal Aspects, Introduction to Electrical, Mechanical, Plumbing, and Fire Codes, Vector Guidelines, Microbial Contamination for Substandard Housing and Resolving Neighborhood Problems via Problem Oriented Policing Techniques.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 081 Code Enforcement, Introduction to Supervision
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; PAC 079; PAC 080
This course is designed as a variable format (2-40 Hours Lecture, 2-40 Hours Lab) course for current Code Enforcement Officers or supervisors, new supervisors, or individuals who may desire to seek employment as a supervisor of Code Enforcement Offi-

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 082
Code Enforcement Officer, Intermediate Course
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment
This course is designed to enhance the communication and field investigation skills of Code Enforcement Officers that are currently working in that capacity. The students will be introduced to the following code enforcement elements that will enable them to perform their duties: Tactical Communications, Use of Pepper Spray, Basic Courtroom and Administrative Hearing Procedures, Problem Oriented Policing, Communication and Coordination Techniques, and Animal Awareness, including Animal Abuse and Animal Cruelty.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 083
Pre-Academy Physical Fitness
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment
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 followed by the California Commission on Peace Officer Standards and Training.

0.296 to 1.48 Units
8 to 40 Lecture hours
8 to 40 Lab hours

PAC 43001
Advanced Officer Development
Prerequisite: Completion of basic peace officer training or equivalent
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to keep senior peace officers informed as to the latest innovations in enforcement techniques and concepts which include but are not limited to information sharing; problem oriented policing models, and discretionary decision making. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43003
Community Relations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new community relations issues as well as federal and state changes and recent requirements which effect current law enforcement procedures. Community relations for officer development present new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43007
Professional Standards
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Ethical and Professional Standards issues along with Federal and State Law changes and recent requirements which effect current law enforcement procedures, and new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43011
Juvenile Law and Procedures
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
Juvenile Law and Procedures for Officer Development presents new concepts in the law enforcement procedures. This course is designed to keep peace officers informed of current Federal and State Juvenile Law changes and recent requirements which affect current law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43015
Laws of Arrest
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Federal and State Arrest Law changes and recent requirements which affect current law enforcement procedures. Laws of Arrest for Officer Development present new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43016
Search and Seizure
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Federal and State Search and Seizure changes and recent requirements which affect current law enforcement procedures. Search and Seizure 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.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43017
Presentation of Evidence
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to provide the student with the necessary information and skills needed to observe the rules of evidence as they pertain to relevancy, types of evidence, authentication and chain of custody. This course will provide the student with the necessary information and skills needed to function as a police officer.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43018
Investigative Report Writing
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of current Federal and State Investigative Report Writing laws and recent requirements which affect current law enforcement procedures. Investigative Report Writing 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.

PAC 43019 Vehicle Operations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new vehicle operations procedures affected by Federal and State changes and recent requirements which affect current law enforcement procedures. Vehicle Operations 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.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43020 Use of Force
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of current Use of Force, Federal and State laws and recent requirements which affect current law enforcement procedures of the Use of Force for Officer Development and new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43024 Handling Disputes
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new techniques for handling disputes, Federal and State changes and recent requirements which affect current law enforcement procedures. Handling disputes 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.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43026 Unusual Occurrences
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Unusual Occurrences Procedures, new Federal and State changes and recent requirements which affect current law enforcement procedures. Unusual Occurrences 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.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43030 Preliminary Investigation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment;
Preliminary Investigation for officer development presents new concepts in law enforcement procedures. This course is designed to keep peace officers informed of new investigative techniques, current Federal and State laws and recent requirements which affect current law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43038 Gang Awareness
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Gang Awareness information, current Federal and State laws and recent requirements which affect law enforcement procedures. Gang Awareness for Peace 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.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43034 Advanced Officer Training, District Attorney
This course is designed to meet P.O.S.T. requirements for advanced officer training for District Attorney's investigators. The content shall be devoted to a combination of the following subjects: new laws; recent court decisions and/or search and seizure refresher; officer survival techniques; new concepts; procedures; technology; and discretionary decision making.

0.148 to 0.741 Units
8 to 40 Lecture hours
PAC 43040
Weapons Violations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Weapons Violations laws, current Federal and State laws and recent requirements which affect current law enforcement procedures. Weapons Violations 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. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43041
Hazardous Materials
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Hazardous Materials techniques, new Federal and State changes and recent requirements which affect current law enforcement procedures. Hazardous Materials 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. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43043
Impact Weapons
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new Impact Weapons instruction, current Federal and State laws and recent requirements which affect current law enforcement procedures. Impact Weapons 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. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43049
First Aid/CPR
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43055
Emergency Planning
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep peace officers informed of new areas of emergency planning training, current Federal and State laws and recent requirements which affect current law enforcement procedures. Emergency Planning for officer development presents new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by California Commission on Peace Officer Standards and Training. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43060
Security Basic Course
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep any officer and/or interested students informed of new security basic instruction, current Federal and State laws and recent requirements which affect current law enforcement procedures. Security Basic Course presents new concepts in security procedures. The curriculum follows that recommended for training by the California Commission on Peace Officer Standards and Training and Consumer Affairs. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43061
Supervisory Course for Security
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to keep officers and/or interested students informed of new supervisory instruction for security personnel, current Federal and State laws and recent requirements which affect current law enforcement procedures. Supervisory Course for Security presents new concepts in security procedures. The curriculum follows that recommended by the California Commission on Peace Officer Standards and Training and Consumer Affairs. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43065
Advance Security Officer Development
Prerequisite: PAC 43060
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to keep senior security officers informed as to the latest innovations in enforcement techniques and concepts which includes information sharing, problem oriented policing models and discretionary decision making. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training and the California Department of Consumer Affairs. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4308
Techniques of Teaching Spanish
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to acquaint the non-Spanish speaking public service employee with development of course, lessons, dialogue and vocabulary materials. Lesson preparation, aids, video tapes and narrative recordings will be used to assist the student in developing a practical knowledge of Spanish. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4311
Supervisory and Management Seminar
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; PAC 040 or PAC 075B, 075C, 075D
This course is designed to inform and update supervisors and managers in the public safety field. Classroom time will consist of lecture presentations, participation in simulation games, and the sharing of limited outside assignments. Students will have an opportunity to explore their own leadership styles, as well as the unique personality of the police officer. Students will also develop a better understanding of specific skills which will assist them in their roles. The course, while specifically designed for supervisors and managers, would also be of benefit to managers and personnel.
to individuals who are preparing for supervisory positions in the public safety field.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4313
Law Enforcement Instructors
Development Course
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed for law enforcement training officers and instructors. The student will gain knowledge of and the ability to organize the law enforcement training functions within the agency as demonstrated by a model which they will develop during the course. The student will develop the ability to prepare a training program including course outlines, lesson plans and audio-visual aids. This ability will be demonstrated by actual presentation of each of the above items. Students will gain the ability to make instructional presentations which they will demonstrate to the class during workshops.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4314
Field Training Officer Course
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4317
Crime Scene Investigation
Prerequisite: AJ 275
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 104; AJ 208
This course is designed to present a detailed study of the various investigative and scientific aspects of crime scene investigation. Emphasis will be placed on the collection, preservation, identification and packaging of evidence. Several field problems will be conducted to give the student practical experience in the proper methods of crime scene investigation.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4327
Advanced Latent Fingerprints
Prerequisite: PAC 4380
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 104; AJ 208; AJ 275
This course is designed for students interested in the field of fingerprint comparison, forensics and law enforcement. The course stresses advanced fingerprint identification techniques including the latest print development techniques using various powders, chemicals, and forensic light sources.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4328
Advanced Crime Scene Techniques
Prerequisite: AJ 208
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 104; AJ 275; PAC 4317
This course is designed for students interested in a career in the field of criminal justice and for crime scene investigation personnel. It presupposes a basic knowledge of the crime scene investigation process. Selected types of physical evidence will be examined in depth to include the recognition, collection, and forensic value of selected evidence types. An introduction to the criminalistics laboratory organization and function will be presented.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4330
Trial Preparation and Courtroom Demeanor
Prerequisite: AJ 104
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 208; AJ 275; PAC 4317; PAC 4328; PAC 4382
This course is designed for students interested in a career in the field of criminal justice, forensics and for crime scene personnel. The course will prepare students to give effective testimony in a court of law as related to recognizing, obtaining, developing and preserving physical evidence. The course will include courtroom demeanor, how to qualify as an expert witness, the study of direct and cross examination questions and participation in moot court training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4337
Rangemaster Instructor School
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This is a variable format (2-40 Hours of Instruction; 2-40 Hours of Lab) course designed to instruct the experienced officer with the operation and maintenance of a firing range. Teaching techniques and the use of revolvers, semiautomatic handguns, rifles, shotguns and fully automatic weapons will be emphasized.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4339
Tactics for Field Officers
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed for field officers to combat complacency or apathy that may have intruded into their behavior. It will reinforce their mental attitude, physical awareness and training that is needed in handling the situational complexities that officers are continually confronted with in the field. It is also designed to stimulate or renew their commitment to good personal practices encouraging safety and the professional delivery of service to the public.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4342
Weapons, Semi-Automatic Handguns
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed for personnel who are concerned with semiautomatic pistols as a police service arm. Overall course will encompass Colt .45 semiautomatic, Smith and Wesson models 39 and 59, Browning Hi-Power 9 millimeters, plus other uniform and off-duty semiautomatic pistols.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4343
Special Weapons Training
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is designed to familiarize both law enforcement and private security personnel with the latest types of firearms. Emphasis will be placed on the legal aspects of the use of firearms and the safe handling of various types of firearms.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours
PAC 4350
Crime Prevention Theory and Practice
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to acquaint law enforcement personnel with the latest theories and techniques of crime prevention through opportunity reduction. Emphasis will be placed on physical security devices and systems, community involvement in prevention programs, evaluation of crime trends and prevention techniques, development of prevention strategies and program materials, crime prevention and the community planning process, ordinances, zoning and environmental design. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4351
Industrial Security Powers to Arrest and Baton Training
This course is designed for students who are involved in private security. The contents presented will give an overview of the role of security guards, First Aid basics, Powers to Arrest and P.O.S.T. Certified Baton Training.
0.148 to 0.741 Units
8 to 40 Lecture hours

PAC 4352
Industrial Security Baton Powers to Arrest, Firearms
This course is designed for students who are involved in private security. The contents presented will qualify students for certification with the Department of Consumer Affairs in the areas of Powers to Arrest, Firearms and Baton.
0.167 to 0.75 Units
8 to 40 Lecture hours

PAC 4353
Industrial Security; Baton, Powers to Arrest, Chemical Agents
This course is designed for students who are involved in private security. The contents presented will qualify students for certification with the Department of Consumer Affairs in the areas of Powers to Arrest, Chemical Agents and Baton.
0.148 to 0.741 Units
8 to 40 Lecture hours

