

RIO
HONDO
COLLEGE



RIO HONDO COLLEGE CATALOG 2017 - 2018

Volume LII

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.



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(562) 692-0921

www.riohondo.edu

2017-2018 Catalog

July 1, 2017 - June 30, 2018

Serving the Communities of:

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

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

President's Welcome



Congratulations on making one of the most important decisions in life by choosing to attend Rio Hondo College. On behalf of the Rio Hondo Community College District, it is a pleasure to welcome you to our hilltop campus where our faculty members, counselors, staff, and administrators are committed to helping you reach your educational and career goals.

Did you know Rio Hondo College is one of the top community colleges in the state for underrepresented minorities who transfer

to University of California campuses? Designated a Hispanic-Serving Institution? We were also named among the top 25 community colleges for Hispanic students nationwide. Our campus enrolls approximately 18,000 students each semester, offering 24 associate degrees for transfer that guarantee admission to California State Universities, a four-year bachelor's degree in automotive technology, 51 associate degrees, and 60 certificates. We are also noted for our Pathway to Law School Program, state-of-the-art career and technical training programs, and for our student-centered services for veterans, first-generation students, single parents, foster youth, students with disabilities, and more.

One of the tools we encourage you to use, as an educational guide, is the 2017-18 College Catalog. By becoming familiar with this Catalog as a new student, you will learn about the associate degrees leading to successful transfer, general education requirements and programs, and career certificates and courses. Another tool for success is AccessRIO, our student information and registration system that provides efficient online access to grades, financial aid information, library systems and many other College resources. In addition, the College offers scholarships, student health services, as well as free tutoring.

We urge you to take advantage of the Student Success services and programs offered through the Counseling Center, Center for Career and Re-Entry Services, 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!

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 NCAA-sized pool, renovated fields and tennis courts. The College also has a world-class soccer field and a six-lane synthetic track.

As Superintendent/President, I look forward to welcoming you to our Rio Hondo College campus.

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

Teresa Dreyfuss
Superintendent/President

Administrators

ADMINISTRATION

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Vice President, Student Services Henry Gee
Vice President, Finance & Business Yulian Ligioso

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Interim Executive Director Rio Hondo College
Foundation Howard Kummerman
Executive Dean, Counseling and
Student Equity Mike Munoz, Ed.D.
Executive Director, Human Resources Loy Nashua, J.D.

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Business and Contract Education Gita Runkle
Career & Technical Education/Instructional
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Communications & Languages Alice Mecom, Ed.D.
Educational Centers Yolanda Emerson
Interim, Health Science & Nursing Catherine Page
Kinesiology, Dance, and Athletics/Athletic Director Steve Hebert
Library & Instructional Support Jose Aguinaga
Mathematics & Sciences Vann Priest, Ph.D.
Public Safety Ron Coopman
Student Affairs Vacant

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Child Development Center, Interim Beth Brousseau
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Veterans Services Yvonne Gutierrez-Sandoval

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Fitness Center Kathy Pudelko
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Institutional Effectiveness Coordinator Lydia Gonzalez
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Student Learning Outcomes Adam Wetsman, J.D., Ph.D.
Transfer Center Jose Lara
Veterans Services Arely Castaneda
Weekend College Steve Hemenway
Weekend College Vik Hovsepian

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
 - 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
- Architecture/Civil/Engineering Technology
- 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
- Foster Care and Independent Living: (562) 908-3435
- 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
- Vocational Nursing
- Nurse Assistant Pre-Certification Training

Division of Kinesiology, Dance and Athletics

(562) 908-3409

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

Division of Library

(562) 908-3417

- Archives
- Circulation
- Library (562) 908-3417
- Production
- Reference
- Office of Student Success and Retention
- Online Education

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 Public Safety

(562) 463-7756

- Administration of Justice
- Advanced Officer Training
- Corrections
- Forensics
- Police Academy

(562) 941-4082

- Emergency Medical Technician
- Fire Academy
- Fire Technology
- Homeland Security Training Center
- Wildland Fire

Division of Student Affairs

(562) 908-3498

- 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) 463-3216
- TRIO/SSS (562) 463-3216
- Student Equity (562) 463-7066

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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Instructional Calendar 2017-2018

Summer 2017

Ten-Week Session (10-weeks)
.....Monday, June 5 – Friday, August 11

First Session (5-weeks)
.....Monday, June 5 – Friday, July 7

Evening Session (6-weeks)
.....Monday, June 19 – Friday, July 28

Late Start: Day and Evening (8-weeks)
.....Monday, June 19 – Friday, August 11
(Includes on-site, off site & online classes)

Second Session: Day Classes (5-weeks)
.....Monday, July 10 – Friday, August 11

Fall 2017

Semester Dates (16-weeks)
.....Saturday, August 19 - Saturday, December 9

Flex Day.....Friday, August 18
(Classes begin Saturday, August 19)

8-Week Modules
.....(Module A) Saturday, Aug. 19 – Friday, Oct. 13
.....(Module B) Saturday, Oct. 14 – Saturday, Dec. 9

Finals Week
.....Monday, December 4 – Saturday, December 9

Spring 2018

Intersession Dates (4-weeks)
.....Tuesday, January 2 - Thursday, January 25

Semester Dates (16-weeks)
.....Saturday, January 27 - Thursday, May 24

Flex Day.....Friday, January 26
(Classes begin Saturday, January 27)

Spring BreakMonday, March 26 - Friday, March 30
(No weekend classes Saturday, March 24)

8-Week Modules
.....(Module A) Saturday, Jan. 27 – Friday, March 23
.....(Module B) Saturday, March 31 – Thursday, May 24

Finals Week
.....Monday, May 21 – Thursday, May 24

Commencement.....Thursday, May 24

1 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 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. Rio Hondo 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 performance against faculty standards.
- This 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 and online at: <http://www.riohondo.edu/arts/front-page/programs-offered/arts-cultural-programs-events/art-gallery-showing/> Call (562) 908-3471 for more information.

Black Box Theater

The Black Box Theater is located behind the Wray Theater. 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.

Rio Café

The Rio Café, located on the first floor of the Student Union, is the place to stop and grab a bite on the run or stay and enjoy a delicious lunch with friends. The café offers a mix of healthy dining options, a mouth-watering grill featuring an express menu, ice cold beverages and a variety of sweet and salty treats. Enjoy your favorite Starbucks Lattes, Frappuccino® Blended Beverages, Coffees and Teas at our Coffee Bar. The café accepts: Cash, Credit, Apple Pay, Google Wallet and Android Pay. For hours and more information, visit: <https://riohondo.sodexomyway.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 educational centers. 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 second Thursday 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 150). Access is available by enrolling in KINA 130, a one-unit Kinesiology Activity Class. Additional information is listed in the Class Schedule and on the Fitness 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.

Rio Hondo Educational Center at Pico Rivera

The Rio Hondo Educational Center at Pico Rivera is one of Rio Hondo College's off-campus educational centers. It is located at 9426 Marjorie Street, Pico Rivera, CA 90660. There are classrooms and a computer resource lab. Regular college credit courses are offered at the Pico center, 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 every month. Continuing Education also offers non-credit courses. For more information about classes and services at the Pico center, please call (562) 222-1482.

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 educational centers 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 Monday 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.smogcheck.ca.gov for the eligibility conditions necessary to utilize a referee station. Depending on the State's schedule of operation, the Center

is open Monday through Friday from 8:00 a.m. to 5:00 p.m. by appointment only. Closed on State-determined holidays. Call (800) 622-7733 for hours of operation and an appointment.

Wray Theater

The Wray Theater, 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, film, and guest lectures, the theater 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. For more information, call (562) 908-3471 or visit our web site at: <http://www.riohondo.edu/arts/front-page/programs-offered/arts-cultural-programs-events/art-gallery-showing/>

SOUTH WHITTIER EDUCATIONAL CENTER

14307 E. Telegraph Road

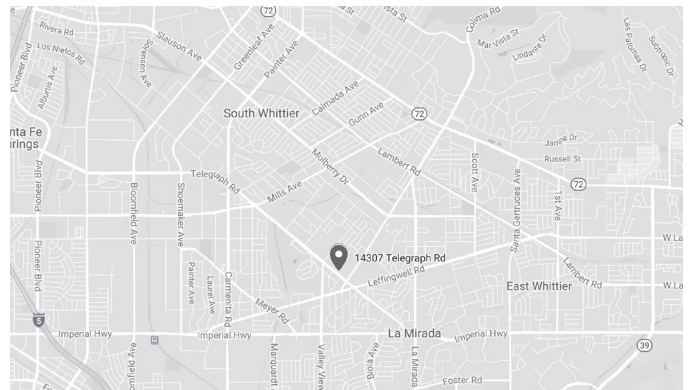
Whittier, CA 90604

Phone: 562-941-2356

Fax: 562-946-3817

DIRECTIONS:

1. Go northeast on Workman Mill Rd. toward College Dr.
2. Stay on Peck Rd.
3. Turn right onto Rooks Rd.
4. Merge onto I-605 S.
5. Take the Telegraph Rd exit, EXIT 12.
6. Turn left onto Telegraph Rd.
7. Make a U-turn onto Telegraph Rd.
8. SWEC is on the right.



EL MONTE EDUCATIONAL CENTER

3017 Tyler Ave.

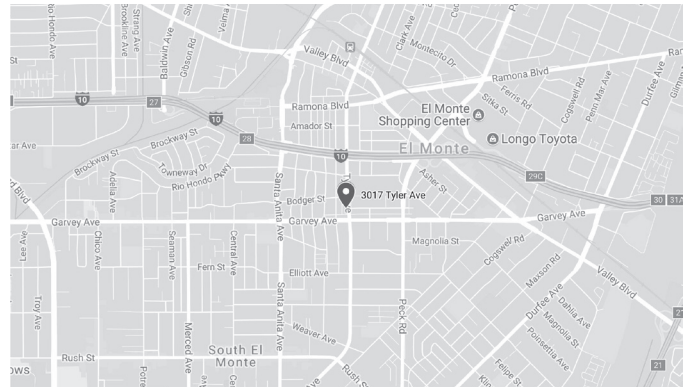
El Monte, CA 91731

Phone: 626-443-8932

Fax: 626-443-8997

DIRECTIONS:

1. Go northeast on Workman Mill Rd. toward College Dr.
2. Stay on Peck Rd.
3. Peck Rd turns into N Durfee Ave.
4. Turn left onto N Peck Rd/E. Rush St.
5. Take the 1st left onto E Rush St.
6. Take the 3rd right onto N Tyler Ave.
7. EMEC is on the left.



RIO HONDO EDUCATIONAL CENTER

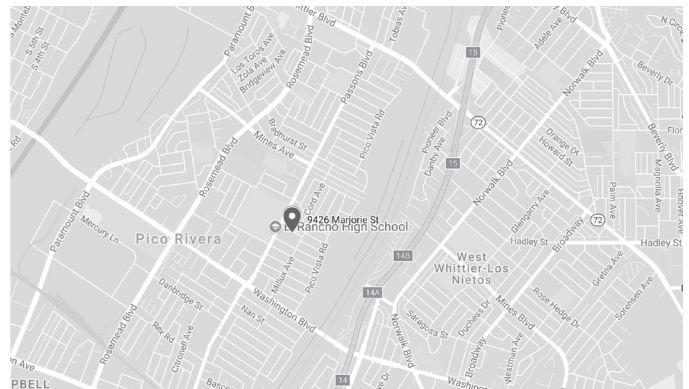
AT PICO RIVERA

9426 Marjorie Street,
Pico Rivera, CA 90660

Phone: 562-222-1482

DIRECTIONS:

1. Go northeast on Workman Mill Rd. toward College Dr.
2. Stay on Peck Rd.
3. Turn right onto Rooks Rd.
4. Merge onto I-605 S.
5. Take the Washington Blvd. West exit.
6. Turn right onto Washington Blvd.
7. Turn right on Parsons Blvd.
8. Turn right on Marjorie St.
9. The Pico Center is on the corner of Parsons and Marjorie.