PAC 4355
Advanced Police Video/Photography
Prerequisite: PHTO 190
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 104; AJ 208; AJ 275
This course is designed for students interested in preparing for a career in the field of crime scene video, photography, forensics and law enforcement. The course introduces students to the advanced use of various video and photography techniques employed during a police investigation with special emphasis on documenting a crime scene and preparing evidence for use in a court of law.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4356
Radar Traffic Enforcement
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
Radar Traffic Enforcement course covers the legal issues involved, the nomenclature, concepts and practical operation of police speed control radar. This course is designed to provide the student with the necessary information and skills needed to function as a radar enforcement officer. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4362
Child Abuse Investigation
Advisory: PAC 040
This course is designed to provide the student with the necessary information and skills needed to function as a Child Abuse Investigator. Specifically, this course covers child abuse laws, recognition of abuse, victim treatment, interviewing and investigating techniques, inter-agency coordination and court involvement.
0.148 to 0.741 Units
8 to 40 Lecture hours

PAC 4365
Vice Investigation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to provide the student with the necessary information and skills needed to function as a vice investigator. Specifically, this course covers the legal issues, types of offenses and investigative techniques used in vice investigation. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4366
Basic Traffic Accident Investigation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to provide the student with the necessary information and skills to conduct basic traffic accident investigations. Specifically, this course covers the reporting investigation, cause determination and prosecution aspects of traffic accident investigation. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4367
Intermediate Traffic Accident Investigation
Prerequisite: PAC 4366
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 040
This course is designed to expand on the student’s basic understanding of traffic accident investigation and develop a working knowledge of the following subject areas: traffic engineering, point of impact determination, skid mark analysis, crime lab procedures and insurance fraud. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours
PAC 4376
PC 832 Arrest
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; 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 4377, PC 832 Firearms and/or PAC 4378, PC 832 Communications and Arrest Methods to satisfy varying agency requirements.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4377
PC 832 Firearms
Prerequisite: PAC 4376; 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. Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 4376, PC 832 Arrest and/or PAC 4378, PC 832 Communications and Arrest Methods to satisfy varying agency requirements.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4378
PC 832 Communications and Arrest Methods
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; PAC 4376
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 Methods course which covers community relations, communications, report writing, arrest control and personal searches. This course can be taken alone or in combination with PAC 4376, PC 832 Arrest and/or PAC 4377, 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. 0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4380
Fingerprint Classification
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 104; AJ 208; AJ 275
This course is designed for students interested in the field of fingerprint comparison, forensics and law enforcement. The course provides training in the study of the science of fingerprints. Topics include the ethics and professional conduct of fingerprint examiners, the historical development of fingerprint science, fingerprint pattern interpretation, the Henry System of fingerprint classification, the N.C.I.C. classification system, recording inked finger and palm prints, and the automated fingerprint identification system.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4381
Friction Skin Comparison
Prerequisite: PAC 4380
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 104; AJ 208; AJ 275
This course is designed for students interested in preparing for a career in the field of fingerprint comparisons, forensics and law enforcement. The course provides training in the area of friction skin comparison. Topics include the uniqueness of fingerprints, principles of comparison and individualization, type of ridge characteristics, identification protocols, and the conclusions a fingerprint examiner can reach.
0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 4382
Death Investigation
Prerequisite: PAC 4328
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 041; AJ 208; AJ 275; PAC 4317
This course is designed for students interested in a career in law enforcement and/or forensics. The course will present an advanced overview of techniques that are used and issues that surface during the initial investigation of the death of a human being. The course will also address the role of the Coroner’s office and their ability to scientifically investigate the cause and manner of any sudden, suspicious, or violent death.
0.5 Units
24 Lecture hours

POLITICAL SCIENCE
Division of Behavioral & Social Sciences

POLS 110
Government of the United States
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.
3 Units
54 Lecture hours

POLS 110H (C-ID POLS 110)
Government of the United States Honors
Prerequisite: ENGL 101 with a “C” or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.
3 Units
54 Lecture hours
POLS 120
California State and Local Governments
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: 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.
3 Units
54 Lecture hours

POLS 125
Law and Democracy
Prerequisite: POLS 110 or POLS 110H, or a score of 3 or above on the Advanced Placement American Government examination
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: 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 complete the Community College Pathway to Law School Initiative.
3 Units
54 Lecture hours

POLS 128 (Same as PHIL 128)
(C-ID POLS 120)
Introduction to Political Philosophy
Advisory: ENGL 101 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is for students interested in the relationship between political systems and philosophy. It is especially relevant for students interested in political science, philosophy and law. This course introduces the history and development of political thought, and will consider the justification of the State, Libertarianism, Socialism, Communism, as well as conceptions of rights and distributions of goods.
3 Units
54 Lecture hours

POLS 130 (C-ID POLS 130)
Comparative Government
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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. This course features an examination of current political problems and a comparison of such differing ideologies as Marxism, democracy, theocracy, and totalitarianism. This course is intended for the student interested in the study of foreign governments and for those who wish to major in political science.
3 Units
54 Lecture hours

POLS 135 (Same as ECON 135)
International Political Economy
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

POLS 140 (C-ID POLS 140)
International Relations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours

POLS 150
Chicano Politics (Same as CHST 150)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 appropriate assessment
Transfers to: UC, CSU
This course examines U.S. history and political issues relevant to the Chicano/Latino community, provides an overview of Chicano/Latino demographics in the U.S. examines Chicano/Latino political activism and the rise of Chicano/Latino political leadership. Students interested in this course may include individuals with familial or personal connections to the Chicano (Mexican-American) community and/or those intending to work in environments with high concentrations of this population.
3 Units
54 Lecture hours

POLS 290
Cooperative Work Experience/Internship for Political Science Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course supports and reinforces on-the-job training in governmental positions 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 local, county, state, or federal government 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 government and have completed or enrolled in the appropriate coursework. “Contact the CWE office regarding re-enrollment procedures.”
3 Units
54 Lecture hours
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
1 to 4 Units
3 Lecture hours
60 to 300 hours

POLS 299
Directed Study: Political Science

Transfers to: UC, 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 3.1 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.

1 to 3 Units
54 to 216 Lab hours

PSYCHOLOGY
Division of Behavioral & Social Sciences

PSY 101 (C-ID PSY 110)
Introductory Psychology

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.

3 Units
54 Lecture hours

PSY 101H (C-ID PSY 110)
Introductory Psychology Honors

Prerequisite: ENGL 101 with a grade of "C" or better

Advisory: READ 023 or appropriate assessment

Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.

3 Units
54 Lecture hours

PSY 112 (C-ID PSY 180)
Lifespan Development

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: PSY 112 or CD 106)

This course provides an overview of human psychological development across the lifespan. It addresses the physical, cognitive, social, and emotional changes that occur from the prenatal period through death. It explores the development issues of stability vs. change, continuity vs. discontinuity, and nature vs. nurture, and examines the perspectives of major developmental theorists, including Freud, Erikson, and Piaget. It explores current research findings and their applicability to ongoing developmental problems. This course is appropriate for the student seeking to develop a better understanding of the development gains and losses that occur throughout our lives.

3 Units
54 Lecture hours

PSY 114 (C-ID PSY 120)
Introduction to Abnormal Psychology

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This course provides an introduction to the study of abnormal behavior for psychology majors, those with an interest in abnormal psychology, or anyone with a desire to further their understanding of abnormality. 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 DSM-IV-TR criteria, but develop an appreciation of the cultural, historical and theoretical influences that affect the definitions and treatment of abnormal behavior.

3 Units
54 Lecture hours

PSY 116
Introduction to Cross-Cultural Psychology

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: CSU

This course provides an introduction to the literature of Cross-Cultural Psychology. This course is organized around understanding the historical events leading to research in cross-cultural psychology, and the efforts to understand human behavior within an international and multicultural context. From this context, a variety of psychological phenomena will be studied including consciousness, learning and memory, life-span development, perception, cognition, emotion, social psychology, and stress and coping.

3 Units
54 Lecture hours

PSY 121
Drugs, Society, and Behavior

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: 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.

3 Units
54 Lecture hours

PSY 123
Drug Education and Prevention
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 will 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 will all be considered.

3 Units
54 Lecture hours

PSY 127
Introduction to the Physiological Effects of Drugs of Abuse
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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. It provides an examination of the pharmacological actions of drugs of abuse and how this relates to the physiological, as well as the behavioral, effects of such drugs. The properties of drugs that increase the likelihood of the development of dependence will be emphasized.

3 Units
54 Lecture hours

PSY 128
Introduction to Learning and Memory
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course details the background and research that led to the identification of the different types of learning and memory. Students will explore topics in the field of learning and memory including but not limited to classical conditioning, operant conditioning, instrumental conditioning, short-term and long-term memory, forgetting, and models of learning and memory. This course is beneficial for students that are Psychology majors, students looking to transfer as a Psychology major and students that are interested in learning about the field of learning and memory.

3 Units
54 Lecture hours

PSY 180
Positive Psychology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course focuses on the research, theories, and ideas surrounding, promoting, and maintaining well-being, good health, and happiness. Students will explore topics in the field of positive psychology including but not limited to wellness, optimism, flow, happiness, and positive thinking. This course is beneficial for students that are Psychology majors, students looking to transfer as a Psychology major and students that are interested in learning about positive psychology.

3 Units
54 Lecture hours

PSY 190 (C-ID SOCI 125)
Statistics for the Behavioral Sciences
Prerequisite: MATH 070 or MATH 070D or MATH 073 with a grade of “C” or better or appropriate assessment
Advisory: ENGL 101 and READ 023 or appropriate assessment
Transfers to: UC, CSU
This course provides an overview of the types of statistics that are important in the behavioral sciences. The main focus of this course is on hypothesis testing and the statistics that are used to analyze it. Students will learn to present and interpret experimental data from the behavioral sciences. Topics covered include basic probability, measures of central tendency, measures of variance, sampling, and inferential statistics. This course is designed for students majoring in psychology, sociology, political science, and anthropology.

4 Units
72 Lecture hours

PSY 200 (C-ID PSY 200)
Research Methods in Psychology
Prerequisite: PSY 101
Prerequisite/Corequisite: MATH 130 or PSY 190
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course provides an introduction to the philosophy of science and the examination of the 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 review, research ethics, collection and analysis of data, and writing APA-style reports. Collection, handling, and analysis of original empirical data, during class and outside of class, in both experimental and non-experimental designs, are an integral component of the course. The course is designed for students intending to pursue a degree in psychology.

3 Units
36 Lecture hours
54 Lab hours

PSY 210 (C-ID PSY 150)
Biological Psychology
Prerequisite: PSY 101
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: PSY 210 or PSY 210H)
This course is designed for the student who has an interest 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 will be addressed. The extent to which biological processes interact with environmental influences to determine behavior will be explored.

3 Units
54 Lecture hours

PSY 210H (C-ID PSY 150)
Biological Psychology Honors
Prerequisite: PSY 101 and ENGL 101 with a “C” or better. Enrollment is restricted to those who meet Honors Program requirements (minimum GPA of 3.0)
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: PSY 210 or PSY 210H)
This course is designed for the student who has an interest 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 will be addressed. The extent to which biological processes interact with environmental influences to
determine behavior will be explored. This course is intended for students eligible for the Honors Program.

3 Units
54 Lecture hours

PSY 299
Directed Study: Psychology

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CU, 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.

1 to 3 Units
54 to 216 Lab hours

RADIO

Division of Communications & Languages

RDIO 104
Introduction to Broadcasting

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CU, CSU

This course is an introduction into the field of broadcasting in a survey form covering the vast areas of broadcasting throughout the world. It is a broad survey of the history, theory, and operation of radio and television broadcasting in the United States, including legal and social aspects, networks, programming, production, sales and advertising, and station personnel. At least one field trip to a radio or television studio will be scheduled each semester.

3 Units
54 Lecture hours

RDIO 136
Radio Production

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CU, CSU

This course is intended as an introduction for students wanting to learn the production and management techniques in radio broadcasting. Students will be shown basic techniques for writing and producing the commercial and public service type announcements. Students will be shown through lecture, demonstration, and taped examples the proper announcing and on-air presentation techniques. Students will make demonstration tapes and air checks of examples of their work for submission to the instructor and the class for evaluation. Selected students will have an opportunity to air their programs over the campus radio station KRHC.

4 Units
36 Lecture hours
108 Lab hours

RDIO 236
Advanced Radio Production

Prerequisite: RDIO 136 with a grade of "C" or better
Transfers to: CU, CSU

This course is intended as an advanced study for students wanting to learn production and management techniques utilized in radio broadcasting. Students will be shown proper announcing and on-air presentation techniques through lecture, demonstration, and taped examples. Students will have an opportunity to air their programs over the campus Internet radio station KRHC.

4 Units
36 Lecture hours
108 Lab hours

RDIO 290
Cooperative Work Experience/Internship for Radio Related Fields

Prerequisite: IOUR 147
Transfers to: CU, 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
1 to 4 Units
3 Lecture hours
60 to 300 hours

RDIO 299
Directed Study: Radio

Transfers to: CU, 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.

1 to 3 Units
54 to 216 Lab hours
READING
Division of Communications & Languages

READ 012 Learning Strategies
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 021 or appropriate assessment
This course is designed for students entering college who need to develop their skills as learners. Students will build and acquire study techniques in the areas of note-taking, test-taking, text reading, memorizing, time planning and communicating. The emphasis of this class will be on learning new techniques and then applying them to classes and work situations. This is a non-degree credit course and is offered on a pass/no pass basis.
1.5 Units
27 Lecture hours

READ 020 Introductory Reading
This is an introductory course for students with beginning reading skills. Students will learn meanings and the pronunciation of new words. In addition, students will practice basic comprehension skills through readings dealing with the workplace, college, and everyday life. This course is appropriate for native and second language learners. This is a non-degree applicable course offered on a pass/no pass basis.
3 Units
54 Lecture hours

READ 021 Basic Reading
Prerequisite: Appropriate placement through the Rio Hondo Assessment process
Corequisite: READ 021L
This course is designed for students who want to improve their reading skills in order to succeed in other college classes. Students will learn how to read and understand short works of fiction and nonfiction as well as key vocabulary words associated with college and everyday life through context clues, word parts, and dictionary usage. Students will also learn to recognize transitions, main ideas and supporting details. This is a non-degree applicable course and is offered on a pass/no pass basis. All students are required to concurrently enroll in the Reading Lab, READ 021L.
3 Units
54 Lecture hours

READ 021L Reading Lab
Prerequisite: Appropriate placement through the Rio Hondo Assessment process
Corequisite: READ 021
This course is a skills class designed to assist students in improving reading comprehension and vocabulary through individually prescribed lab work. Students will complete reading tasks intended to complement the activities of their reading course. All READ 021 students must enroll. This is a non-degree applicable course offered on a pass/no pass basis.
0.5 Units
27 Lab hours

READ 022 Intermediate Reading Skills
Prerequisite: Successful completion of READ 021 with a "P" or appropriate placement through the Rio Hondo assessment process
Corequisite: READ 022L
This course is designed for students who want to improve their reading skills in order to succeed in other college classes. Students will develop comprehension and vocabulary through the reading of material drawn from popular works, textbooks, magazines, and newspapers. Areas addressed include determining main ideas, recognizing supporting details, identifying author’s organization, and making inferences. This is a non-degree credit course and is offered on a pass/no pass basis. All students are required to concurrently enroll in READ 022L.
3 Units
54 Lecture hours

READ 022L Reading Lab
Prerequisite: Successful completion of READ 021 with a "P" or appropriate placement through the Rio Hondo assessment process
Corequisite: READ 022
This course is a skills class intended to assist students in improving reading comprehension and vocabulary through individually prescribed lab work. Students will complete reading tasks designed to complement the activities of their reading course. All READ 022 students must enroll. This is a non-degree applicable course offered on a pass/no pass basis.
0.5 Units
27 Lab hours

READ 023 Reading College Textbooks
Prerequisite: READ 022 or appropriate assessment
This is a course designed for students who need to improve their reading competencies in order to succeed in other college classes. Areas of emphasis will include reading strategies essential in such academic areas as social sciences, science, technology, business and humanities. The course also introduces academic vocabulary. This is a non-degree credit course and is offered on a pass/no pass basis.
3 Units
54 Lecture hours

READ 101 Critical Reading
Prerequisite: READ 023 or appropriate assessment
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: CSU
This course is designed to aid students in acquiring critical reading and thinking skills across the disciplines. Emphasis is placed on the ability to analyze and evaluate material by establishing thesis and supporting as well as by analyzing elements of argumentation. The course also focuses on vocabulary and the effects of language on the reader.
3 Units
54 Lecture hours

READ 134 Effective Study Methods
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for students who want to acquire study strategies for college success and lifelong learning. The class topics include student motivation techniques, time management methods, book marking approaches, memory processes, lecture note-taking styles, test preparation procedures, and test-taking strategies. In addition, students will explore more effective class-related communications and creative thinking styles while using college, internet, and community resources. By learning, practicing, and implementing the course theories and strategies, students will succeed in their education, careers, and communities.
3 Units
54 Lecture hours

REGISTERED DENTAL ASSISTING
Division of Health Sciences & Nursing

RDA 051 Registered Dental Assisting I
Prerequisite: Acceptance into Registered Dental Program
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or
SOCIETY
Division of Behavioral & Social Sciences

SOC 101 (C-ID SOCI 110)
Introduction to Sociology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: SOC 101 or SOC 101H)
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 addressed include problems of mental and physical health including addictions, crime and violence, social inequality, terrorism and war, as well as technology and the environment. Various social theories and relevant empirical research are critically examined throughout the course.
3 Units
54 Lecture hours

SOC 101H (C-ID SOCI 110)
Introduction to Sociology Honors
Prerequisite: Enrollment is restricted to those who meet Honors Program requirements (minimum GPA of 3.0) and completion of ENGL 101 with a "C" or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: SOC 101 or SOC 101H)
This course is designed for those with an interest in Sociology, or anyone with a desire to further their understanding of human group behavior and the organization of society. The student, using several theoretical points of view, will study and analyze: (1) the organization of social life; (2) problems of inequality - of age, sex, race and ethnicity, social class and life style; (3) the basic social institutions: family, religion, and economics; and (4) global issues of technology, social movements and social change.
3 Units
54 Lecture hours

SOC 102 (C-ID SOCI 115)
Major Social Problems
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 addressed include problems of mental and physical health including addictions, crime and violence, social inequality, terrorism and war, as well as technology and the environment. Various social theories and relevant empirical research are critically examined throughout the course.
3 Units
54 Lecture hours

SOC 105
Introduction to Human Sexuality
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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. Numerous factors involved in human sexuality are explored, emphasizing sexuality as a form of human interaction. The social, cultural, and historical contexts of human sexuality will be critically analyzed.
3 Units
54 Lecture hours

SOC 110
Human Sexuality from a Cross-Cultural Perspective (Same as ANTH 110)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students with an interest 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 developement and expression of gender and orientation from both Western and non-Western perspectives, with an emphasis on the influence of culture on individuals.
3 Units
54 Lecture hours

SOC 114 (C-ID SOCI 130)
Marriage, Family and Intimate Relationships
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
54 Lecture hours
SOC 116 (C-ID SOCI 150)
Introduction to Race and Ethnic Relations
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for students interested in understanding the complexities of multi-ethnic, multi-racial societies. This course presents an overview of the structure and character of racial and ethnic relations in the United States and abroad. Students will gain knowledge of the treatment and experiences of a variety of racial and ethnic cohorts and gain insight into the complex social features of inter-group contact.
3 Units
54 Lecture hours

SOC 120 (C-ID SOCI 140)
Perspectives of Sex & Gender
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
In this course we will explore how gender shapes our lives and the world around us. Using a sociological perspective, we will examine gender as a social construction rather than a simple biological difference. Topics to be covered will include, but not encompass, cultural ideas of gender, gender and the economy, politics, the media, families, and education. This course is designed for men and women who want to learn more about the social connections of gender and how the importance of gender differences are strengthened in our society today.
3 Units
54 Lecture hours

SOC 127 (C-ID SOCI 160)
Introduction to Criminology
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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 that are formally defined as crime and delinquency will be 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.
3 Units
54 Lecture hours

SOC 148
La Chicana: The Contemporary Mexican-American Female (Same as CHST 148)
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This introductory course explores the racial/ethnic identity formation of Chicanas/Mexican origin women in the United States. Course themes include an examination into the development of the term "Chicana", the emergence of Chicana feminism, and the intersection of race, gender, class, and sexuality in relation to the formation and study of Chicana identities. This course is an interdisciplinary one, drawing on methodologies from racial/ethnic studies, women/gender studies, queer studies, history, literature, sociology, and popular culture. This course is appropriate for students interested in furthering their understanding of the social construction of the Mexican American woman.
3 Units
54 Lecture hours

SOC 299
Directed Study: Sociology
Transfers to: UC, 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 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.
1 to 3 Units
54 to 216 Lab hours

SPAN 101 (C-ID SPAN 100)
Spanish I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following sequences of courses: SPAN 101 and SPAN 102 or SPAN 130 and SPAN 131)
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 receive intensive individualized oral-aural practice in the language laboratory via interactive websites, audio CDs, video programs, and CD ROMs. 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.
4 Units
72 Lecture hours
18 Lab hours

SPAN 102 (C-ID SPAN 110)
Spanish II
Prerequisite: Successful completion of SPAN 101 or two years of high school Spanish
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following sequences of courses: SPAN 101 and SPAN 102 or SPAN 130 and SPAN 131)
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 receive intensive individualized oral-aural practice in the language laboratory via interactive websites, audio CDs, video programs, and CD ROMs. 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.