SANTA FE SPRINGS TRAINING CENTER

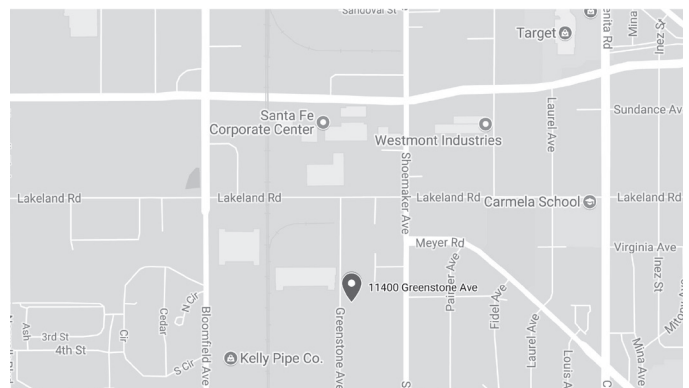
11400 Greenstone Ave.

Santa Fe Springs, CA 90670

Phone: 562-941-4082 extensions 21, 23, or 25

DIRECTIONS:

1. Go northeast on Workman Mill Rd. toward College Dr.
2. Go onto Peck Rd.
3. Turn right onto Rooks Rd.
4. Merge onto I-605 S.
5. Take the Telegraph Rd exit, EXIT 12.
6. Turn left onto Telegraph Rd.
7. Turn right onto Bloomfield Ave.
8. Bloomfield Ave. becomes Lakeland Rd.
9. Turn left to stay on Lakeland Rd.
10. Take the 1st right onto Greenstone Ave.
11. Academy is on the left.



2 College Policies & Procedures

Current Rio Hondo College Board Policies and Administrative Procedures can be found on the web site: www.riohondo.edu/board/policies.htm.

Academic Freedom Philosophy

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

Access to Student Records

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

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

Student Records

Privacy Act - All student records at 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).

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

Children on Campus

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

Computer Usage

Each computer user is responsible for the use of computing resources in an effective, efficient, and lawful manner.



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

Student Complaints Grievance Procedures

The District provides a prompt and equitable means of resolving student grievances and complaints. A grievance is an alleged wrongful act by a 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. Students are encouraged to follow the Rio Hondo College Complaint and Grievance process. Issues that are not resolved at the campus level may be presented to the State Chancellor's Office using their complaint process.

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 Dr. Jennifer Fernandez, Interim Dean Student Affairs, Student Services Building, 2nd Floor, Room SS204, (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

or

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

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 de oportunidad, sumisión de quejas, o para obtener una copia de los procedimientos del colegio sobre quejas sometidas, pueden ser dirigidas a:

Oficial de Cumplimiento del Distrito
salón SU201
(562) 908-3427
TDD (562) 908-3422.

El Distrito del Colegio Río Hondo reconoce su obligación de proveer accesibilidad al programa a todas las personas incapacitadas de una manera que no discrimine en el rendimiento de tales servicios. El colegio hace arreglos razonables para los estudiantes, trabajadores y miembros de la comunidad quienes pueden participar en las actividades del colegio.

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.

Registered Sex Offender Information

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

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

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

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

Sexual Harassment

Sexual Harassment is offensive, unwelcome sexual attention. Sexual harassment is a form of sex discrimination which violates Title VII of the Civil Rights Act of 1964 as amended, Title IX of the Education Amendments of 1972, California statutes, 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;
2. submission to, or rejection of, the conduct by the individual is used as a basis of employment or academic decisions affecting the individual;
3. the conduct has the purpose or effect of having a negative impact on the individual's work or academic performance, or of creating an intimidating, hostile or offensive work or educational environment; or
4. submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the community college.

This definition encompasses two kinds of sexual harassment.

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

Sexual harassment can consist of virtually any form or combination of verbal, physical, visual or environmental conduct. It need not be explicit, nor even specifically directed at the victim. Sexually harassing conduct can occur between people of the same or different genders. The standard for determining whether conduct constitutes sexual harassment is whether a reasonable person of the same gender as the victim would perceive the conduct as harassment based on sex.

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 subject matter of the class. A hostile environment can arise from an unwarranted focus on sexual topics or sexually suggestive statements in the classroom. An environment may be hostile if unwelcome sexual behavior is directed specifically at an individual or if the individual merely witnesses unlawful harassment in his or her immediate surroundings. The determination of whether an environment is hostile is based on the totality of the circumstances, including such factors as the frequency of the conduct, the severity of the conduct, whether the conduct is humiliating or physically threatening, and whether the conduct unreasonably interferes with an individual's learning or work.

If you believe that you are a victim of sexual harassment, contact the District Title IX Compliance Officer in room SU201, or (562) 908-3427 or TDD (562) 908-3422.

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. sometimiento al comportamiento se presenta como requisito o condición del empleo del

individuo, de la categoría o estado académico del individuo o de adelantamiento del individuo;

2. sometimiento al comportamiento, o rechazo del comportamiento, del hostigador se presenta como criterio de empleo o de decisiones académicas en cuanto al individuo;
3. el comportamiento tiene el intento de resultar en impacto negativo en el trabajo del individuo o en los estudios académicos del individuo, o tiene el intento de crear un ambiente de intimidación y hostilidad en el empleo o en los estudios; o
4. sometimiento al comportamiento, o rechazo del comportamiento, del hostigador se usa como criterio de cualquier decisión en cuanto al individuo y los beneficios o servicios, 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; flirteo o solicitudes mal recibidas; demandas de favores sexuales; abuso verbal, amenazas intimidación de tipo sexual; o sexismo, comentarios arrogantes que ponen en ridículo a un sexo, o que expresan actitud derogatoria contra un sexo.
2. **Físico:** contacto físico impropio o ofensivo, asalto, o impedimento físico del movimiento de una persona. Esto puede incluir, pero no se limita a, besando, caricias físicas, tocando íntimamente, agarrando a mano, pellizcando, mirando con lascivia, ojeando, pasando ligeramente por encima o impidiendo el paso de otra persona, silbando o haciendo ademanes o gesticulaciones sexuales.
3. **Visual o escrito:** mostrando, diseminando, o manifestando materia, visual o escrita, ofensiva y de sentido sexual. Esto puede incluir, pero no se limita a, carteles, caricaturas, diseños, dibujos, graffiti, materia para leer, gráficas en la computadora, y materia transmitida electrónicamente.
4. **Ambiente:** el ambiente de empleo o el ambiente académico que esté lleno de expresiones verbales de sentido sexual, insinuaciones, insultos o abusos verbales que no pertenecen al tema de la clase. Un ambiente hostil se puede realizar con enfoque impropio en temas sexuales o con comentario implícitamente sexual en la clase. Un ambiente puede ser hostil si el comportamiento sexual mal recibido es específicamente dirigido a un individuo o si el individuo solamente observa 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 menosprecia 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, Oficial de Título IX del Distrito, en el salón SU201, o de teléfono fuera del colegio, llame al número (562) 908-3427.

Sexual Misconduct Information and Title IX Compliance

OTHER MISCONDUCT OFFENSES (Will fall under TITLE IX when gender-based)

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

PRIVACY AND REPORTING:

The Director of Student Life & Leadership, Shaina Phillips, 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:

Shaina Phillips
Title IX Compliance Officer
sPhillips@rioehondo.edu

CONFIDENTIAL REPORTING:

If you want the details of the incident be kept confidential, you should speak with on-campus professional staff in the Student Health and Psychological Services Office 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 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,
- 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

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)



- receiving stolen District property or private property on campus.
- H. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or posting of a District.
- I. Committing sexual harassment as defined by law or by District policies and procedures.
- J. Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, sex, religion, age, national origin, disability, sexual orientation or any other status protected by law.
- K. Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyber bullying.
- L. Hazing, as defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by the college, which is likely to cause serious bodily danger, or personal degradation, or disgrace, resulting in physical or mental harm.
- M. Willful misconduct that results in injury or death to a student or to District personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
- N. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.
- O. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- P. Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
- Q. Unauthorized entry upon or use of District facilities.
- R. Lewd, indecent or obscene conduct on District-owned or controlled property, or at District sponsored or supervised functions.
- S. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District.
- T. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- U. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure.
- V. Knowingly accessing and without permission altering, damaging, deleting, destroying, or otherwise using any data, computer system or computer network in order to either (a) devise or execute any scheme or artifice to defraud, deceive or extort, or (b) wrongfully control or obtain money, property or data.
- W. Knowingly accessing and without permission taking, copying or making use of any data from a computer, computer system, or computer network, or taking or copying any supporting documentation, whether existing or residing internal or external to a computer, computer system or computer network.
- X. Knowingly and without permission using or causing the use of computer services.
- Y. Knowingly accessing and without permission adding, altering, damaging, deleting or destroying any data, computer software, or computer programs which reside or exist internal or external to a computer, computer system or computer network.
- Z. Knowingly and without permission disrupting or causing the disruption of computer services or denying or causing the denial of computer services to an authorized user of a computer system or computer network.
- AA. Knowingly and without permission providing or assisting in providing a means of accessing a computer, computer system or computer network in violation of this section.
- 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.

*The documentation for re-admittance shall be provided by a non-Rio Hondo College District California licensed mental health professional.

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 and Psychological Services
Rm SS230, ext. 3438

- 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)



3 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 or designee 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.

Student Classification

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

New Student: A student who has never enrolled in a credit course at any college, including Rio Hondo, or has only enrolled as a high school student.

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

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

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 are exceptional students and can benefit from advanced scholastic coursework. These students may only enroll in college level courses (degree applicable courses), and must meet prerequisites.



- **High School Enrichment Students**

High school students may enroll in classes for college credit. Permission to enroll must be obtained in advance from the high school and a parent or guardian. Interested high school students may obtain information from the Admissions webpage under High School Students, www.riohondo.edu/admissions/high-school-students/. Additional information may be obtained by calling or visiting the Admissions and Records Office. Enrichment students are limited to 11 units of non-remedial coursework.

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 nonresident 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 nonresident fees are provided in law: such as certificated public school employees, agricultural workers, military personnel and their dependents. If you feel that you might qualify for an exemption or have questions about residency, please contact the Admissions and Records Office.

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

The nonresident/international student fee of \$234.00 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.
 - c. The law does not distinguish between public and private high schools. There is no time limit on how far in the past the student might have attended a California high school.
 - d. The student must have graduated from a California high school or attained the equivalent thereof (e.g., a GED or a high school proficiency exam).
 - e. Except for nonimmigrant aliens, any nonresident student who meets the first two requirements shall be exempted from nonresident tuition even if he or she is a US citizen or lawful immigrant.
 - f. If the student has filed an application with the INS to legalize status, the student may already be eligible for resident fee status if the student has resided in California for more than one year and one day since the time of INS application. (See Title 5 Section 54045.)

6. Students who are nonimmigrant aliens (the most common being the F series student visas and B series visitor visas) are not eligible for this exemption. (A full description of nonimmigrant alien classifications may be found in paragraph 15 of subsection (a) of Section 1101 of Title 8 of the U.S. Code.) People who entered the country as nonimmigrant aliens but subsequently have gone out of status are not eligible for this exemption until they apply to INS to change their status to something other than nonimmigrant.

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 every semester who meet the requirements. All F-1 visa students must be accepted by the International Student Specialist before registering.

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

International students pay out of state fees which are subject to change without prior notice. Financial Aid is not available; students are expected to be financially independent. It is mandatory that all international students provide proof of health insurance coverage 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 (562) 463-7643.