4 Units
72 Lecture hours
18 Lab hours

SPAN 130
Spanish for Heritage Speakers I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following sequences of courses: SPAN 101 and SPAN 102 or SPAN 130 and SPAN 131)
This course is designed to improve the language skills of students with a Spanish language background. Emphasis will be placed on the improvement of reading and writing skills. Aspects of culture, civilization, and literature from the Spanish-speaking countries will be included.
3 Units
54 Lecture hours

SPAN 131
Spanish for Heritage Speakers II
Prerequisite: SPAN 130 with a grade of "C" or better
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following sequences of courses: SPAN 101 and SPAN 102 or SPAN 130 and SPAN 131)
This course is a continuation of SPAN 130. It is designed to further improve the language skills of students with a Spanish language background. Emphasis will continue to be placed on the improvement of reading and writing skills, focusing especially on accents and spelling. Aspects of the culture and civilization of Spanish-speaking countries will be included in the readings of the literature of Spanish-speaking countries. This course is intended for students who are native speakers of Spanish.
3 Units
54 Lecture hours

SPAN 201
Spanish III
Prerequisite: SPAN 102 or SPAN 131 with a grade of "C" or better, or three years of high school Spanish
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC 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 also includes intensive classroom practice in conversation and composition. In addition to classroom instruction, students receive intensive, individualized oral-aural practice in the language laboratory in which websites, video programs, audio CDs, and CD ROMs are used.
Many aspects of Spanish culture are introduced in short stories by Latin American and Spanish authors. Students strengthen their communication and writing skills by analyzing these stories in Spanish. This course is designed for students who wish to broaden their knowledge in Spanish, as well as for those interested in pursuing a degree in the Spanish language.
4 Units
72 Lecture hours
18 Lab hours

SPAN 201H
Spanish III Honors
Prerequisite: ENGL 101 with a grade of "C" or better and SPAN 102 or SPAN 131 with a grade of "C" or better, or three years of high school Spanish
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC 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 also includes intensive classroom practice in conversation and composition. In addition to classroom instruction, students receive intensive, individualized oral-aural practice in the language laboratory in which websites, video programs, audio CDs, and CD ROMs are used.
Many aspects of Spanish culture are introduced in short stories by Latin American and Spanish authors. Students strengthen their communication and writing skills by analyzing these stories in Spanish. This course is designed for students who wish to broaden their knowledge in Spanish as well as for those interested in pursuing a degree in the Spanish language.
4 Units
72 Lecture hours
18 Lab hours

SPAN 202
Spanish IV
Prerequisite: SPAN 201 or 201H with a grade of "C" or better or four years of high school Spanish
Transfers to: UC, CSU
SPAN 202 is an intermediate level course designed to further improve the use of Spanish grammar, conversation, reading comprehension and composition. Various aspects of Spanish culture and literature are introduced through readings in the textbook and in supplementary readings. Students strengthen their communication and writing skills by analyzing literary selections that vary in style from simple journalist writing to highly original and complex literary works in Spanish. Students receive intensive, oral-aural practice in the language laboratory in which websites, video programs, audio CDs, and CD ROMs are used.

SPEECH
Division of Communications & Languages

SPCH 100 (C-ID COMM 130)
Interpersonal Communication
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU
Interpersonal Communication is an introductory course focusing on interactions 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.

3 Units

SPCH 101 (C-ID COMM 110)
Public Speaking
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This introductory course is designed to prepare students to be effective oral communicators in all aspects of public presentations including design and delivery of the public speech. The course is appropriate for all students interested in developing their public speaking knowledge and skills such as speech communication majors, future teachers, and future business leaders.

3 Units

SPCH 101H
Public Speaking Honors
Prerequisite: ENGL 101 with a grade of “C” or better
Advisory: READ 023 or appropriate assessment

This introductory course is designed to prepare students to be effective oral communicators in all aspects of public presentations including design and delivery of the public speech. The course is appropriate for all students interested in developing their public speaking knowledge and skills such as speech communication majors, future teachers, and future business leaders. This course is designed for students eligible for the Honors Program.

3 Units

SPCH 102
Fundamentals of Oral Communication
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

for only one of the following courses: SPCH 101, SPCH 101H or SPCH 102

This is a course designed for students who want a broad overview of communication. The principles of interpersonal communication, group communications, and public speaking will be addressed. The roles of interpersonal and group communication as they are used in everyday activities and in the workplace will be covered. Students will develop, organize, and deliver speeches for a variety of public audiences and occasions.

3 Units

SPCH 110 (C-ID COMM 160B)
Forensics: Speech and Debate Team
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment; Prior or concurrent enrollment in SPCH 101 or SPCH 101H or SPCH 130 or SPCH 140

This course trains students to participate in Rio Hondo’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. This 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.

1 to 4 Units

18 Lecture hours

54 to 162 Lab hours

SPCH 111
Forensics: Debate Research and Practice
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment

This course involves participation in the Forensic Speech Team. Emphasis is placed on research and writing; practice; and participation in intercollegiate debate tournaments. Emphasis is placed on successful participation in National Parliamentary Debate Association (NPDA) sanctioned tournaments. This course is recommended for students preparing for careers in law, political science, or community advocacy. This course may be taken once and repeated three times for credit.

2 Units

108 Lab hours

SPCH 112
Forensics: Oral Interpretation Laboratory
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment

This course is designed to train students in the analysis and performance of literature at speech events attended by the Forensic Speech Team. Students develop skills to interpret and perform literature ranging from the play, screenplay, short story, novel, and poetry. Students gain an understanding of character and scene analysis as it applies to an oral interpretation performance. This course is recommended for students specializing in communication, performance studies, and creative literature. This course may be taken once and repeated three times for credit.

2 Units

108 Lab hours

SPCH 130 (C-ID COMM 170)
Oral Interpretation
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course may be taken once and repeated three times for credit.

2 Units

54 Lecture hours

SPCH 132
Readers Theatre
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This is a creative communication course focusing on group presentations of literature. Students will perform pose, 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.

3 Units

54 Lecture hours
SPCH 140 (C-ID COMM 120)
Argumentation and Debate
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment.
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC 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.
3 Units
54 Lecture hours

SPCH 201
Advanced Public Speaking
Prerequisite: SPCH 101 with a grade of “C” or better
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment.
Transfers to: UC, CSU
Advanced Public Speaking provides an introduction to the skill necessary for publicly influencing others. A major goal of the course is to develop the skills needed to engage in ethical persuasion and public speaking in general. Emphasis is placed on the historical origins of rhetorical communication and how it relates to current day situations. Students will explore the five canons of rhetoric and apply them to creating and delivering informative and persuasive presentations. This course is designed for students who are interested in refining the skills used by successful public speakers.
3 Units
54 Lecture hours

SPCH 240
Argumentation and Discussion
Prerequisite: SPCH 140 with a grade of “C” or better
Transfers to: UC (credit limit*), CSU (*Students will receive credit from UC for only one of the following courses: SPCH 140 or SPCH 240)
This course gives the student expanded practice and theory in argumentation. Students further develop their argumentation knowledge and skills through debate participation, observation, and discussion. This course is particularly appropriate for students anticipating entering occupations involving extensive argumentation and deliberation such as law, communication, negotiation, and any area where argumentation and debate occur frequently.
3 Units
54 Lecture hours

TECHNICAL EDUCATION
Division of Career & Technical Education

TCED 044
OSHA Workplace Safety
Advisory: READ 023 or appropriate assessment
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. 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, which is good for life.
1 Unit
18 Lecture hours

TCED 045
Survey of Technology
Advisory: READ 023 or appropriate assessment
This course is an exploration of the various applied technologies pertinent to society today. Students will receive an introduction to auto technology, auto collision, drafting/architecture, geographical information systems, and fabrication. Lectures/demonstrations will focus on practical applications and career paths/job opportunities represented by the disciplines discussed. Students will be given hands-on opportunities to explore skills associated with the disciplines. This course will provide the student an introduction to five different technology disciplines to help him/her determine a potential career path and/or make them a more informed consumer of these technologies.
3 Units
45 Lecture hours
27 Lab hours

TCED 046
Industrial Design & Visual Communications
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Intended for students interested in a career in Transportation Design or Product Design, this course introduces the student to the fundamentals of industrial design drawing and communication. Course begins with a lecture about possible career opportunities which exists within this profession. Students will learn to improve hand/eye coordination through repetition of given drawing task. Instruction emphasizes perfecting line, arc, circle and ellipse. Perspective drawing and shading are introduced. Culmination of the course will require the student to produce and present a solution to a given design problem and produce visual aids to describe product proposal and solution.
2 Units
18 Lecture hours
54 Lab hours

TCED 054
OSHA Workplace Safety II
Advisory: READ 023 or appropriate assessment
This course is intended 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.
4 Units
72 Lecture hours

TCED 060
Elementary Metallurgy
Advisory: READ 022 or appropriate assessment
This is an elementary course in the basic principles of metallurgy. It is designed for Welding and Machine Shop majors, but is suitable for all technology students. Emphasis is
placed on terminology, numbering systems, methods of altering the properties of metals, and the effect on fabrication.

2 Units
36 Lecture hours

TCED 070
Foundation Skills for Technical Trades I
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is part one of a two-part series of courses designed to assist the student to become more effective and efficient in fundamental skills used in Technical Trades. The student will also gain an understanding of attitudes and behaviors that are beneficial to succeed in vocational settings and everyday life. Course content includes units of measure and measurement tools; converting fractions, decimals, and percentages; graphs and charts; perimeter, area, and volume; and personal finance. Emphasis will be placed on the practical application of these topics, and the use of a variety of hands-on classroom activities is included.
3 Units
54 Lecture hours

TCED 080
Foundation Skills for Technical Trades II
Prerequisite: TCED 070
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course is part two of a two-part series of courses designed to assist the student to become more effective and efficient in fundamental skills used in Technical Trades. The student will also gain an understanding of attitudes and behaviors that are beneficial to succeed in vocational settings and everyday life. Course content includes solving technical problems using value analysis, graphs and charts, and personal growth. Emphasis will be placed on the practical application of these topics, and the use of a variety of hands-on classroom activities is included.
3 Units
54 Lecture hours

TCED 090
Blueprint Reading for Manufacturing Drawings
Advisory: READ 022 or appropriate assessment
This course presents an introduction to the use of blueprints as used in industrial applications. Principles of reading drawings, specifications, projection principles, working drawings, details, assemblies and pictorial representation are discussed. The course is helpful for apprentices and employees in all areas of technology including planning, purchasing, manufacturing, machine trades, welding, future engineers, and inspection.
2 Units
36 Lecture hours

TCED 299
Directed Study: Technical Education
Transfers to: UC, 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.
1 to 3 Units
54 to 216 Lab hours

TELEVISION
Division of Arts & Cultural Programs

TV 135
Creative Digital Video
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This is a basic course in film-style production techniques for drama and music videos. Topics will include creating a story treatment, script writing, storyboarding, camera handling, lighting, audio, and simple editing. Students will work in teams and crew all positions, including writer, producer, director, 1st assistant director, 2nd assistant director, lighting director, gaffer, camera operator, boom operator, and editor. Emphasis will be placed on defining the content, structure, and style of the production. This course may be of interest to students interested in both film and television production.
3 Units
36 Lecture hours

THER
Division of Arts & Cultural Programs

THTR 101 (C-ID THTR 111, 112)
Theatre Arts Appreciation
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student interested in an overview of the entire field of theatre. The practice and theory of the following will be explored: costume, set and lighting design, acting, directing, playwriting, criticism, play structure, theatre architecture and producing. Included will be a brief historical overview. At least one field trip to a professional theatre production will be organized.
3 Units
54 Lecture hours

THTR 105 (C-ID THTR 113)
The History and Development of the Theatre
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: THTR 105 or THTR 105H)
This course is designed for the student with an interest in history or theatre. It will cover humanity’s relationship with theatre from primitive tribal cultures through today’s large musicals and blockbuster hits. The class explores the way societies’ religious, political and social structures were presented and shared through their theatre. The class will investigate major plays, playwrights and historic theatrical techniques through lectures, discussion, field trips and films.
3 Units
54 Lecture hours
The Theatre Honors program includes courses such as THTR 105H (C-ID THTR 113) The History and Development of the Theatre. This course is designed for the student with an interest in the history of theatre, covering the development of theatre from primitive tribal cultures through today's large musicals and blockbuster hits. The class explores the way societies' religious, political and social structures were presented and shared through their theatre. The class will investigate major plays, playwrights and theatrical techniques through lectures, discussions, field trips and films. This course is designed for students eligible for the Honors program.

3 Units
54 Lecture hours

THTR 110 (C-ID THTR 151) Principles of Acting
Prerequisite: ENGL 101 with a grade of "C" or better
Advisory: READ 023 or appropriate assessment
Transfers to: UC (credit limit*), CSU
(*Students will receive credit from UC for only one of the following courses: THTR 105 or THTR 105H)
This course is designed for the student who wishes to gain a basic understanding of the acting process. The course will cover the humanistic and aesthetic principles of acting, focusing on the actor's relationship with the audience, literary analysis of text, and understanding of the acting process. The student will learn the technical phases of scene production including construction, lighting, sound, 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.
3 Units
18 Lecture hours
108 Lab hours

THTR 150 Principles of Acting
Prerequisite: ENGL 030 or ENLA 034 or appropriate assessment
READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who is interested in acting and other 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 the development of the actor through exercises, character analysis, monologues, and scenes. This course is designed for students eligible for the Honors program.
3 Units
36 Lecture hours
54 Lab hours

THTR 151 Theatre Crafts II
Prerequisite: THTR 150
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wishes to expand the skills and concepts acquired in Theatre Crafts I (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.
3 Units
18 Lecture hours
108 Lab hours

THTR 152 Theatre Crafts III
Prerequisite: THTR 151
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wishes to further expand the skills and concepts acquired in Theatre Crafts I and II. 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 sets, props, lights and sound for Rio Hondo theatrical productions. Students are assigned a specific crew lead with supervisory responsibility that directly relates to a college theatre production.
3 Units
18 Lecture hours
108 Lab hours

THTR 153 Stage Lighting
Prerequisite: THTR 101 or THTR 110 or THTR 150 or THTR 170 or THTR 171 or THTR 180
Transfers to: UC, CSU
This course is designed for the student who wants to gain an understanding and appreciation of the roles light and lighting design play in the theatrical production. Students will gain understanding in lighting design theory, function and esthetics. Students will be able to hang, focus, color, cable and strike conventional and automatic lighting fixtures as well as identify and select appropriate types of lighting fixtures, cables, control and power distribution equipment for a given purpose. Electrical and operational safety will receive special emphasis. Students will be able to operate lighting consoles at a proficient level.
3 Units
18 Lecture hours
108 Lab hours

THTR 154 Stage Audio
Prerequisite: THTR 101
Advisory: ENGL 030 or ENLA 034 or appropriate assessment
READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wants to gain an understanding and appreciation of the roles audio and audio design play in the theatrical production. Students will gain an understanding in audio design, function and esthetics. Students will be able to rig, cable, troubleshoot, strike and maintain analogue and digital audio equipment as well as identify and select appropriate types of microphones, cables, speakers and sound amplification equipment for a given purpose. Electrical and operational safety will receive special emphasis. Students will be able to operate audio mixing consoles at a proficient level.
3 Units
18 Lecture hours
108 Lab hours
THTR 159 (C-ID THTR 192)
Stage Crew Activity
Advisory: READ 022 or appropriate assessment
Transfers to: UC, CSU
The course is designed for the student to gain practical hands on technical experience working backstage on Arts and Cultural Programs approved public performances of theatrical, musical or dance productions and is taken in conjunction with Technical Theatre courses. The course may be taken once and repeated three times for credit.
1 to 3 Units
54 to 162 Lab hours

THTR 160
Introductory Playwriting Screenwriting
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
36 Lecture hours
54 Lab hours

THTR 161
Playwriting Screenwriting for Production
Prerequisite: THTR 160
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
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.
3 Units
36 Lecture hours
54 Lab hours

THTR 170 (C-ID THTR 191)
Theatre Rehearsal and Performance
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; THTR 110
Limitations: Acting Students must audition and Technical Students must interview prior to participating in the course
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 will be adjudicated 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 given 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.
3 Units
18 Lecture hours
108 Lab hours

THTR 171
Musical Theatre Rehearsal and Performance
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Limitations: Performing Students must audition/interview and Technical/Support Students must interview prior to participating in the course
Transfers to: UC, CSU
This course is designed for the student who wants to be involved, onstage or backstage, in the creation and presentation of a musical production. This class introduces the student to the various aspects that make up a musical and, based upon auditions and interviews the student can take part in Music, Acting, Technical Theatre, Design, Dancing or Stage Managing under the supervision of a faculty director and other theatre, music and dance professionals.
3 Units
18 Lecture hours
108 Lab hours

THTR 172
Performing and Preparing the Comedy
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; THTR 110 or THTR 150
Transfers to: UC, CSU
This course is designed for the student who wants to study aspects of theatre production as they are created and expressed through comedic drama. The class will explore comedy genres, acting techniques, physical communication and comic objectives. Students will be part of a full-length or one-act production or a combination of both. Students may participate in a variety of activities including acting, directing, production, management, etc. Auditions will determine the specific assignment.
3 Units
18 Lecture hours
108 Lab hours

THTR 173
Rehearsal and Performance:
The Style Play
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; THTR 110 or THTR 150
Transfers to: CSU
This course is designed for the student who wants 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 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.
3 Units
18 Lecture hours
108 Lab hours

THTR 174
Introduction to Stage Costume
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who seeks to gain an understanding and appreciation of costume techniques used for the theatre and other entertainment industries. The student will gain the practical knowledge and experience necessary to work in a costume shop; an understanding of costume history; basic costume design including sketching; basic costume construction including alteration and sewing; costume design tools, materials and crafts; costume sourcing practices; and, backstage costume preparation and practices for productions. Students will be able to 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.
3 Units
36 Lecture hours
54 Lab hours

THTR 175
The Original Play in Production
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; THTR 110 or THTR 150 or THTR 160
Transfers to: UC, CSU
This course is designed for the student who wants to be part of the
process involved in the creation of a new play. The class will explore how plays are structured and how characters fleshed out by living actors affect the development of new theatre. Playwrights, actors, directors and designers will learn how to collaborate with each other. Students will be involved in a new full-length, one-act, or devised play. Students may participate in a variety of activities including acting, directing, production, management, playwriting, dramaturgy, etc. Auditions will determine most of the specific assignments.

3 Units
18 to 36 Lecture hours
108 Lab hours

THTR 180
Touring Theatre Local I
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wishes to expand the requirements of touring a theatre production, including acting, lighting, and maintaining props, costumes and sets. Students are assigned a specific responsibility that directly relates to a production that tours locally.
2 to 4 Units
18 to 36 Lecture hours
54 to 108 Lab hours

THTR 181
Touring Theatre Local II
Prerequisite: THTR 180
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wishes to gain a basic understanding of the rigorous requirements of touring a theatre production, including acting, lighting, and maintaining props, costumes and sets. Students are assigned a specific responsibility that directly relates to a production that tours locally.
2 to 4 Units
18 to 36 Lecture hours
54 to 108 Lab hours

THTR 210
Acting Workshop: Devising
Prerequisite: THTR 110 or THTR 150 or THTR 153 or THTR 170 or THTR 171 or THTR 174
Transfers to: UC, CSU
This class is for the student who wants to create their own work, whether they are actors or non-actors. The class will 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 will be presented.
3 Units
18 to 36 Lecture hours
54 Lab hours

THTR 215
Acting: A Course in Auditioning and Cold Reading
Prerequisite: THTR 110
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course is designed for the student who wants to be prepared and ready for academic, community or professional auditions. The student will work with the teacher at each class on selection of material, analyzing the text, presentation of material, presentation of self, personal appearance, cold readings, relaxing for an audition; preparation of resumes and pictures, etc., online sources, etc. By the end of the semester the student will have a variety of audition pieces ready.
3 Units
54 Lecture hours

THTR 230
Principles of Directing
Prerequisite: THTR 110
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student who wants to develop their ability to work with actors, interpret drama and to stage plays. It will cover the history and the techniques of the stage director. Emphasis is placed on class activities such as exercises and scenes. Career opportunities, stage management and assistant directing are also covered. It is a requirement for the Theatre Arts major.
3 Units
36 Lecture hours
54 Lab hours

THTR 231
Principles of Directing
Prerequisite: THTR 230
Advisory: READ 023 or appropriate assessment
Transfers to: UC, CSU
This course is designed for the student majoring in Theatre Arts. The class is a continuation of Theatre Arts 230. Techniques in casting, rehearsing, picturization, characterization, tempo and climax in play direction are covered. Students will direct a 10-minute play with other students.
3 Units
36 Lecture hours
54 Lab hours

THTR 286
Ballet Folklorico
Prerequisite: See request for exception
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU
This course is designed to give a general knowledge of the regional dance styles of Mexico and its cultural aspects. Instruction will focus on the development of technique in Ballet Folklorico movements. Participation in public performance is required.
2 Units
18 Lecture hours
54 Lab hours
18 Other hours

THTR 290
Cooperative Work Experience/Internship for Theatre Arts Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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

1 to 4 Units

3 Lecture hours

60 to 300 hours

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**VOCABULARY**

**Division of Communications & Languages**

**VOCB 025 Intermediate Vocabulary**

Advisory: READ 021 or appropriate assessment

This course is intended for students who want to develop precolligate-level reading, writing, and speaking vocabulary. Students will learn the meaning of new words commonly used in college textbooks and lectures, and they will use them in written and spoken sentences. Students will also gain knowledge of word roots to reinforce their understanding of words. This is a non-degree course and is offered on a pass/no pass basis.

3 Units

54 Lecture hours

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**VOCATIONAL NURSING**

**Division of Health Sciences & Nursing**

**VN 061 Basic Fundamentals of Nursing**

Prerequisite: HS 060; PSY 101

Corequisite: VN 061L

Advisory: READ 023 or appropriate assessment

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.

5 Units

270 Lab hours

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**VN 071L Introduction to Medical-Surgical Nursing Lab**

Prerequisite: VN 061 with a grade of “C” or better and VN 061L with a grade of “Pass”

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, musculoskeletal 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.

3.5 Units

189 Lab hours

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**VN 072L Intermediate Medical-Surgical Nursing Lab**

Prerequisite: VN 071L with a grade of “Pass”; VN 074 and VN 075 with a grade of “C” or better

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
VN 074 Nursing Care of Patients with Integumentary/Orthopedic Problems and Concepts of Gerontologic Nursing

Prerequisite: VN 061 with a grade of “C” or better and VN 061L with a grade of “Pass”

Using the Systems Developmental Stress Model, The Nursing Process, and Erickson’s Psycho-Social 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.

2.5 Units
45 Lecture hours

VN 075 Nursing Care of Patients with Endocrine Problems

Prerequisite: VN 061 with a grade of “C” or better and VN 061L with a grade of “Pass”

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, 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.

1 Unit
18 Lecture hours

VN 076 Nursing Care of Patients with Renal, Urinary and Gastrointestinal Problems

Prerequisite: VN 071L with a grade of “Pass”; VN 074 and VN 075 with a grade of “C” or better 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.