Admissions Requirements for Overseas Students

- International Student Application
- Application processing fee of \$40.00 (non-refundable)
- Copy of Passport
- English Proficiency must be met by one of the following methods
 - English is the students primary language
 - TOEFL 45iBT
 - IELTS 5
 - iTep 3
- Bank Certification (verification on bank letterhead signed by a bank official showing minimum \$20,000.00 USD available to student)
- 18 years of age by the time the semester begins

Admissions Requirements for Transfer Students

- International Student Application
- Application processing fee of \$40.00 (non-refundable)
- Copy of Passport, Student Visa, I-94 and I-20 form
- English Proficiency must be met by one of the following methods:
 - College Level English Completed (official college transcripts must be submitted)
 - TOEFL 45iBT

- IELTS 5
- iTep 3
- Completion of appropriate level of English at an approved Language School (see list of institutions and minimum level required www.riohondo.edu/international-students)
- Bank Certification (verification on bank letterhead signed by a bank official showing minimum \$20,000.00 USD available to student)
- 18 years of age by the time the semester begins

Open Enrollment Policy

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

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

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

Dropping Classes: 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 website.

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

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

The student must withdraw from the class via Access Rio by the established deadline. Failure to follow through with the drop procedure 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 may drop a student from class for poor attendance, it is the student's responsibility to withdraw if the student is no longer attending the class.

There are three types of course withdrawal notations:

1. **Withdrawal without receiving a "W"** – A student who withdraws from a course before the published deadline to drop without a "W" (20% of course length) will receive no notation on their student record (transcript) for the dropped course. A student who withdraws from all classes prior to the "drop without a 'W'" deadline will no longer be classified as a continuing student for priority registration purposes.

2. **Withdrawal with a "W"** – A student who withdraws from class between 20% to 60% of the course length (after the drop without a "W" but before the drop deadline) will receive a "W" notation on their student record (transcript). The "W" is not used to calculate a student's grade point average (GPA) but may affect academic progress and result in progress probation/dismissal.

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

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 all regionally accredited colleges are required for evaluation towards a certificate, associate degree, or meeting general education requirements for transfer.

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

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.

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

Rio Hondo College uses Open CCC for application processing. To submit an application for admissions log on to www.riohondo.edu and click the "Apply Now" button.

Step 2: Assessment

All new non-exempt students ("non-exempt" refers to students seeking an AA-T/AS-T degree, a certificate

or transfer) are required to complete an Assessment, Orientation, and Educational Plan (prior to registration for classes). A hold may be placed on a student's registration if they fail to complete their Assessment, Orientation and Educational Plan. The purpose of Assessment test 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 Assessment, Orientation and Educational Plan process is an effort by Rio Hondo College to provide the student with the finest academic advisement and counseling possible. The assessment is available by appointment throughout each semester and during the summer. Non-exempt students who do not complete their Assessment, Orientation and Educational Plan will receive an immediate hold on their registration. For more information, please contact the Assessment Office at (562) 463-7226 or visit LR-130.

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/assessment-center and click "Services Offered" 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 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 prior to registration and before classes begin. For information and/or to make an appointment, please call (562) 908-3410 or go to the Counseling Office located in 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.

Clearing a Prerequisite

If a student believes he/she has met a prerequisite at another institution, he/she can see a counselor for a prerequisite clearance. Students must provide evidence of meeting the prerequisite 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 nonresident tuition fees of \$234.00 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.

Scholarships

A variety of scholarships are available to Rio Hondo College students. For more information, contact the Rio Hondo College Foundation at (562) 908-3476 or go online to www.riohondo.edu/foundation 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 failed to pay a proper financial obligation due to the district or a college. (BP 5035)

Enrollment/Fees Refunds

Resident Students

Resident students who drop by 10% of the course will receive a refund. Refunds are automatic and do not require any paperwork to be submitted. 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. Last day to drop with a refund deadline may vary according to the course begin and end dates. See Important Dates and Deadlines on the Admissions and Records webpage for specific dates.

Nonresident Students

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

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

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



4 Support Services and Special Academic Programs

Academic Advisement

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

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

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

The CalWORKs (California Work Opportunity and Responsibility to Kids) Program is a specialized program for families with children who are receiving temporary cash assistance from the Department of Public Social Services (DPSS). The purpose of the CalWORKs program at Rio Hondo College is to help students achieve their educational goals while preparing them for the workforce so that students can transition off of cash assistance and become self-sufficient.

The CalWORKs program provides services and resources to support the unique needs of students to further their educational success by providing:

- Personal counseling
- Academic and career advising
- Case management and progress monitoring to ensure compliance with DPSS guidelines
- Work study opportunities in various departments on campus
- Priority Registration
- No cost books and supplies
- Job development and preparation
- Free child care referrals for class and study time
- Transportation assistance
- Laptop loans
- Referrals to on and off campus resources



For more information, please come by our office located in the Student Services building, Room SS220, contact our staff at (562) 463-7311, or visit our website at <http://www.riohondo.edu/calworks/>.

Career Counseling

Center for Career & Re-entry Services 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/>.

Child Development Center/ Pre-School Laboratory

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).

Computer Resources

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)
- El Monte Educational Center
- First Year Success Center (LR101)
- Learning Assistance Center (LR114)
- Library (2nd Floor)
- Math and Science Center (S300)
- PASS Program (LR105)
- Rio Hondo Educational Center at Pico Rivera
- Santa Fe Springs Regional Training Center
- South Whittier Educational Center
- Student Services Building (1st Floor)
- Transfer Center (SS250)

Continuing Education & Contract Education Classes

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 an 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.

For information, please refer to the Continuing Education Class Schedule, our web page or call (562) 908-3469.

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 eligible students with a disability. Students with a disability, including but not limited to students with a physical, learning or psychological disability, students with a visual impairment, acquired brain injury, Attention Deficit Hyperactivity Disorder (ADHD), an Autism Spectrum Disorder, or Intellectual Disability may be eligible for services..

Services include 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 Opportunity 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/Educational Planning
- Priority Registration
- Academic Probation Interventions
- Textbook Services
- Educational Supplies
- Laptop, Voice Recorder & Calculator Loans
- Cap & Gown for Graduates
- Meal Vouchers

Cooperative Agencies Resources for Education (CARE) is a supplemental component of (EOP&S) that specifically assists students who are single head of households with young children, by offering supportive services so they are able to acquire the education, training and marketable skills needed to transition from welfare-dependency to employment and eventual self-sufficiency for their families. In addition to EOP&S services, CARE students also receive:

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

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

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 the Financial Aid 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. Loan workshops are required for all students applying for a student loan.

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 no outstanding debt to the college, are enrolled in a minimum of 6 units, and have a GPA of 2.0 or above may apply at the Student Life & Leadership Department in the Student Union, during the first 2 weeks of the fall and spring semesters only. Loans are on a first-come, 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.

Cal Grants – the California Student Aid Commission awards Cal grants. Students must be legal residents of California and have financial need. To be considered, students must complete a Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov or California Dream Act Application at www.csac.ca.gov, and submit a GPA Verification form by March 2 or September 2.

- **Cal Grant B** - This grant helps students with living expenses, books, supplies, transportation and other non-direct educational expenses.
- **Cal Grant C** - These awards help vocational students with tuition and supplies. Recipients must be in a program of study that is between four months and two years duration.

Board of Governors Waiver - The Board of Governors Waiver (BOGW) helps to pay the per unit enrollment fee for all eligible applicants. If you request a fee waiver, you will be asked to sign a Fee Waiver Application under the penalty of perjury that all statements and information are correct. You must be a California resident in order to apply for these waivers.

- **BOGW A** - If you or your family receive Temporary Assistance for Needy Families (TANF), Supplemental Security Income (SSI), or General Assistance/General Relief, you may qualify for BOGW A. You may also qualify if you are the dependent of a deceased or disabled veteran. Apply in the Financial Aid Office.
- **BOGW B** - You may be eligible for a fee waiver if you have certification from the appropriate agency that you are a dependent of a deceased or disabled veteran or a recipient or a dependent of a recipient of the Congressional Medal of Honor or a dependent of an individual killed in September 11th terrorist attacks or a dependent of a deceased law enforcement officer or fire protection personnel.
- **BOGW C** - You have qualified for federal or state financial aid, such as a Federal Pell Grant or Cal Grant based on the FAFSA application results.

Loss of Eligibility for Board of Governors Waiver

A student shall become ineligible for a Board of Governors Waiver (BOGW) if the student is placed on academic or progress probation, or any combination thereof, for two consecutive primary terms.

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

Appeal Loss of Board of Governors Waiver

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

Satisfactory Academic Progress Policy (SAP)

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

Satisfactory Academic Progress is evaluated in three areas:

1. **Grade Point Average Requirement** - Student's pursuing a course of study leading to an A.A degree, A.S degree, Baccalaureate degree, certificate, or transfer program must maintain at least a 2.00 cumulative GPA average.
2. **Unit Requirement/Pace of Progression** - Students are required to successfully complete a minimum of 67% of units attempted each semester. Classes with grades of A, B, C, D, or P are considered units successfully completed. Classes with grades of F, I, NP, IP, or W will count as attempted units, but not as successfully completed units.
3. **Maximum Time Frame Requirement** - Students enrolled in a degree or certificate program may receive financial aid for a maximum of 150% of the length of that program. Degree programs at Rio Hondo College typically require a 60 unit length for completion. Thus, students may receive financial aid for up to 90 attempted units (60 units x 150% = 90 units). Students pursuing a Baccalaureate degree from Rio Hondo College may receive financial aid for up to 180 attempted units. Once unit maximum is reached, students are ineligible to receive further financial aid. Grades of F, I, NP, IP or W are considered attempted units and included in Maximum Time Frame unit calculation.

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

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

Satisfactory Academic Progress Appeals

Students suspended from receiving financial aid can regain financial aid eligibility by meeting minimum SAP requirements (2.0 GPA, complete 67% of attempted units, not exceed 90 units) for two consecutive semesters, without financial aid and enrolling in a least 6 units each semester. Once a student has completed two consecutive semesters, meeting the minimum SAP requirements, he or she must submit a SAP Appeal Request form to the Financial Aid Office. Students ineligible for financial aid due to maximum time frame units must submit a SAP Appeal Request Form, along with a full educational plan and typed statement indicating why he or she attempted 90 units or more (180 units for Baccalaureate degree).

For extenuating circumstances, a student may be eligible to appeal for reinstatement of financial aid, without completing two consecutive semesters and meeting minimum SAP requirements. Reasons a student may be eligible for an Extenuating Circumstances SAP Appeal include: serious illness, injury or medical condition requiring doctor's care, death of an immediate family member, victim of a crime or unexpected disaster or other extenuating circumstances beyond the student's control.

SAP appeals are reviewed by the SAP Appeals Committee, for approval or denial, based upon the student's individual circumstances. All decisions are final and there is no higher appeal.

First Year Success Center

The First Year Success Center is a place to enhance the academic success of all first year students at Rio Hondo College through a network of student support services. Students meet with a counselor to develop an Educational Plan and receive assistance with AccessRIO navigation, registering for classes and applying for Financial Aid. It is located in room LR101 in the Learning Resource Center.

Guardian Scholars

The Guardian Scholars Program is a comprehensive student support program that serves current and former foster youth pursuing higher education. The Guardian Scholars Program at Rio Hondo College is dedicated to providing services and support that meet the personal and academic needs of our students in successfully transitioning into adulthood, obtaining a degree/certificate and/or transferring to a four-year university. It is located on the third floor of the Student Services Building in room SS307.

Honors Transfer Program

The Rio Hondo College Honors Transfer Program is designed to meet the needs of students who seek a challenging educational experience that goes beyond the regular degree program.

The Honors Transfer Program incorporates a more in-depth investigation of topics. Many honors classes are kept intentionally small to facilitate the discussion/seminar rather than lecture format. A reduced class size also encourages a more collaborative learning experience allowing students to interact more freely with each other and the faculty members who teach these courses.

Rio Hondo College has signed honors transfer agreements with UCLA, UC Riverside, UC Irvine, UC Santa Cruz, CSU Long Beach, San Diego State, CSU Fullerton, CSU Stanislaus, Chapman University, Pomona College, Pitzer

College, Occidental College, La Sierra University, Loyola Marymount, Whittier College, Pacific University (Oregon) and Whitman College (Washington).