3.5 Units
63 Lecture hours

VN 077 Nursing Care of Patients with Cardiovascular and Respiratory Nursing Problems

Prerequisite: VN 071L with a grade of “Pass”; VN 074 and VN 075 with a grade of “C” or better Corequisite: VN 073

Using the Systems Developmental Stress Model, The Nursing Process, and Erickson’s Psycho-Social 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.

3 Units
54 Lecture hours

VN 078 Maternal and Pediatric Nursing Lab

Prerequisite: VN 073, VN 074, VN 075, VN 076 and VN 077 with a grade of “C” or better Corequisite: VN 084

This course will provide the student with the opportunity to use the nursing process with increasing independence in proving 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.

2.5 Units
135 Lab hours

VN 081L Advanced Medical/Surgical Nursing Laboratory

Prerequisite: VN 081L with a grade of “Pass” and VN 084 with a grade of “C” or better

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.

3.5 Units
189 Lab hours

VN 082L Applied Pharmacology

Prerequisite: VN 073 with a grade of “C” or better

Using the Systems Developmental Stress Model, The Nursing Process, and Erickson’s Psycho-Social 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.

2 Units
36 Lecture hours

VN 084 Maternal and Pediatric Nursing

Prerequisite: VN 072L with a grade of “Pass”; VN 073, VN 074, VN 075, VN 076 and VN 077 with a grade of “C” or better Corequisite: VN 081L

This course focuses on growth and development with concomitant problems traced from newborn through infancy, toddler, preschool, school-age and the adolescent. Nursing care appropriate to the developmental stage of the child and the focus of the pediatric problems including biological and psychological problem’s affecting the well and hospitalized child and family. This course is open to students enrolled in the Vocational Nursing Program and is required for Vocational Nurse licensure.
Nursing Program and is required for the Vocational Nursing Licensure.

4 Units
72 Lecture hours

VN 085
Leadership & Supervision for the Vocational Nurse
Prerequisite: VN 072L with a grade of “Pass”; VN 073, VN 074, VN 075, VN 076, and VN 077 with a grade of “C” or better
This course will introduce principles of leadership, group dynamics, delegation, and effective communication in working relationships for the vocational nurse. Emphasis is placed on delegation and supervision of 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 licensure.
0.5 Units
9 Lecture hours

VN 086
Mental Health and Neurological Nursing Problems
Prerequisite: VN 081L with a grade of “Pass” and VN 084 with a grade of “C” or better
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.
3 Units
54 Lecture hours

VN 087
Nursing Care of Patients with Cancer
Prerequisite: VN 072L and VN 081L with a grade of “Pass”; VN 073, VN 074, VN 075, VN 076, VN 077 and VN 084 with a grade of “C” or better
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.
1 Unit
18 Lecture hours

WELDING
Division of Career & Technical Education

WELD 040
Introduction to Welding Processes
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
2 Units
18 Lecture hours
54 Lab hours

WELD 045
Introduction to Electric Arc Welding
Advisory: READ 022 or appropriate assessment
This course utilizes the basic principles and techniques of hot metal deposition and control with practice in electric arc welding. Emphasis is placed on safety, theory, procedure and development of fundamental skills.
2 Units
18 Lecture hours
54 Lab hours

WELD 050
Semi-Automatic Welding Processes
Prerequisite: WELD 040
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
4 Units
36 Lecture hours
108 Lab hours

WELD 055
Manual Electric Arc Welding Processes
Prerequisite: WELD 040
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
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.
4 Units
36 Lecture hours
108 Lab hours

WELD 060
Production Welding Techniques
Advisory: READ 023 or appropriate assessment; WELD 045
This is an intermediate level course designed to introduce the student to welding techniques used in high volume production manufacturing applications. This class will focus on GMAW and GTAW for mild steel, stainless steel aluminum, and will include pulsed-arc applications for both processes. In addition, the student will be introduced to welding fixtures, welding positioners and other auxiliary welding equipment. Emphasis will be placed on shop safety and on developing proper working procedures.
4 Units
36 Lecture hours
108 Lab hours

WELD 065
Inert Gas Welding
Prerequisite: WELD 040
Advisory: READ 022 or appropriate assessment
This course offers specialized training and introduction in theory and manipulative skills of the inert-gas welding process. Discussed are the use and adjustments of welding equipment. Welding is practiced on ferrous metals, including stainless steel, and on non-ferrous metals such as aluminum. Necessary instruction is provided to perform TIG welding on copper, magnesium, titanium, and cast iron.
4 Units
36 Lecture hours
108 Lab hours
WELD 070  
Advanced Inert Gas Welding  
**Prerequisite:** WELD 065  
**Advisory:** READ 022 or appropriate assessment  
This is an advanced course in Gas Tungsten Arc Welding (Heli-Arc). Emphasis will be on specialty and precision welding, including semi-automated methods. Necessary instruction will be given on the requirements for passing the Mil Std 1595 A certification test.  
4 Units  
36 Lecture hours  
108 Lab hours

WELD 075  
Certification Welding I  
**Prerequisite:** WELD 050; WELD 055  
**Corequisite:** WELD 080  
**Advisory:** ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment  
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 performance 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.  
3 Units  
54 Lecture hours  

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**WELD 085**  
**Metal Fabrication**  
**Prerequisite:** WELD 040; WELD 050; WELD 055; WELD 065  
**Advisory:** READ 022 or appropriate assessment  
This course offers specialized training in metal fabrication. Instruction will include manipulative skills, layout methods, safety, and how to operate a wide variety of machines to perform either a singular or sequential operation.  
3 Units  
27 Lecture hours  
81 Lab hours

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**WFT 040**  
Firefighter Type 2 (S130)  
**Advisory:** ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment  
This is the first course in the wildland firefighter training series. This course provides students with entry level firefighting skills for wildland fire incidents. This course also 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 will prepare the student for a position as a Firefighter Type 2 (FF2). This course meets the National Wildfire Coordinating Group’s (NWCG) requirements for S-130/S-190/L-180/I-100 and J-158.  
2 Units  
32 Lecture hours  
12 Lab hours

**WFT 043**  
Wildland Fire Chain Saws (S212)  
**Advisory:** ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment  
This course provides the basic knowledge, understanding, function, maintenance, and use of internal combustion engine powered chain saws. The student will also learn the tactical use of wildland fire chain saws. Field exercises support entry level training for fighters with little or no previous experience in operating a chain saw. The field exercises will provide students with hands-on cutting experience in surroundings similar to fire line situations. This is an entry level course for students interested in wildland fire suppression and is highly recommended prior to enrolling in intermediate level wildland fire related course. Students who have already com-
WFT 044
Introduction to ICS (I100)
Advisory: ENGL 030 or ENLA 034 or
appropriate assessment; READ 023 or
appropriate assessment
This course provides an introduction to the Incident Command System (ICS-100), the National Incident Management System (ICS-700), the National Response Framework (ICS-800), and Emergency Support Function #4 – Firefighting (ICS-804). This course also provides a basic introduction to wildland fire management (S-110) and a basic working knowledge of the human performance concepts in dynamic and high risk environments (L-180). This course meets the National Incident Management System (NIMS) and National Wildfire Coordinating Group (NWCG) National Standard Curriculum.
1 Unit
18 Lecture hours

WFT 045
ICS for Single Resources (I200)
Prerequisite: WFT 044
Advisory: ENGL 030 or ENLA 034 or
appropriate assessment; READ 023 or
appropriate assessment
This course is designed to enable personnel to operate efficiently during an incident or event within the Incident Command System (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 provides training and resources for personnel who are likely to assume a supervisory position within the ICS. This course meets the National Incident Management System (NIMS) National Standard Curriculum.
0.7 Units
13 Lecture hours

WFT 046
Intermediate ICS (I300)
Prerequisite: WFT 045
Advisory: ENGL 030 or ENLA 034 or
appropriate assessment; READ 023 or
appropriate assessment
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 will be organized into teams for classroom exercises that replicate an incident operation. This course meets the National Incident Management Systems (NIMS) National Standard Curriculum.
1 Unit
24 Lecture hours

WFT 047
Advanced ICS (I400)
Prerequisite: WFT 046
Advisory: ENGL 030 or ENLA 034 or
appropriate assessment; READ 023 or
appropriate assessment
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 will emphasize advanced ICS concepts. This course meets the National Incident Management Systems (NIMS) National Standard Curriculum.
1 Unit
18 Lecture hours

WFT 077
Wildland Fire Academy
Prerequisite: Carry a 45 lb. pack three miles within a 45 minute time period; Must complete and pass a US Forest Service Physical.
Advisory: ENGL 035 or ENLA 100 or
appropriate assessment; READ 023 or
appropriate assessment
This course is designed for those students who desire to gain certification through the NWCG (National Wildland Coordinating Group) as a Wildland Firefighter. This course provides training in hand crew formation, fire line construction and the use of wild land equipment. Students will learn about wild land firefighter safety, fire behavior, protective clothing and wild land fire tools. This course includes arduous physical conditioning as day and night time hikes and other outdoor activity is included. This academy provides the required training for the US Forest Service and CAL Fire agencies as a wild land firefighter for certification purposes.
13 Units
162 Lecture hours
216 Lab hours

WFT 101
Wildland Fire Behavior
Advisory: ENGL 030 or ENLA 034 or
appropriate assessment; READ 023 or
appropriate assessment
Transfers to: CSU
This course is one in a series of core courses required for the Wildland Fire Technology Certificate of Achievement and Associate of Science Degree program. 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 will be discussed as it relates to wildland fire predictions. This course meets or exceeds the National Wildfire Coordinating Group’s (NWCG) requirements.
3 Units
54 Lecture hours

WFT 102
Wildland Fire Fighter Safety and Survival
Advisory: ENGL 030 or ENLA 034 or
appropriate assessment; READ 023 or
appropriate assessment
Transfers to: CSU
This course is one in a series of core courses required for the Wildland Fire Technology Certificate of Achievement and Associate of Science Degree program. This course provides students with information necessary to understand occupational safety and hazards associated with wildland firefighting operations. Emphasis will be placed on situational awareness, protective measures, accident avoidance procedures, and the risk management process. Students will also review fire ground near misses, entrapments, and fatalities. This course meets or exceeds the National Wildfire Coordinating Group’s (NWCG) requirements.
3 Units
54 Lecture hours

WFT 103
Wildland Fire Operation (Ground Air)
Advisory: ENGL 030 or ENLA 034 or
appropriate assessment; READ 023 or
appropriate assessment
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 program. This course provides students with information necessary to understand ground and air operations associated with wildland firefighting operations. Emphasis will be placed on incident command system use, strategy, tactics, hazards,
WFT 104
Wildland Fire Investigation, Prevention and Public Information
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
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 program. This course provides students with information and skills necessary to understand the roles and functions of the 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 will challenge the student’s public speaking, report writing, and presentation skills. This course meets or exceeds the National Wildfire Coordinating Group’s (NWCG) requirements.
3 Units
54 Lecture hours

WFT 105
Wildland Fire Logistics, Finance and Planning
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
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 program. This course provides students with information necessary to understand the responsibilities and functions of the logistics, finance, and planning sections. Emphasis will be placed on how the different incident command system sections are organized and utilized during wildland fire incidents. This course meets or exceeds the National Wildfire Coordinating Group’s (NWCG) requirements.
3 Units
54 Lecture hours

WFT 290
Cooperative Work Experience/Internship for Wildland Fire Technology Related Fields
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU
This course supports and reinforces on-the-job training in the Wildland 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 Wildland 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
1 to 4 Units
3 Lecture hours
60 to 300 hours
Non-Credit Courses

NBAS 004
General Academic Advisement
Courses designed to assist awareness of college programs and services and exercising good judgment in the selection of classes and an academic path. Topics can include basic skills assessment, campus life, academic and career choices, and other related subjects.
0 Unit
18 Lecture hours

NBAS 005
Personal and Career Exploration
Courses to increase awareness of processes for personal and career growth. Intellectual, social, emotional, and physical development; personal values clarification; decision-making; identification of needs and methods of satisfying; human sexuality and family life; and accepting and assuming responsibility for own behavior; and investigation into career and life planning alternatives can be explored. Included can be diagnostic testing, survey of interests, and capabilities, and development of positive self-image through group interaction.
0 Unit
18 Lecture hours

NBAS 008
Personal Learning Skills/Basic Skills
This course assists the student to become more effective and efficient in developing skills and knowledge necessary to function in a work setting. Skills may include psychomotor skills, communication skills and computer software skills. Opportunities to develop critical thinking skills in simulated situations are provided. The student may use computer assisted instructional programs, word processing, equipment related to the work setting, audiovisual materials and computer software to meet program objectives. Faculty and peers will provide tutoring services and assist students in completing assignments.
0 Unit
120 Lecture hours

NBAS 009
College Refresher Basic Skills/Individual Study
Courses for individual study in basic reading, writing and mathematics. Areas covered can include any basic skill that needs to be improved for college learning and/or career and personal growth.
0 Unit
20 Lecture hours
20 Lab hours

NBAS 010
College Refresher Math/Individual Study
Courses for individual study in basic mathematics. Areas to be covered can include whole numbers, fractions, decimals, percent, measurement, applications in consumer math, and other topics determined by individual student need.
0 Unit
40 Lab hours

NCHS 001
Health and Fitness
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. Students will also participate in specific activities that develop an individual’s level of physical fitness.
0 Unit
1 to 54 Lab hours

NCHS 002
Beginning Jujitsu: Self Defense for Adults
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.
0 Unit
48 Lecture hours

NCIT 002
Citizenship Preparation
This course will guide persons seeking United States Citizenship in the steps required to become a citizen. Students will prepare to take the citizenship examination and will receive assistance in completing the appropriate forms.
0 Unit
45 Lecture hours

NCOA 001
Painting for Older Adults
This course offers the older adult an individual approach to painting and creative arts. Topics can 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.
0 Unit
1 to 48 Lecture hours

NCOA 002
Music Workshop for the Third Age
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.
0 Unit
1 Lecture hours
1 Lab hours

NCOA 007
Chorus Singing for the Older Adult
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.
0 Unit
1 to 48 Lecture hours

NCOA 008
Computers Unlimited for Older Adults
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.
0 Unit
8 to 20 Lecture hours
8 to 20 Lab hours

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Hatha Yoga for Older Adults
This class uses active and passive movements which are adapted for older adults. Movements include stretching, relaxation, and breathing exercises. Students will learn repetitive skill building, weight bearing poses and become familiar with working together in rhythm.
0 Unit
8 to 24 Lecture hours

Physical Fitness for the Older Adult
This physical fitness class is designed for the older adult and offers instruction in movement to maintain and increase range of motion, build muscle strength, maintain coordination, flexibility and balance. Class topics include discussions on nutrition, the effects of aging, safety factors and memory skills.
0 Unit
1 to 48 Lecture hours

Current Topics for Older Adults
This course presents older adults with various topics for discussion and class activities based on the student’s individual interests and backgrounds. Older adults will explore international, national and local events and issues from a current and historical viewpoint.
0 Unit
1 to 24 Lecture hours

Tai Chi Chuan for Older Adults
This course introduces older adults to a Chinese health exercise which is neither vigorous nor strenuous. It is suitable for older adults who want to exercise to gain or maintain good health. It will strengthen the muscles and organs, relax the mind and body, improve blood circulation, and increase memory and concentration.
0 Unit
1 to 24 Lecture hours

Creative Writing for Older Adults
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.
0 Unit
1 to 24 Lecture hours

English as a Second Language
Entry level courses designed to provide instruction in basic skills in English and related subjects. Speaking, listening, reading, writing and comprehension skills included.
0 Unit
1 to 72 Lecture hours

ESL Beginning
This is a competency-based course that focuses on basic verbal communication within routine situations common in everyday life within an English-speaking setting. Emphasis is on communication within school, work, and community domains. Successful completion of this course will prepare students to enter NESL 016. This course is designed for language learners at levels below Rio Hondo College’s Credit ESL Program.
0 Unit
58.7 Lecture hours

ESL Intermediate Low
Prerequisite: ESL 013 or equivalent placement
This is a competency-based course that focuses on expanded verbal communication within routine situations common in English-speaking environments. Emphasis is on communication within school, work, and community domains combined with the introduction of academic English. Successful completion of this course will prepare students to enter NESL 017. This course is designed for language learners at levels below Rio Hondo College’s Credit ESL Program.
0 Unit
58.7 Lecture hours

ESL Intermediate High
Prerequisite: ESL 016 or equivalent placement
This is a competency-based course that builds upon the skills learned in NESL 016 and prepares English learners to comprehend and communicate in written and spoken English for a variety of audiences and purposes. Successful completion of this course will prepare students to enter NESL 018. This course is designed for language learners at levels below Rio Hondo College’s Credit ESL Program.
0 Unit
58.7 Lecture hours

ESL Advanced
Prerequisite: ESL 017 or equivalent placement
This is the highest level Non-credit ESL course. It focuses on advanced spoken and written communication within English-speaking school, work, and community domains in a variety of formal and informal contexts. This course is designed for language learners at levels below Rio Hondo College’s Credit ESL Program; however, upon its successful completion, it will prepare them for direct entry.
0 Unit
58.7 Lecture hours

ESL Multi-Level 1
This course focuses on preparing students to use English to achieve tasks within a variety of real-life situations such as a doctor’s office or a department store. Students are instructed to be able to listen, speak, read, and write in English in context-specific environments. This is an accelerated version of NESL 035 that is designed for students with some knowledge of the English language.
0 Unit
24 to 50 Lecture hours

ESL Multi-Level
This course focuses on preparing students to use English to achieve tasks within a variety of real-life situations such as a doctor’s office or a department store. Students are instructed to be able to listen, speak, read, and write in English in context-specific environments.
0 Unit
24 to 90 Lecture hours

Family Literacy
This course focuses on engendering reading and literacy as a fundamental component of a healthy, well-functioning family. The family-oriented assignments promote the seamless integration of reading across school and home boundaries.
0 Unit
1 to 72 Lecture hours

Green Building Basics & LEED
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 ben-
### NVOC 0013 Class A Concrete
This course is designed to teach the needs of Indentured Apprentices with the State of California who are interested in the concrete field within the carpentry industry. Modules cover the following topics: forming methods for flatwork, tilt-ups, wall forms, column forms, beams and deckling forms, stairs and ramps, foundations, walls, windows, welding, and bridge construction.

- **0 Unit**
- **140 Lecture hours**
- **140 Lab hours**

### NVOC 0014 Finish Carpentry
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the finishing field within the carpentry industry. Modules cover the following topics: hand and power tools, jobsite preparation, and hardwood installation. Students will learn how to install, strip, and plank hardwood flooring in the most basic applications.

- **0 Unit**
- **18 Lecture hours**

### NVOC 0016 Framing
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the framing field within the carpentry industry. Modules cover the following topics: wall framing, plates, wall layouts, structural connectors, bracing, aligning, floor layouts, floor systems, stair building and layouts, winders, curved stairs, building exteriors, balconies, bay windows, columns, pop-outs, trims, siding, roof systems, hips, gable roofing, dormers, rafter construction, metal framing, fasteners, metal trusses, and panelized roof systems.

- **0 Unit**
- **20 Lecture hours**
- **20 Lab hours**

### NVOC 0017 Lath/Drywall
This course is designed to teach the techniques and skills needed for freeform lathing. Skills such as proper layout, use of grids, proper tools, methods to bend reb on pencil rod, welding, cutting, holding and tying of lath. Hand tools are mandatory.

- **0 Unit**
- **18 Lecture hours**

### NVOC 0019 Tilt-Up
Students will be instructed in layout techniques for a typical tilt-up panel and the importance of 3-4-5 methods of squaring a panel. They also will learn how to identify certain openings and the location of finish floor lines and roof lines through blueprints.

- **0 Unit**
- **18 Lecture hours**

### NVOC 0020 Scaffolding
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the scaffolding field within the carpentry industry. Modules cover the following topics: safety procedures, regulations, industry rules, scaffold planning, worksite applications, welded frame/mobile tower scaffolds, welded frame/tower scaffolds.

- **0 Unit**
- **18 Lecture hours**
scaffold applications, tube and clamp assemblies and worksite applications, scaffolding systems, shoring, re-shoring, rigging, rigging safety, and estimating.

0 Unit
20 Lecture hours
20 Lab hours

NVOC 0021
Cabinet/Millwork
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the cabinetmaking field within the carpentry industry. Course topics include: applications of wood products, hand and power tool usage, material usage, layout/millwork, jigs/fixtures, architectural details, shop drawings, estimating, CAD/CAM and construction of a cabinet, along with current glues and abrasives.

0 Unit
140 Lecture hours
420 Lab hours

NVOC 0023
Health & Safety
This course provides basic First Aid/CPR Training in the performance of emergencies for conscious and unconscious victims, recognizing signs of a heart attack and the proper techniques for administering CPR.

These skills are presented for use on adults, children and infants. First Aid training deals with controlling bleeding, burns, sprains, strains, poisoning, broken bones and caring for victims of sudden illness. These classes meet or exceed California or Federal OSHA training requirements. American Red Cross I.D. cards will be issued upon successful completion of the course.

0 Unit
18 Lecture hours

NVOC 0024
Acoustical
This course is designed to expand on the usage of acoustical materials and products used in the acoustical industry. Upon the completion of this class the learner will have a working knowledge of glue up, concealed ceilings/walls and the usage of Compássso for ceilings and soffits. Hand tools are necessary.

0 Unit
18 Lecture hours

NVOC 0025
Blueprints
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the blueprint reading field within the carpentry industry. Course topics will include: basics of reading, understanding and visualizing the blueprint, terms, symbols and definitions from several trades will be incorporated into prints showing residential/commercial buildings, slopes, grades, and computer designs. Layout tools will be necessary.

0 Unit
20 Lecture hours
20 Lab hours

NVOC 0026
Computers
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the computer application field within the carpentry industry. Course topics will include: basic principles of computers, general computer usage, processing, spreadsheets, databases, and the world wide web. Lab sessions include individual computer use.

0 Unit
20 Lecture hours
20 Lab hours

NVOC 0027
Welding
This course provides an introduction to basic welding. Students will learn about the various welding machines as well as electrodes and their specific application. They also will be instructed in the proper and safe use of oxygen an acetylene torch. Demonstration and testing will be required.