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, ASL, or foreign language classes that require a lab.

Nursing Simulation Center

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

Pre-School Laboratory

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 Skills Lab is located on the first floor of the Learning Resource Center in LR118. While the lab is used primarily for READ 021L and READ 022L students to supplement their lectures in READ 021 and 022, it is open to any student who might need help with a reading assignment from another class.

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, and 201 courses. Students must attend a Writing Center Orientation that takes place the first week of each semester. Students should check their class schedule for their registered lab 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 requests assistance with writing for any subject. The student receives one-on-one assistance from an English teacher. Schedule an appointment online at www.riohondo.edu/wrc or drop by LR126A.

Library

The Rio Hondo College Library is the research center of the College. Occupying the second floor of the Learning Resource Center, the library offers a full range of books, periodicals, online databases, e-books, and streaming videos in support of the college curriculum, as well as for general enrichment. Computer workstations, ADA-compliant computers, wireless access, laptops and a self-service copy/print center are also available.

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

Circulation Services

The circulation desk at the entrance to the library serves as the first point of student service. Library staff help:

- Activate your library privileges
- Check out books, laptops and a limited number of high-demand course textbooks
- Loan audiovisual equipment to faculty and staff, and fill requests for campus signage.

Reference Services

Because of the ever-expanding variety and range of available information, students today must learn the critical thinking and information competency skills required to optimize the use of research resources. Librarian faculty at the reference desk teach these skills through:

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

For much more information about library services, including the online catalog and research guides, please contact a reference librarian at (562) 908-3484 or check the library's website 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 "My Online Orientation" is 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 My Online Orientation button.

The PASS Program

The PASS Program (Personal and Academic Support Services) is a federally-funded TRiO Program, through Student Support Services, which prepares low-income and/or disabled students for graduation or transfer into four-year colleges and universities.

Services are free to eligible students and include:

- Educational advisement
- Transfer and career information and support
- Tutoring services
- Priority registration
- Student success workshops
- Educational and cultural activities
- Financial aid and scholarship information
- Cash-aid stipends

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

Pathway to Law School

The Pathway to Law School program is for underrepresented first-generation college students interested in learning more about careers in the legal field and entry to law school. The initiative is designed to enhance opportunities and advancement in the legal profession for diverse populations. Ideally, students will spend two years at Rio Hondo College then transfer to any accredited undergraduate institution to complete their bachelor's degree and then be considered for a priority admissions review to the six participating law schools.

Students will receive:

- Individual counseling and mentoring
- Exposure to careers in law
- Networking and learning opportunities
- Membership to the Rio Hondo College Pre-Law Society
- LSAT Test prep support
- Priority admissions review at participating law schools
- Law school application fee waived

Please visit the Pathway to Law School web page for the list of participating law schools and course requirements. The program is located in the Administration Building, room A203.

Puente Project

The Puente Project is a national-award winning program that has helped tens of thousands of educationally disadvantaged students who enroll in four-year colleges and universities, earn degrees, and return to the community as leaders and mentors to future generations. Puente is a one-year program that combines accelerated instruction in English, intensive academic counseling, and mentoring. The Puente Project office is located in the Administration Building, Room A203. For more information, visit the Puente web page <http://www.riohondo.edu/puente/>.

Student Health and Psychological Services

Student Health and Psychological Services helps keep students physically and emotionally healthy so they can perform at their best. Professionals available include 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 for accidents and other emergencies
- Appointments with a Registered Nurse
- TB Tests
- Flu Shots
- Pregnancy Tests
- Vision Test
- Hearing Tests
- Sick room available if needed
- Over-the-counter medications for minor illnesses available in the vending machine for a nominal fee. Located in the 2nd fl. SS bldg.
- Blood pressure checks, height and weight measurement
- Blood Tests
- HIV Testing
- Free STD Testing (Whittier Health Center)
- Resources, Assessments, and referral to low cost services in the community

Psychological Services include:

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

- Individual Counseling
- Group Counseling

- Crisis Intervention
- Stress Management
- Consultations and referrals

Student Health and Psychological Services is located in the Student Services Building, room SS230. For more information, visit the Student Health and Psychological Services web page at www.riohondo.edu/student-health-services.

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

Transfer Center

The 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.

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. The Veterans Service Center (VSC) is a one-stop center that offers veteran's counseling, certifications, financial aid advising, tutoring, and other valuable resources. Rio Hondo College cooperates with the Veterans Administration and with the California State Bureau of Vocational Rehabilitation in helping veterans and their dependents to obtain the education necessary to realize their academic and vocational goals. Rio Hondo College has been approved for the training of veterans and eligible dependents. Veterans and dependents are required to comply with Veteran Regulations Sections 21.4135, 21.4235 and 21.4277 in 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. Monthly attendance reporting is required of veterans and dependents. Additions, drops, withdrawals and last day of attendance MUST BE REPORTED AT ONCE.

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

Weekend College

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

5 Student Life & Leadership

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 a weekly student produced award-winning publication that has attained Congressional recognition for its excellence in print, digital, and television broadcast journalism. *La Cima* is the college's magazine. *El Paisano* serves as a training opportunity for prospective students interested in journalism, mass media, communications, public relations, and broadcasting with theory and hands-on production skills. Students interested can view student work at: www.elpaisanonewspaper.com.

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 (CCCCAA).

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

Male or female students who wish to become members of a team should check the class schedule online at: www.rioondo.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:

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. 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 or marijuana at any college function including regional or state conferences, regardless of the age of those participating. Anyone who appears under the influence of alcoholic beverages or marijuana shall be subject to disciplinary action by the conference and 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.



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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 instructor to obtain missed materials or information on completion of all missed assignments.

Academic Dishonesty

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

Definition of Cheating

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

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

Definition of Plagiarism

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

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

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

Other Specific Examples of Academic Dishonesty

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

Academic Dishonesty and its Consequences

- Faculty members have the right to choose whether or not to pursue suspected cases of plagiarism and cheating.
- When addressing plagiarism or cheating with reasonable evidence, the faculty member should meet with the student to discuss the concern. The student shall have the opportunity to share their side of the story and explain their behavior.
- Faculty members may consult with their Division Dean or Dean of Student Affairs when determining whether academic dishonesty has occurred.
- In situations where cheating or plagiarism has occurred, the faculty member is to determine the academic consequence in compliance with Education Code, and board policy and procedures, which prohibit dropping a student from a course. Faculty members shall inform students

of the grade penalty that will be assessed. The consequences may be any of the following options:

- 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, and report the violation to the Dean of Student Affairs. All pertinent information such as exams, plagiarized sources, and/or other possible evidence should be attached and submitted with the form.
- Students will meet with the Dean of Student Affairs and receive due process; students have the right to grieve an action they feel violates their student rights.
- The Dean of Student Affairs will address the behavior reasonably through the procedures outlined in AP 5520.
- The Student Affairs Office will maintain records related to violations of academic dishonesty and other violations of the college Standards of Conduct policy.

Academic Honors

Dean's List – Dean's List certificates are awarded in the fall and spring semesters to all students whose semester 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:

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

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

The following symbols are not used in calculating GPA:

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

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 website (www.rio.hondo.edu/admissions/important-dates-and-deadlines); nor to request a letter grade for previously completed courses in which they earned a Pass "P."

I : Incomplete – An incomplete grade, "I," may be assigned for academic work not completed for unforeseeable emergencies and justifiable reasons at the end of the term. The condition for removal of the "I" shall be stated by the instructor in a written record. This record shall contain the conditions for removal of the "I" and the grade assigned in lieu of its removal (**IA, IB, IC, ID, IE, IPP, INP**). This record must be given to the student with a copy on file with the registrar until the "I" is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated or when the time limit for completing the work has passed.

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

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

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

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

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

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) 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.
7. 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) when his/her grade-point average in three consecutive semesters is less than 2.00 in all units attempted or when 50% or more of all units attempted have entries of "W" and "NP." Before reinstatement to the college, the student must meet with a counselor.

Notice – Students will be notified by 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 Success.

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

Student learning outcomes (SLOs) are developed by faculty and assessed on an annual basis in order to improve teaching and student learning. All SLOs are listed in course syllabi so students are aware of them at the beginning of each term. Rio Hondo College maintains a database of all assessment data and reports. An SLO Committee, chaired by the SLO Coordinator, meets monthly to review all matters relating to SLOs. More information about SLOs can be found at www.riohondo.edu/slo/.

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:

Working Hours/Week	Units
None	12 – 16
10	10 – 11
20	7 – 9
30	3 – 6
30+	1 – 3

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

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

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.

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.

AP credit may be granted for Advanced Placement tests which have been satisfactorily passed with a score of 3, 4, or 5. See the College Credit for Advanced Placement section on the pages that follow for a list of accepted tests.

CLEP credit may be granted for College Level Examination Program tests in selected areas. See the College Level Examination Program section on the pages that follow for a list of accepted tests.

IB: International Baccalaureate credit may be granted for the International Baccalaureate Higher Level Examinations with scores of 5, 6, or 7. Official IB scores must be sent to the Admissions and Records Office. See the International Baccalaureate section on the pages that follow for a list of accepted tests.

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 (which will not count as units in residence). The student's transcript will denote credit earned by credit by examination.

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 in residence 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./A.S. or GE patterns. 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./A.S. general education (GE) and/or major requirements.

EXAM	RHC AA/AS (MAJOR AND/OR GE) Score of 3 or better for subject area unless otherwise indicated	CSU GE	CSU - UNITS EARNED TOWARD TRANSFER	IGETC	UC - UNITS EARNED TOWARD TRANSFER
Art History	ART 105, 106 6 semester units	Area C1 or C2 3 semester units	6 semester units	Area 3A or 3B 3 semester units	8 quarter/5.3 semester units
Art (Studio-2D Design)	N/A	N/A	3 semester units	N/A	8 quarter/5.3 semester units**
Art (Studio-3D Design)	N/A	N/A	3 semester units	N/A	8 quarter/5.3 semester units**
Art (Studio-Drawing)	N/A	N/A	3 semester units	N/A	8 quarter/5.3 semester units**
AP STUDIO ARTS LIMITATIONS					**Maximum credit 8 quarter/5.3 semester units for all studio arts exams
Biology	BIOL 101 4 semester units	Area B2 and B3 4 semester units	6 semester units	Area 5B and 5C 4 semester units	8 quarter/5.3 semester units
Calculus AB	Communication & Analytical Thinking 3 semester units Score of 4 or 5 - MATH 190 4 semester units	Area B4 3 semester units	3 semester units*	Area 2A 3 semester units	4 quarter/2.7 semester units**
Calculus BC	Communication & Analytical Thinking 3 Semester Units Score of 4 or 5 - MATH 190, 191 8 semester units	Area B4 3 semester units	6 semester units*	Area 2A 3 semester units	8 quarter/5.3 semester units**
AP CALCULUS EXAM LIMITATIONS			*Only one exam may be used toward transfer		**Maximum credit 8 quarter/5.3 semester units for both
Chemistry	Score of 3 - Chemistry 120 Score of 4 or 5 - Chemistry 130 5 Semester units	Areas B1 and B3 4 semester units	6 semester units	Area 5B and 5C 4 semester units	8 quarter/5.3 semester units
Chinese Language & Culture	Humanities 3 Semester Units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Computer Science A	N/A	N/A	3 semester units**	N/A	2 quarter/1.3 semester units***
Computer Science AB	N/A	N/A	6 semester units**	N/A	4 quarter/2.7 semester units***
AP COMPUTER SCIENCE EXAM LIMITATIONS			*Only one exam may be used toward transfer		***Maximum 4 quarter/2.7 semester units for both
Economics - Macroeconomics	Social & Behavioral Science 3 semester units Score of 4 or 5 - ECON 101	Area D2 3 semester units	3 semester units	Area 4B 3 semester units	4 quarter/2.7 semester units
Economics - Microeconomics	Social & Behavioral Science 3 semester units Score of 4 or 5 - ECON 102	Area D2 3 semester units	3 semester units	Area 4B 3 semester units	4 quarter/2.7 semester units
English - Language & Composition	ENGL 101 3.5 semester units	Area A2 3 semester units	6 semester units	Area 1A 3 semester units	8 quarter/5.3 semester units*
English - Literature & Composition	ENGL 101, LIT 102 6.5 semester units	Area A2 and C2 6 semester units	6 semester units	Area 1A or 3B 3 semester units	8 quarter units/5.3 semester units*
AP ENGLISH EXAM LIMITATIONS					*8 quarter/5.3 semester units maximum for both
Environmental Science	Natural Science w/Lab 4 semester units	Area B2 and B3 (if taken prior to Fall 2009) or Area B1 and B3 (regardless of when taken) 4 semester units	4 semester units	Area 5A and 5C 3 semester units	4 quarter/2.7 semester units
French Language & Culture	Humanities 3 Semester Units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
French Literature	Humanities 3 Semester Units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units

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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.