0 Unit
18 Lecture hours

NVOC 0029
Effective Supervision Certificate Program
This course is designed for individuals promoted into supervisory positions. The class will assist employers who have promoted line employees with little or no formal supervision training, as well as those anticipating a career that includes supervising other individuals. Topics will focus on six areas comprised of basic supervisory skills and concepts. Students are provided with an overview of what is expected of an effective supervisor and what skills are required to successfully perform in that capacity. Real-life business situations are discussed and evaluated. Students take knowledge gained back to their respective work venues and conversely bring examples to the class for discussion.

0 Unit
18 Lecture hours

NVOC 005
Theatre Production Workshop
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.

0 Unit
18 Lecture hours
18 Lab hours

NVOC 008
Fundamentals of Law Enforcement/Individual Study
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.

0 Unit
1 to 500 Lab hours

NVOC 014
College Community Orchestra
This is an ongoing program designed for preparation for employment as musicians. Participants may perform with a symphony orchestra such as Rio Hondo Community College.

0 Unit
1 to 8 Lecture hours

NVOC 015
Practical Experience in Fire Suppression
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.

0 Unit
18 Lecture hours

NVOC 018
ACEDD-GIS Skills Development
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 CAD 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.

0 Unit
1 to 200 Lab hours
NVOC 039
Real Estate Finance
This course is designed to help the 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 filling out the loan application to closing the loan. The course details qualifying standards, disclosure requirements, and loan documents. This course is approved by the California Department of Real Estate as one of the required courses for the State Sanctioned Conditional Real Estate SalesPersons License.
0 Unit
1 to 48 Lecture hours

NVOC 040
Real Estate Principles
This is a prerequisite course for the real estate licensing examination. In this course students will learn information required for the acquisition of a California real estate license. Topics include the nature of real estate, the foundation of our property laws, land descriptions and measurements, how titles are held, acquisition and transfer, deeds, liens and encumbrances, elements of a contract, landlord and tenant law, real estate mathematics and financing. In addition, you will be introduced to the terminology and forms commonly used in everyday real estate transactions. This course is approved by the California Department of Real Estate as a State Sanctioned Pre-Licensing course.
0 Unit
1 to 48 Lecture hours

NVOC 041
Real Estate Appraisal
In this course students will learn the purpose and importance of appraisals, land values and their characteristics, the process of appraising, site analysis, and considerations. They will also obtain knowledge of construction methods, materials used in cost approaches, accrued depreciation analysis, income and expense analysis, capitalization theory, and techniques in the income approach method of appraising. This course is approved by the California Department of Real Estate as one of the electives for the State Sanctioned Conditional Real Estate Sales Persons License.
0 Unit
1 to 48 Lecture hours

NVOC 043
Conversational Spanish
This introductory class is designed for beginning Spanish speakers who are looking to learn Spanish for use in a workplace setting. This class will be of particular interest to supervisors and managers that oversee a workforce of predominantly Spanish speaking individuals. The focus is on learning how to speak rather than on grammar. The class will cover simple tenses – present, past, imperfect and future. Students will be asked to listen to Spanish radio, watch Spanish television, read Spanish newspaper and participate in Spanish conversations.
0 Unit
14 Lecture hours

NVOC 045
Intermediate Fabrication Processes
This is an introductory class designed to introduce students to welding techniques used in high volume production manufacturing applications. This class will focus on GMAW and GTAW for mild steel, stainless steel aluminum, and will include pulsed-arc applications for both processes. In addition, the student will be introduced to welding fixtures, welding positioners and other auxiliary welding equipment. Emphasis will be placed on shop safety and on developing proper working procedures.
0 Unit
1 to 36 Lecture hours
1 to 108 Lab hours

NVOC 046
Semi-Automatic Welding Processes
This is an intermediate level course designed to introduce students to wire-fed, semi-automatic welding processes for mass-production welding applications, i.e. Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Submerged Arc Welding (SAW). This course emphasizes 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.
0 Unit
1 to 18 Lecture hours
1 to 54 Lab hours

NVOC 047
Production Welding Techniques
This is an intermediate level course designed to provide the student with an understanding of welding techniques used in high volume production manufacturing applications. This class will focus on GMAW and GTAW for mild steel, stainless steel aluminum, and will include pulsed-arc applications for both processes. In addition, the student will be introduced to welding fixtures, welding positioners and other auxiliary welding equipment. Emphasis will be placed on shop safety and on developing proper working procedures.
0 Unit
1 to 18 Lecture hours
1 to 54 Lab hours

NVOC 048
Introduction to Fabrication Processes
This is a beginning level course designed to introduce students to various techniques, processes and technologies used in the fabrication industry. This course will develop skills necessary for translating dimensional information from a shop drawing or blueprint to metallic materials used for production of finished parts and assemblies. Topics covered in this class will include basic blueprint reading, measurement and measuring tools, layout, metal cutting, drilling and tapping, and metal forming. Emphasis will be placed on shop safety and safe and proper use of equipment, tools and materials.
0 Unit
1 to 18 Lecture hours
1 to 54 Lab hours

NVOC 049
Production Fabrication Processes
This course is designed to broaden the students’ skills and knowledge of metal fabrication techniques. This course will introduce students to basic hand tools and power tools commonly used in the metal fabrication industry. Topics covered in this class will include structural fabrication, tube bending, stair layout and construction, and fabrication of com-
NVOC 100
Basic Computer Skills Workshop for Healthcare Professionals
This course offers basic skills needed to perform tasks on computers and online. As the mandate for electronic medical records is implemented, incumbent medical workers will need to learn these basic computer skills to maintain their employment. Topics include computer hardware, operating systems, cloud computing, office software applications, security and ethical use of electronic data.
0 Unit
8 Lecture hours
8 Lab hours

NVOC 1011
Orientation/Safety
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the general trade safety within the carpentry industry. Course topics will include: Health and Safety Certifications, job safety, fall protection, powder actuated tools, confined space entry, scaffold training, rigging training, aerial lift training, and OSHA training. Certification can be earned in forklift, scaffold, American Red Cross/CPR and Ramset/Redhead low velocity powder actuated tools.
0 Unit
120 Lecture hours
120 Lab hours

NVOC 1012
Health/Safety
This course is designed to meet the needs of Indentured Apprentices with the State of California who are interested in the general trade safety field within the carpentry industry. Course topics will include: Health and Safety Certifications, job safety, fall protection, powder actuated tools, confined space entry, scaffold training, rigging training, aerial lift training, and OSHA training. Certification can be earned in forklift, scaffold, American Red Cross/CPR and Ramset/Redhead low velocity powder actuated tools.
0 Unit
112 Lecture hours
112 Lab hours

NVOC 138
Engineering Careers & Applications
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 technology. Topics will include the history of engineering, careers in engineering, ethics and responsibilities of the engineer, communicating and problem solving.
0 Unit
27 Lecture hours
36 Lab hours

NVOC 140
Civil Drafting Fundamentals
This course is for all students interested in the career field of Civil Design Drafting and Civil Engineering. This course includes 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.
0 Unit
36 Lecture hours
72 Lab hours

NVOC 150
AutoCAD for Basic CADD Applications
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.
0 Unit
54 Lecture hours
54 Lab hours

NVOC 170
MicroStation for Basic CADD Applications
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.
0 Unit
54 Lecture hours
54 Lab hours

NVOC 200
Intermediate AutoCAD for Design and Production
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.
0 Unit
45 Lecture hours
54 Lab hours

NVOC 241
Civil Engineering Drafting & Design
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 which includes 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).
0 Unit
36 Lecture hours
72 Lab hours

NVOC 245
Civil Engineering Design & Modeling
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.

0 Unit
36 Lecture hours
72 Lab hours

NVOC 250
Parametric Modeling 3D Applications for Mechanical Design

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.

0 Unit
54 Lecture hours
54 Lab hours

NVOC 260
Advanced Architecture Using Revit and 3D Software

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.

0 Unit
54 Lecture hours
54 Lab hours

NVOC 261
Revit for Advanced BIM Architectural, Structural and MEP Applications

Advanced BIM (Building Information Modeling) applications extend 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.

0 Unit
54 Lecture hours
54 Lab hours

NVOC 265
Pressure Piping Design

This course is for those students with CAD experience who are interested in the career field of pressure piping design engineering. This course presents the preparation of engineering detail drawings of piping systems for commercial, utilities and industrial plants. Included is information and work dealing with the location, installation, operation, and maintenance of pumps, steam turbines, compressors, tanks, heaters, coolers, cooling towers, condenser, reactors, boilers, chillers, heat exchangers and special equipment.

0 Unit
36 Lecture hours
72 Lab hours

NVOC 266
Pressure Piping Applications

This course is for all students with a basic piping design understanding interested in the career field of pressure piping design engineering. This course presents the advanced preparation of engineering detail drawings of piping systems for commercial, utilities and industrial plants. Included is advanced information and layout work dealing with the location, installation, operation of pumps, steam turbines, compressors, vertical vessels, horizontal vessels, tanks, heaters, coolers, cooling towers, condenser, reactors, boilers, chillers, heat exchangers and special equipment.

0 Unit
36 Lecture hours
72 Lab hours

NVOC 270
SolidWorks for 3D Modeling and Prototype Applications

This course presents an intensive study in 3D computer graphics and CADD (Computer Assisted Design and Drafting) utilizing the latest release of SolidWorks Software.

0 Unit
54 Lecture hours
54 Lab hours

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.
12 Administrators

**ADMINISTRATION**

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B.A., M.A., Azusa Pacific University

Pierson, Kenn  
Vice President, Academic Affairs  
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B.A., M.S., University of Southern California; Ph.D., Claremont Graduate University

Kummerman, Howard  
Dean, Institutional Research and Planning/Interim Executive Director  
Rio Hondo College Foundation  
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Dean, Student Affairs/Compliance Officer  
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**ASSISTANT DEAN**

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CAMPUS DIRECTORY

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BUILDING LEGEND

A Administration
AJ Administration of Justice
AJA Administration of Justice Annex
AT Applied Technology
ART Art
B Business
BB Black Box Theater

RS Bookstore
CI Campus Info
CP Central Plant
CR Central Receiving
CDC Child Development Center
CT Courts (tennis)
G Gymnasium
I L Building
LQ Lower Quad
LRC Learning Resource Center
M Music
MC Modular Classrooms
MR Maintenance
O Observatory

PE Information/Parking Booth
PF Physical Education
S Science and Math
SS Student Services
SU Student Union
UQ Upper Quad
W Wesley Memorial Theater
El Monte Education Center

3017 Tyler Avenue
El Monte, CA 91731
(626) 443-8932

Foothill Transit, Metro Bus Lines

Please visit the EMEC site for more information.

South Whittier Education Center

14307 E. Telegraph Road
Whittier, CA 90604
(562) 941-2356

Metro Bus Lines, Sunshine Shuttle

Please visit the SWEC site for more information.
Santa Fe Springs Regional Training Center

11400 Greenstone Avenue
Santa Fe Springs, CA 90670
(562) 941-4062

Please visit the Fire Academy site for more information.

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Santa Fe Springs, CA 90670
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