EXAM	RHC AA/AS (MAJOR AND/OR GE) Score of 3 or better for subject area unless otherwise indicated	CSU GE	CSU - UNITS EARNED TOWARD TRANSFER	IGETC	UC - UNITS EARNED TOWARD TRANSFER
German Language & Culture	Humanities 3 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Government & Politics - Comparative	Social & Behavioral Science 3 semester units	Area D8 3 semester units	3 semester units	Area 4H 3 semester units	4 quarter/2.7 semester units
Government and Politics - U.S.	POLS 110 3 semester units	Area D8 and US-2* 3 semester units	3 semester units	Area 4H 3 semester units	4 quarter/2.7 semester units
		<i>*Does not fulfill California Government requirement</i>	<i>Student can satisfy the requirement after transfer</i>		
History - European	Social & Behavioral Science or Humanities 3 semester units	Area C2 or D6 3 semester units	6 semester units	Area 3B or 4F 3 semester units	8 quarter/5.3 semester units
History - U.S.	HIST 143, 144 6 semester units	Area C2 or D6 and US-1 3 semester units	6 semester units	Area 3B or 4F 3 semester units	8 quarter/5.3 semester units
History - World	Social & Behavioral Science or Humanities 3 semester units	Area C2 or D6 3 semester units	6 semester units	Area 3B or 4F 3 semester units	8 quarter/5.3 semester units
Human Geography	Social & Behavioral Science 3 semester units	Area D5 3 semester units	3 semester units	Area 4E 3 semester units	4 quarter/2.7 semester units
Italian Language & Culture	Humanities 3 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Japanese Language & Culture	Humanities 3 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Latin	Humanities 3 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	4 quarter/2.7 semester units
Latin - Vergil	Humanities 3 semester units	Area C2 (if taken prior to Fall 2012) 3 semester units	3 semester units	Area 3B and 6A 3 semester units	4 quarter/2.7 semester units
Latin - Literature	Humanities 3 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	4 quarter/2.7 semester units
Music Theory	Fine Arts 3 semester units	Area C1 (if taken prior to Fall 2009) 3 semester units	6 semester units	N/A	8 quarter/5.3 semester units
Physics B	Natural Science w/Lab 4 semester units	B1 and B3 (if taken prior to Fall 2013) 4 semester units*	6 semester units*	Area 5A and 5C 4 semester units	8 quarter/5.3 semester units**
Physics 1	Natural Science w/ Lab 4 semester units	B1 and B3 4 semester units*	4 semester units*	Area 5A and 5C 4 semester units	8 quarter/5.3 semester units
Physics 2	Natural Science w/ Lab 4 semester units	B1 and B3 4 semester units*	4 semester units*	Area 5A and 5C 4 semester units	8 quarter/5.3 semester units
Physics C - Mechanics	Natural Science w/Lab 4 semester units	Area B1 and B3 4 semester units*	4 semester units*	Area 5A and 5C 3 semester units	4 quarter/2.7 semester units**
Physics C - Electricity/Magnetism	Natural Science w/Lab 4 semester units	Area B1 and B3 4 semester units*	4 semester units*	Area 5A and 5C 3 semester units	4 quarter/2.7 semester units**
AP PHYSICS EXAM LIMITATIONS			<i>*Maximum 4 semester units toward GE and 6 semester units toward transfer</i>		<i>**Maximum 8 quarter/5.3 semester units for all physics exams</i>
Psychology	Social & Behavioral Science 3 semester units Score of 4 or 5 - PSY 101	Area D9 3 semester units	3 semester units	Area 4I 3 semester units	4 quarter/2.7 semester units
Seminar	N/A	N/A	3 semester units	N/A	N/A
Spanish Language & Culture	SPAN 101, 102 8 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Spanish Literature & Culture	SPAN 201 4 semester units	Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
Statistics	MATH 130 4 semester units	Area B4 3 semester units	3 semester units	Area 2 3 semester units	4 quarter/2.7 semester units

Credit by External Examination

College Level Examination Program (CLEP)

Rio Hondo College will award CLEP credit toward the Associate Degree and transfer to the CSU system accordingly. UC does not accept CLEP exams. Course credit cannot be granted if it duplicates 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.

CLEP EXAM	PASSING SCORE FOR CSU CREDIT	MIN. SEM. UNITS EARNED FOR ADMISSION	CSU-GE AREA/ CERTIFICATION UNITS	RIO HONDO GE AREA CREDIT	PASSING SCORE FOR RIO HONDO CREDIT	RIO HONDO EQUIVALENT COURSE (FOR ASSOCIATE DEGREE)	RIO HONDO SEMESTER UNITS AWARDED
American Government	50	3 units	D8 3 units	Social/Behavioral Sciences	50	NA	3 units
American Literature	50	3 units	C2 3 units	Humanities	50	LIT 112A/B	6 units
Analyzing and Interpreting Literature	50	3 units	C2 3 units	Humanities	50	LIT 102	3 units
Biology	50	3 units	B2 3 units	Natural Sciences	50	NA	3 units
Calculus	50	3 units	B4 3 units	Language & Rationality	50	NA	3 units
Chemistry	50	3 units	B1 3 units	Natural Sciences	50	NA	3 units
College Algebra	50	3 units	B4 3 units	Language & Rationality	50	NA	3 units
College Algebra-Trigonometry	50	3 units	B4 3 units	Language & Rationality	50	NA	3 units
College Comp.	NA	NA	NA	Language & Rationality	50	ENGL 101	3.5 units
College Comp. Modular	NA	NA	NA	Language & Rationality	50	ENGL 101	3.5 units
English Comp. (no essay)	50	NA	NA	Language & Rationality	50	ENGL 101 (if taken before July '10)	3.5 units
English Comp. (with essay)	50	NA	NA	Language & Rationality	50	ENGL 101 (if taken before July '10)	3.5 units
English Literature	50	3 units	C2 (if taken before F'11) 3 units	Humanities	50	LIT 146A/B	6 units
Financial Accounting	50	3 units	NA	NA	50	ACCT 101	4 units
French Level I	50	6 units	NA	Humanities	80	FR 101/102	8 units

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CLEP EXAM	PASSING SCORE FOR CSU CREDIT	MIN. SEM. UNITS EARNED FOR ADMISSION	CSU-GE AREA/ CERTIFICATION UNITS	RIO HONDO GE AREA CREDIT	PASSING SCORE FOR RIO HONDO CREDIT	RIO HONDO EQUIVALENT COURSE (FOR ASSOCIATE DEGREE)	RIO HONDO SEMESTER UNITS AWARDED
French Level II	59	12 units (if taken prior to F'15) 9 units (if taken F'15 or after)	C2 3 units	Humanities	80	FR 101/102/201	12 units
Freshman College Composition	50	NA	NA	Language & Rationality	50	ENGL 101 (if taken before July '10)	3.5 units
German Level I	50	6 units	NA	NA	NA	NA	NA
German Level II	60	12 units (if taken prior to F'15) 9 units (if taken F'15 or after)	C2 3 units	Humanities	60	NA	3 units
History, US I	50	3 units	D6+US-1 3 units	Social/Behavioral Sciences	50	NA	3 units
History, US II	50	3 units	D6+US-1 3 units	Social/Behavioral Sciences	50	NA	3 units
Human Growth & Development	50	3 units	E 3 units	Social/Behavioral Sciences	50	NA	3 units
Humanities	50	3 units	C2 3 units	Humanities	50	NA	3 units
Information Systems & Comp. Applications	50	3 units	NA	NA	50	CIT 101	3 units
Intro to Educ. Psychology	50	3 units	NA	NA	NA	NA	NA
Introductory Business Law	50	3 units	NA	NA	50	BUSL 110	3 units
Introductory Psychology	50	3 units	D9 3 units	Social/Behavioral Sciences	50	NA	3 units
Introductory Sociology	50	3 units	D0 3 units	Social/Behavioral Sciences	50	NA	3 units

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CLEP EXAM	PASSING SCORE FOR CSU CREDIT	MIN. SEM. UNITS EARNED FOR ADMISSION	CSU-GE AREA/ CERTIFICATION UNITS	RIO HONDO GE AREA CREDIT	PASSING SCORE FOR RIO HONDO CREDIT	RIO HONDO EQUIVALENT COURSE (FOR ASSOCIATE DEGREE)	RIO HONDO SEMESTER UNITS AWARDED
Natural Sciences	50	3 units	B1 or B2 3 units	Natural Sciences	50	NA	3 units
Pre-Calculus	50	3 units	B4 3 units	Language & Rationality	50	NA	3 units
Principles of Accounting	50	3 units	NA	NA	NA	NA	NA
Principles of Macroeconomics	50	3 units	D2 3 units	Social/Behavioral Sciences	50	NA	3 units
Principles of Microeconomics	50	3 units	D2 3 units	Social/Behavioral Sciences	50	NA	3 units
Principles of Management	50	3 units	NA	NA	50	MGMT 150	3 units
Principles of Marketing	50	3 units	NA	NA	50	MRKT 170	3 units
Spanish Level I	50	6 units	NA	Humanities	50	SPAN 101/102	8 units
Spanish Level II	63	12 units (if taken prior to F'15) 9 units (if taken F'15 or after)	C2 3 units	Humanities	63	SPAN 101/102/201	12 units
Trigonometry	50	3 units	B4 (if taken prior to F'06) 3 units	Language & Rationality	50	NA	3 units
Western Civilization I	50	3 units	C2 or D6 3 units	Humanities or S/B Sciences	50	NA	3 units
Western Civilization II	50	3 units	D6 3 units	Social/Behavioral Sciences	50	NA	3 units

RHC: 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 Associate degree.

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

IGETC: CLEP exams cannot be used to certify IGETC.

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

Credit by External Examination International Baccalaureate (IB)

EXAM	RHC AA GE Area Credit Score of 5 or better	CSU GE Score of 5 or better, unless noted otherwise	CSU - UNITS EARNED TOWARD TRANSFER	IGETC	UC - UNITS EARNED TOWARD TRANSFER
IB Biology HL	Natural Science 3 semester units Clearance for BIOL 111L or 120L	Area B2 3 semester units	6 semester units	Area 5B 3 semester units	8 quarter/5.3 semester units
IB Chemistry HL	Natural Science 3 semester units	Area B1 3 semester units	6 semester units	Area 5A 3 semester units	8 quarter/5.3 semester units
IB Economics HL	Social/Behavioral Sciences 3 semester units	Area D2 3 semester units	6 semester units	Area 4B 3 semester units	8 quarter/5.3 semester units
IB Geography HL	Social/Behavioral Sciences 3 semester units	Area D5 3 semester units	6 semester units	Area 4E 3 semester units	8 quarter/5.3 semester units
IB History (any region) HL	Humanities or Social/Behavioral Sciences 3 semester units	Area C2 or D6 3 semester units	6 semester units	Area 3B or 4F 3 semester units	8 quarter/5.3 semester units
IB Language A - Lit. HL	Humanities 3 semester units	Score of 4 or better Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
IB Language A - Lang. & Lit. HL	Humanities 3 semester units	Score of 4 or better Area C2 3 semester units	6 semester units	Area 3B and 6A 3 semester units	8 quarter/5.3 semester units
IB Language A1 (any language) HL	Humanities 3 Semester Units	Score of 4 or better Area C2 (* F'13) 3 semester units	6 semester units	Area 3B 3 semester units	8 quarter/5.3 semester units
IB Language A2 (any language) HL	Humanities 3 semester units	Score of 4 or better Area C2 (* F'13) 3 semester units	6 semester units	Area 3B 3 semester units	8 quarter/5.3 semester units
IB Language B (any language) HL	Humanities 3 semester units	Score of 4 or better N/A	6 semester units	Area 6A 3 semester units	8 quarter/5.3 semester units
IB Mathematics HL	Language & Rationality 3 semester units	Score of 4 or better Area B4 3 semester units	6 semester units	Area 2A 3 semester units	8 quarter/5.3 semester units
IB Physics HL	Natural Science 3 semester units	Area B1 3 semester units	6 semester units	Area 5A 3 semester units	8 quarter/5.3 semester units
IB Psychology HL	Social/Behavioral Science 3 semester units	Area D9 3 semester units	3 semester units	Area 4I 3 semester units	8 quarter/5.3 semester units
IB Theatre HL	Fine Arts 3 semester units	Score of 4 or better Area C1 3 semester units	6 semester units	Area 3A 3 semester units	8 quarter/5.3 semester units

*if taken prior to

7 Degree & Certificate Guidelines

Degree Programs

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

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

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

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

General Education Exceptions – Those students who have been awarded a bachelor's degree from a regionally 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 for additional information.

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 whether they are comparable to Rio Hondo courses, are from a regionally accredited institution, are taken for credit or a letter grade, and are degree-applicable at the originating institution.

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

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

The Associate of Arts or Associate of Science degree 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 semester units of CSU-transferable coursework with a minimum overall GPA of 2.0. A minimum of 18 semester units in the major must be completed with a grade of "C" or better in each course (or with a "P" if the course was taken on a Pass/No Pass basis and the "P" is equal to a "C" or higher). Students are required to complete either the CSU GE pattern or IGETC pattern along with 12 units in residence. There are no additional graduation requirements for an AA-T or AS-T degree.

Students transferring to a CSU campus that deems the AA-T or AS-T as similar to the transfer major will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is designated a "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or other institution that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

Associate in Science Degree for Transfer (AS-T)

AS-T subject areas include:

- Administration of Justice
- Biology
- Business Administration
- Chemistry
- Early Childhood Education
- Mathematics
- Physics

Associate in Arts Degree for Transfer (AA-T)

AA- T subject areas include:

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

Associate Degree for Transfer - Reciprocity Policy

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

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 or multiple measures assessment
- ii. Credit ("P" grade) earned in READ 023
- iii. 2 or 4 year degree from a regionally accredited institution

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)
- iii. Students earning a "C" or better in freshman composition courses (3 or more semester/4 or more quarter units) from regionally accredited U.S. colleges and universities.
- iv. Advanced Placement examination scores of 3, 4, or 5 on either of the following exams: AP English Language & Composition or English Literature & Composition.
- v. 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 (B-STEM Intermediate Algebra, formerly titled 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 one of the following exams: AP Calculus AB, AP Calculus BC, or AP Statistics.
- d. CLEP examination scores of 50 or higher on one of the following exams: Calculus, College Algebra, College Algebra-Trig, and Trigonometry

3. *Physical Education-Minimum 2 classes.*

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

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

HIST 143, 143H, 144, 144H, 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
BIOL 101, 105 & 105L, 111 & 111L, 112, 120 & 120L
CHEM 110, 120, 130
GEOG 101 & 101L
GEOL 150 & 151
PHY 120, 150, 160, 211, 212, 213

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

ANTH 102, 103, 104, 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 110, 111, 125, 125H, 130
PHIL 128, 128H
POLS 110, 110H, 125, 128, 128H, 130, 135, 140, 150
PSY 101, 101H, 112, 114
SOC 101, 101H, 102, 105, 110, 114, 116, 120, 127, 148
SPCH 150

7. *Humanities*

A. Fine Arts – Minimum 3 units:

ART 101, 104, 105, 105H, 106, 106H, 107, 108, 109, 110, 112, 113, 115, 120, 130, 135, 140, 179
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, 130
JAPN 101, 102
LATN 101, 102
LIT 102, 102H, 112A, 112AH, 112B, 112BH, 114, 114H, 117, 117H, 130, 130H, 140, 140H, 141, 142, 142H, 144A, 144B, 145, 145H, 146A, 146AH, 146B, 146BH, 147, 148, 149

MSCM 128
PHIL 101, 101H, 120, 124, 126, 128, 128H, 135, 140
POLS 128, 128H
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, 120, 125, 135
ENGL 125, 201, 201H
LIB 101
MATH 130, 130H, 140, 160, 170, 175, 180, 190,
190H, 191, 250, 260, 270
PHIL 110, 110H, 112, 112H, 115
PSY 190
SPCH 100, 101, 101H, 140
READ 101
VOCB 101

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

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

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

Multiple Majors/Second Associate Degrees

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

Catalog Rights

A student may elect to meet the graduation requirements in effect at the time of entrance 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 exception to the Director of Admissions and Records for consideration.

Graduation

Students planning to graduate should file a "petition for graduation" during the semester in which they plan to graduate. Applications are available online on the Admissions and Records webpage. Deadlines for filing graduation petitions are available on the Rio Hondo website, under the Admissions/Graduation Information link. Please note that Rio Hondo College hosts a commencement ceremony in the spring semester of each year.

Certificate Programs

Certificate programs are designed for students interested in developing advanced levels of proficiency in special occupational subject areas. A student may elect to meet the Certificate of Achievement, Certificate of Skill Proficiency, or Career Certificate requirements in effect at the time of entrance or at the time of graduation provided that 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 program and complete at least one required course for the certificate at Rio Hondo College.

Certificate of Achievement

The Certificate of Achievement is designed to prepare students for entry-level employment in a vocational area. This certificate is awarded through Admissions and Records and will be posted on the student's transcripts.

Upon completion of required Certificate of Achievement courses, students must file an application with the Admissions and Records Office. Deadlines for filing a Certificate of Achievement application are available on the Rio Hondo College website.

Certificate of Skill Proficiency

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

Career Certificate

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

Exceptions to Graduation/ Certificate of Achievement Requirements

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



8 Transfer

Transfer Programs

Students whose goal is to transfer to a four-year institution should identify 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."

Educational Planning for Transfer

Each four-year institution has its own basic pattern of lower-division requirements regarding both general education and specific majors. These requirements vary from college to college and often change from year to year. 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 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 complete their comprehensive educational plan with a counselor.

Impacted Campuses & Programs

The term impacted, when applied to a campus and/or program, means that more qualified applicants applied than can be accepted. Consequently, there are special requirements and selection procedures for admission. Students intending to transfer should consult with a counselor and visit the transfer center to request the most current 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, major, and admission requirements.

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

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

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

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

CSU 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 general education 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 3 units 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.

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.calstate.edu/apply. Applications to impacted programs must be filed during the priority-filing period. Applications should be filed as early as possible to ensure priority consideration.

CSU Application Filing Periods

Students are encouraged to attend an application workshop before beginning the application process. Remember that 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



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 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, 140
- A2: Written Communication
ENGL 101
- A3: Critical Thinking
ENGL 201, 201H
PHIL 110, 110H, 112, 112H, 115
READ 101
SPCH 140

AREA B: Scientific Inquiry and Quantitative Reasoning:

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

B1: Physical Science

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

B2: Life Science

- ANTH 101, 101H, 101L*
- BIOL 101*, 105, 105L*, 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 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)

- ART 101, 104, 105, 105H, 106, 106H, 107, 108, 109, 110, 112, 113, 115, 120, 121, 130, 135, 140
- 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, 130
- JAPN 101, 102
- LATN 101, 102
- LIT 102, 102H, 112A, 112AH, 112B, 112BH, 114, 114H, 117, 117H, 130, 130H, 140, 140H, 141, 142, 142H, 144A, 144B, 145, 145H, 146A, 146AH, 146B, 146BH, 147, 148, 149
- PHIL 101, 101H, 120, 124, 126, 128, 128H, 135, 140, POLS 128, 128H
- SPAN 101, 102, 130, 131, 201, 201H, 202
- SPCH 130, 132

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

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

HIGHLY RECOMMENDED: All CSU campuses have a graduation requirement in U.S. History, Constitution and American Ideals. Students may be certified as having completed this requirement at 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 (3 units minimum) from the following:

- ANTH 110
- CD 106
- COUN 101, 151
- DD 214 (see counselor for details)
- EDEV 101
- HUSR 123
- KIN 191, 192, 196
- PSY 112, 121
- 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 (UC) 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 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 coursework 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 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. The application filing period is typically September 1-30th of the year prior to transfer for Fall admission. For further information meet with a counselor in the Transfer Center.

UC Application

Applications for admission to the UC system are available online at www.universityofcalifornia.edu/apply.

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

UC Application Filing Periods

Students are encouraged to attend an application workshop before beginning the application process. Remember that 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

*subject to campus availability

All UC campuses accept applicants for fall admission. To determine which UC campuses accept 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; it is not recommended for certain majors and colleges.

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

Area 1: ENGLISH COMMUNICATION

CSU: 3 courses required, one from each group below

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

1A – English Composition

One course of 3 semester/4 quarter units

ENGL 101

1B –Critical Thinking

One course of 3 semester/4 quarter units

ENGL 201 or 201H, PHIL 110, 110H

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

SPCH 100, 101, 101H, 140

Area 2: MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING

One course: 3 semester/4 quarter units

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

3A: ARTS (3 units minimum):

ART 104, 105, 105H, 106, 106H, 107, 108, 109, 110, 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, 130

JAPN 102

LATN 102

LIT 102, 102H, 112A, 112AH, 112B, 112BH, 114, 114H

117, 117H, 130, 130H, 140, 140H, 141, 142, 142H,

144A, 144B, 145, 145H, 146A, 146AH, 146B, 146BH,

147, 148, 149

PHIL 101, 101H, 120, 124, 126, 128, 128H, 135, 140,

POLS 128, 128H

SPAN 102, 201, 201H, 202

Area 4: SOCIAL & BEHAVIORAL SCIENCES

At least 3 courses from at least two disciplines - 9 semester/12 quarter units

ANTH 102, 102H, 103, 104, 110, 125

CD 106, 208

CHST 101, 146, 148, 150

ECON 101, 101H, 102, 102H, 106, 135

GEOG 102, 103

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

HUM 110, 111, 125, 125H, 130

PHIL 128, 128H

POLS 110, 110H, 125, 128, 128H, 130, 135, 140, 150

PSY 101, 101H, 112, 114, 170, 200,

SOC 101, 101H, 102, 105, 110, 114, 116, 120, 127, 148

SPCH 150

Area 5: PHYSICAL & BIOLOGICAL SCIENCES

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

5A: PHYSICAL SCIENCES (One course minimum):

ASTR 110, 110H, 112*

CHEM 110*, 120*, 130*, 140*, 230*, 231*

GEOG 101, 101L*

GEOL 150, 151*

PHY 120*+, 150*+, 160*+, 211*+, 212*+, 213*+

5B: BIOLOGICAL SCIENCES (One course minimum):

ANTH 101, 101H, 101L*

BIOL 101*, 105, 105L*, 111, 111L*, 120, 120L*,

200*, 201*, 201, 226*

PSY 210, 210H

5C: LABORATORY ACTIVITY: This requirement may be met by completing a lab course that corresponds to a lecture course found above in 5A or 5B with *symbol.

+ Indicates that UC course credit may be limited. Please consult the catalog course description for additional information.

6: LANGUAGE OTHER THAN ENGLISH

(UC REQUIREMENT ONLY)

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

ASL 149

CHIN 101, 102

FR 101, 102, 201, 202

JAPN 101, 102

LATN 101, 102

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 proficiency in a language other than English. Partial Certification is permitted if the student has completed all but two courses in the pattern.

For a complete listing of courses and their approval dates, students may log on to www.assist.org.

Transferring to Independent Colleges & Universities

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

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

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.

Transfer Web Sites

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

- **Articulation:**
<http://www.assist.org>
<http://www.riohondo.edu/Counseling-Center/Articulation>
- **California Colleges:**
<http://www.californiacolleges.edu>
- **California Independent Colleges and Universities:**
<http://www.aiccu.edu>
- **California State University:**
<http://www.calstate.edu/apply>
- **California Virtual College:**
<http://www.cvc.edu/>
- **RHC Transfer Center:**
<http://www.riohondo.edu/students/transfercenter>
- **University of California:**
<http://www.universityofcalifornia.edu>
- **UC Transfer:**
<http://uctransfer.universityofcalifornia.edu>



9 Degree & Certificate Programs

Occasionally offerings will not be available in a particular program. Please contact the division for more information about availability.

Associate of Arts Degree Associate of Science Degree

Division of Arts & Cultural Programs

Animation	72
Art	77
Graphic Design	130
Music	151
Photography	167
Theatre Arts	179

Division of Behavioral & Social Sciences

Chicano Studies	89
Child Development	90
Drug Studies	105
Social Work	175

Division of Business

Accounting	64
Business Administration	85
Business Marketing	87
Computer Information Technology/ Computer Systems	97
Computer Information Technology/ Microcomputer Specialist	98
Computer Information Technology/ Network Administrator	99
Computer Information Technology/ System Administrator	100
International Business	139
Logistics Management	146
Management and Supervision	147
Small Business Management	173

Division of Career & Technical Education

Advanced Engine Performance	68
Alternative Energy Technology	70
Alternative Fuels/Advanced Transportation Technology	71
Architecture	75
Architectural Design & Drawing	76
Automotive Technology	80
Civil Design Technology	93
Electric Vehicle and Fuel Cell Technology Technician ..	108
Electronics Technology	109
Engineering Design Drafting	113
Heavy Equipment Technology	131
Honda Professional Automotive Career Training Program Specialization (PACT)	135
Welding Technology	180

Division of Communications & Languages

English and Literature	115
Mass Communications/Mass Media	148
Mass Communication/Print Media Specialization	149

Division of Health Science & Nursing

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Nursing	162-165

Division of Kinesiology, Dance and Athletics

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Division of Mathematics & Sciences

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Environmental Science	116
Environmental Technology	117

Division of Public Safety

Administration of Justice	66
Corrections	102
Fire Technology	120
Wildland Fire Technology	181

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Emphasis in Social Behavior and Self-Development	125
Emphasis in Social Sciences	126
Emphasis in Science and Mathematics	128

Certificate of Achievement

Division of Arts & Cultural Programs

Entertainment Art - Digital Characters	73
Entertainment Art - Digital Environments	73

Division of Behavioral & Social Sciences

Child Development	91
Drug Studies	105
Preschool Teacher	92

Division of Business

Accounting	64
Business Marketing	87
Computer Information Technology/ Computer Systems	97
Computer Information Technology/ Microcomputer Specialist	98
Computer Information Technology Network Administrator	99
Computer Information Technology System Administrator	100
Computerized Accounting Systems	65
International Business	139
Logistics Management	146
Management and Supervision	147
Retail Management	172
Small Business/Entrepreneurialism	173

Division of Career & Technical Education

Advanced Engine Performance.....	68
Advanced Engine Performance-Technician.....	69
Alternative Energy Technology.....	70
Alternative Fuels & Advanced Transportation Technology.....	71
Architectural Design & Drawing -Technician.....	76
Brake and Suspension Service.....	81
Civil Design & Drawing.....	95
Civil Design Technology.....	94
Diesel Fuel and Emission Systems.....	81
Drafting/Technical Drawing.....	104
Electric Vehicle & Fuel Cell Technology Technician.....	108
Electronics Technology.....	109
Engine Repair.....	81
Engineering Design Drafting Technician.....	113
Fuel Injection Systems.....	81
General Automotive Service.....	80
General Service Technician.....	82
Geographic Information Systems.....	129
Heavy Equipment Diesel Engines Technician.....	131
Heavy Equipment Electronics Technician.....	132
Heavy Equipment General Service Technician.....	132
Heavy Equipment Hydraulics Technician.....	132
Heavy Equipment Powertrains Technician.....	131
Heavy Equipment Service Technician.....	133
Honda/Acura Air Conditioning and Supplemental Restraint Systems.....	136
Honda/Acura Brakes, Suspension, and Electronic Systems.....	136
Honda/Acura Engine Repair and Chassis Electrical Systems.....	136
Honda/Acura Power Train and Transmission Systems.....	137
Safety, Comfort and Convenience Systems.....	82
Surveying, Mapping & Drawing.....	95
Transmission Service.....	82
Welding Technology.....	180

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Mass Communication/Print Media Specialization.....	149

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Division of Kinesiology, Dance, and Athletics

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Division of Public Safety

Fire Technology.....	120
Wildland Fire Technology.....	181

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Network Technician.....	101

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Division of Public Safety

Basic Police Training.....	169
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Certificate of Skill Proficiency**Division of Arts and Cultural Programs**

Game Development.....	123
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Division of Business

Income Tax Preparer.....	65
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Division of Behavioral & Social Sciences

Human Services.....	139
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Division of Public Safety

Emergency Medical Technician.....	111
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Business Administration for Transfer.....	86
Chemistry for Transfer.....	88
Early Childhood Education for Transfer.....	106
Mathematics for Transfer.....	150
Physics for Transfer.....	168

Associate in Arts Degree for Transfer (AA-T)

Anthropology for Transfer.....	74
Art History for Transfer.....	79
Art/Studio Arts for Transfer.....	78
Communication Studies for Transfer.....	96
Economics for Transfer.....	107
Elementary Teacher Education for Transfer.....	110
English for Transfer.....	114
History for Transfer.....	134
Journalism for Transfer.....	140
Kinesiology for Transfer.....	141
Philosophy for Transfer.....	166
Political Science for Transfer.....	170
Psychology for Transfer.....	171
Social Justice Studies for Transfer.....	174
Sociology for Transfer.....	176
Spanish for Transfer.....	177
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**Courses in the degree/certificate are not necessarily listed in the order of enrollment. See prerequisites.*

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Civil Drawing and Pressure Piping	183
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Rio Hondo College Majors & Programs

AA Associate of Arts Degree

AA-T Associate in Arts for Transfer Degree

AS Associate of Science Degree

AS-T Associate in Science for Transfer Degree

Rio Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Accounting			•		•
Administration of Justice			•		
Administration of Justice for Transfer				•	
Advanced Engine Performance			•		•
Advanced Engine Performance-Technician					•
Alternative Energy Technology			•		•
Alternative Fuels & Advanced Transportation Technology			•		•
Animation	•				
Anthropology for Transfer		•			
Architecture			•		
Architectural Design & Drawing			•		
Architectural Design & Drawing-Technician					•
Art	•				
Art History for Transfer		•			
Associate Degree Nursing			•		
Automotive Technology			•		
Biology			•		
Biology for Transfer				•	
Brake and Suspension Service					•
Business Administration	•				
Business Administration for Transfer				•	
Business Marketing			•		•
Chemistry for Transfer				•	
Chicano Studies	•				
Child Development			•		•
Civil Design Technology			•		•
Civil Design & Drawing					•
Coaching of Sports					•
Communication Studies for Transfer		•			
Computer Information Technology: Computer Systems			•		•
Computer Information Technology: Microcomputer Specialist			•		•
Computer Information Technology: Network Administrator			•		•
Computer Information Technology: System Administrator			•		•
Computerized Accounting Systems					•
Corrections			•		
CSU GE					•
Dance	•				
Diesel Fuel & Emission Systems					•
Drug Studies			•		•
Early Childhood Education for Transfer				•	
Economics for Transfer		•			
Electric Vehicle and Fuel Cell Technology Technician			•		•
Electronics Technology			•		•
Elementary Teacher Education for Transfer		•			
Engine Repair					•
Engineering			•		
Engineering Design Drafting			•		
Engineering Design Drafting - Technician					•
English and Literature	•				
English for Transfer		•			
Entertainment Art - Digital Characters					•
Entertainment Art - Digital Environments					•
Environmental Science			•		
Environmental Technology			•		•
Field Technician					•
Fire Technology			•		•
Fitness Specialist					•

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

Rio Hondo College Majors & Programs (Continued)

Rio Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Fuel Injection Systems					•
General Automotive Service					•
General Service Technician					•
General Studies (<i>Emphasis in Arts and Human Expression</i>)	•				
General Studies (<i>Emphasis in Science and Mathematics</i>)			•		
General Studies (<i>Emphasis in Social Behavior and Self-Development</i>)	•				
General Studies (<i>Emphasis in Social Sciences</i>)	•				
Geographic Information Systems					•
Graphic Design			•		
Health and Safety					•
Heavy Equipment Technology			•		•
Heavy Equipment Diesel Engines Technician					•
Heavy Equipment Electronics Technician					•
Heavy Equipment General Service Technician					•
Heavy Equipment Hydraulics Technician					•
Heavy Equipment Powertrains Technician					•
Heavy Equipment Service Technician					•
History for Transfer		•			
Honda Professional Career Training Program Specialization (PACT)			•		
Honda/Acura Air Conditioning and Supplemental Restraint Systems					•
Honda/Acura Brakes, Suspension, and Electronic Systems					•
Honda/Acura Engine Repair and Chassis Electrical Systems					•
Honda/Acura Power Train and Transmission Systems					•
IGETC					•
International Business			•		•
Journalism for Transfer		•			
Kinesiology for Transfer		•			
Logistics Management			•		•
Management and Supervision			•		•
Mass Communications: Mass Media			•		•
Mass Communications: Print Media Specialization			•		•
Mathematics for Transfer				•	
Music	•				
Philosophy for Transfer		•			
Photography			•		
Physics for Transfer				•	
Political Science for Transfer		•			
Preschool Teacher					•
Psychology for Transfer		•			
Retail Management					•
Safety, Comfort and Convenience Systems					•
Small Business Management			•		•
Social Justice Studies for Transfer		•			
Social Work	•				
Sociology for Transfer		•			
Spanish for Transfer		•			
Sports Medicine			•		
Studio Arts for Transfer		•			
Surveying, Mapping & Drawing					•
Technical Drawing					•
Theatre Arts			•		
Theatre Arts for Transfer		•			
Transmission Service					•

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

Rio Hondo College Majors & Programs (Continued)

Rio Hondo College Program of Study	AA	AA-T	AS	AS-T	Certificate of Achievement
Vocational Nursing			•		•
Waste Management					•
Water Management					•
Welding Technology			•		•
Wildland Fire Technology			•		•

Rio Hondo College Program of Study	Skill Proficiency Certificate	Career Certificate
Accounting for Government and Non-Profit Organizations		•
Athletic Trainer's Aide		•
Basic Police Training		•
Certified Nurse Assistant Acute Care		•
Computerized Accounting	•	
Desktop Technician		•
Emergency Medical Technician	•	
Entry Network Technician		•
Game Development	•	
Home Health Aide		•
Human Services	•	
Income Tax Preparer	•	
Network Technician		•
Nurse Assistant Pre-Certification Training Course		•
PC Repair Technician		•

Non-Credit Certificate of Completion	Certificate
B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design)	•
Civil Drawing and Pressure Piping	•
Parametric Modeling and CADD	•

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:

Required Courses	Units
ACCT 101 or ACCT 101H	Financial Accounting..... 4
ACCT 102	*Financial Accounting Honors 4
ACCT 103	*Managerial Accounting 4
ACCT 106	Payroll Accounting..... 3
ACCT 203	Computerized Accounting 3
BUSL 110	*Introduction to Cost Accounting..... 3
CIT 107	Legal Environment of Business 3
MGMT 101	Microsoft® Excel® 3
ENGL 101 or MGMT 108	Introduction to Business 3
	*College Composition & Research 3.5
	Business Writing..... 3

Choose a minimum of 6 units from the following:

ACCT 104	* Introduction to Government and Not-For-Profit Accounting..... 3
ACCT 105	Income Tax Accounting 4
ACCT 107	Accounting Ethics 3
ACCT 108	Volunteer Income Tax I..... 1
ACCT 109	Volunteer Income Tax II 1
ACCT 290	CWE/Internship for Accounting Related Fields..... 1-4
FIN 101	Introduction to Financial Planning..... 3

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:

Required Courses	Units
ACCT 101 or ACCT 101H	Financial Accounting..... 4
ACCT 102	*Financial Accounting Honors 4
ACCT 103	*Managerial Accounting 4
ACCT 106	Payroll Accounting..... 3
ACCT 203	Computerized Accounting 3
BUSL 110	*Introduction to Cost Accounting..... 3
CIT 107	Legal Environment of Business 3
MGMT 101	Microsoft® Excel® 3
	Introduction to Business 3
ENGL 101 or MGMT 108	*College Composition & Research..... 3.5
	Business Writing..... 3

Choose a minimum of 6 units from the following:

ACCT 104	* Introduction to Government and Not-For-Profit Accounting..... 3
ACCT 105	Income Tax Accounting 4
ACCT 107	Accounting Ethics 3
ACCT 108	Volunteer Income Tax I..... 1
ACCT 109	Volunteer Income Tax II 1
ACCT 290	CWE/Internship for Accounting Related Fields..... 1-4
FIN 101	Introduction to Financial Planning 3

Units Required 35 - 35.5

*Prerequisite

ACCOUNTING

DIVISION OF BUSINESS

CERTIFICATE OF ACHIEVEMENT

Computerized Accounting Systems

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

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

Required Courses		Units
ACCT 101	Financial Accounting.....	4
CIT 107	*Microsoft Excel	3
MGMT 108	Business Writing.....	3
Or		
MGMT 208	*Business Communications.....	3
Or		
ENGL 101	*College Composition and Research	3.5
ACCT 106	Computerized Accounting.....	3
ACCT 103	Payroll Accounting.....	3

Degree Total/ Units Required..... 16 – 16.5

**Prerequisite*

CAREER CERTIFICATE

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		Units
ACCT 101	Financial Accounting.....	4
ACCT 103	Payroll Accounting.....	3
ACCT 104	*Introduction to Government and Not-For-Profit Accounting.....	3
ACCT 106	Computerized Accounting.....	3
MGMT 108 or	Business Writing.....	3
ENGL 101	*College Composition and Research	3.5

Units Required 16 – 16.5

**Prerequisite*

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		Units
ACCT 105	Income Tax Accounting	4
ACCT 108	Volunteer Income Tax Assistance I	1
ACCT 109	Volunteer Income Tax Assistance II.....	1

Units Required 6

ADMINISTRATION OF JUSTICE

DIVISION OF PUBLIC SAFETY

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:

Required Courses	Units
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
	18

Plus 6 units from the following courses:

GIS 281	Crime Mapping and Analysis 4
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

ADMINISTRATION OF JUSTICE

DIVISION OF PUBLIC SAFETY

ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Science in Administration of Justice for Transfer

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.

Required Courses

	Units
AJ 101 Introduction to Administration of Justice.....	3
AJ 106 *Criminal Law I.....	3
<i>Choose two courses from the following list:</i>	
AJ 102 Criminal Procedures	3
AJ 104 Legal Aspects of Evidence	3
AJ 105 Community Relations/Multicultural Issues Within Public Service	3
AJ 207 Juvenile Law and Procedure.....	3
AJ 208 Principles of Investigation	3

Choose two courses from the following list:

(Any course not used above)

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

Required Subtotal 18-19

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

Degree Total 60

**Prerequisite*

ADVANCED ENGINE PERFORMANCE

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

In addition, students must complete TWO of the following:

AUTO 115 *Computerized Engine Controls and Diagnostics.....	3
AUTO 150 *Engine Electrical Systems.....	4
AUTO 180 *Advanced Automotive Diagnostic Procedures and Practices.....	3
AUTO 256 *Automotive Scantools and Vehicle Network Systems.....	3

Units Required 32 or 33

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

The courses listed in the Certificate of Achievement 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 Certificate is designed to prepare an individual for entry-level employment as an Automotive Engine Performance Diagnostic Technician.

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

Required Courses	Units
AUTO 065 Smog Technician Diagnostic and Repair Procedures.....	3
AUTO 106 Automotive Electrical Tools and Diagnostic Procedures.....	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up.....	3
AUTO 120 *Engine Tune-Up/Performance.....	4
AUTO 130 Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals.....	3
AUTO 135 Level-II Smog Technician Training Course: Smog Check Inspection Procedures.....	3
AUTO 155 *Automotive On-Board Diagnostics Generations One and Two (OBD I & OBD II).....	3
AUTO 157 Automotive Specialized Electronics Training.....	4

In addition, students must complete TWO of the following:

AUTO 115 *Computerized Engine Controls and Diagnostics.....	3
AUTO 150 *Engine Electrical Systems.....	4
AUTO 180 *Advanced Automotive Diagnostic Procedures and Practices.....	3
AUTO 256 *Automotive Scantools and Vehicle Network Systems.....	3

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:

Required Courses

Units

AUTO 065	Smog Technician Diagnostic and Repair Procedures.....	3
AUTO 130	Level-I Smog Technician Training Course: Engine and Emission Control Fundamentals	3
AUTO 135	Level-II Smog Technician Training Course: Smog Check Inspection Procedures	3
AUTO 155	*Automotive On-Board Diagnostics Generations One and Two (OBD-I & OBD-II)	3
Units Required	12	
<i>*Prerequisite</i>		

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*

ALTERNATIVE FUELS & ADVANCED TRANSPORTATION TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

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:

Required Courses	Units
AUTO 101 Introduction to Automotive Service and Repair: Underhood Service.....	3
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service.....	3
AUTO 106 Automotive Electrical Tools and Diagnostics Procedures.....	3
AUTO 107 *Introduction to Automotive Light Service.....	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up.....	3
AUTO 115 *Computerized Engine Controls & Diagnostics	3
AUTO 141 Alternative Fuels I	3
AUTO 142 Alternative Fuels II.....	4
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology.....	3
AUTO 157 *Automotive Specialized Electronics Training.....	4

Units Required 32

**Prerequisite*

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 in which courses are taken may be modified to meet individual needs.

To acquire the **Certificate of Achievement in Alternative Fuels & Advanced Transportation Technology**, it is necessary to complete the following courses:

Required Courses	Units
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up	3
AUTO 115 *Computerized Engine Controls & Diagnostics.....	3
AUTO 141 Alternative Fuels I.....	3
AUTO 142 Alternative Fuels II	4
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	3
AUTO 157 *Automotive Specialized Electronics Training.....	4

Units Required 20

**Prerequisite*

ANIMATION

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF ARTS DEGREE

This Degree is recommended for those who are interested in the field of Entertainment Art and Animation.

Students are advised to check with the Counseling Department for the courses accepted into the Animation major at the four-year institutions where they seek transfer.

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

Required Courses		Units
ANIM 101	Introduction to Digital 3D Animation.....	4
ANIM 105	Principles of Digital Animation	4
ART 105 or ART 105H	*Survey of Western Art: Prehistory through the Middle Ages	3
ART 106 or ART 106H	*Survey of Western Art: Renaissance to Contemporary.....	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 130	Freehand Drawing I	3
<i>Choose one course from the list below</i>		
ANIM 110	Digital Character Animation	4
ANIM 120	Lighting and Texture.....	4
ANIM 130	Modeling for Games	4
ANIM 260	*Figure Drawing for Animators	3
ART 170	Introduction to Digital Painting.....	3

Units Required 26-27

**Prerequisite*

ANIMATION

DIVISION OF ARTS & CULTURAL PROGRAMS

CERTIFICATE OF ACHIEVEMENT

Entertainment Art-Digital Characters

Entertainment Art students work in a collaborative environment on project based assignments that revolve around creativity and innovation. Students are taught the skills they will need in order to create amazing artwork using the latest digital tools. The curriculum centers on the current production techniques used in designing the visual components found in games, apps, feature films and the web. From the fundamentals of 2D visual development through the pipeline for creating a finished 3D piece, students are guided by industry professionals. Entertainment Art students finish their training with portfolios full of intriguing and elaborate digital characters.

To acquire the **Certificate of Achievement in Entertainment Art-Digital Characters** it is necessary to complete the following courses:

Required Courses	Units
ART 170	Introduction to Digital Painting.....3
ANIM 110	Digital Character Animation.....4
ANIM 130	Modeling for Games4
ANIM 133	Character Design.....4
ANIM 140	Animation Portfolio.....4
ANIM 260	Figure Drawing for Animators.....3

Units Required 22

Entertainment Art-Digital Environments

Entertainment Art students work in a collaborative environment on project based assignments that revolve around creativity and innovation. Students are taught the skills they will need in order to create amazing artwork using the latest digital tools. The curriculum centers on the current production techniques used in designing the visual components found in games, apps, feature films and the web. From the fundamentals of 2D visual development through the pipeline for creating a finished 3D piece, students are guided by industry professionals. Entertainment Art students finish their training with portfolios full of captivating digital environments, vehicles and props.

To acquire the **Certificate of Achievement in Entertainment Art-Digital Environments** it is necessary to complete the following courses:

Required Courses	Units
ART 170	Introduction to Digital Painting.....3
ANIM 130	Modeling for Games4
ANIM 134	Mech and Vehicle Design.....4
ANIM 135	Environment Design.....4
ANIM 140	Animation Portfolio.....4

Units Required 19

ANTHROPOLOGY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN ANTHROPOLOGY FOR TRANSFER



Associate Degree
for Transfer

A Degree with a Guarantee.SM

Associate in Arts in Anthropology for Transfer

The Associate in Arts in Anthropology for Transfer (AA-T) Degree is intended to meet the lower division requirements for Anthropology majors (or similar majors) at a CSU campus that offers an Anthropology baccalaureate degree.

This degree focuses on the critical analysis of human beings from both a cultural and biological perspective. The diversity of humans is investigated through a time cross-culturally in terms of their behavioral adaptations as well as using the framework of evolution to understand biological adaptation. Students will gain a basic understanding of the various fields and sub-fields of the discipline of Anthropology through their elective choices.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Anthropology:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 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.

Required Courses	Units
ANTH 101 or ANTH 101H	Introduction to Physical Anthropology *Introduction to Physical Anthropology 3 Honors..... 3
ANTH 101L	*Introduction to Physical Anthropology 1 Lab..... 1
ANTH 102 or ANTH 102H	Introduction to Cultural Anthropology *Introduction to Cultural Anthropology 3 Honors..... 3
ANTH 103	Introduction to Archaeology..... 3
ANTH 104	Introduction to Language and Culture 3

Choose one course from the following:

ANTH 110/ SOC 110	Human Sexuality from a Cross-Cultural Perspective (if not used above) 3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural (if not used above)..... 3
PSY 200	*Research Methods in Psychology..... 3
GEOL 150	Physical Geology..... 3
MATH 130 or MATH 130H or PSY 190	*Statistics or *Statistics Honors or *Statistics for the Behavioral Sciences..... 4

Choose one course from the following:

ANTH 115	Introduction to Medical Anthropology 3
ANTH 110/ SOC 110	Human Sexuality from a Cross-Cultural Perspective (if not used above) 3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural (if not used above)..... 3
HIST 158	US Comparative History of American 3 Indians and Black Americans..... 3
HIST 159 or	US Comparative History of Mexican and 3 Asian Americans & Women 3
HIST 159H	*US Comparative History of Mexican and Asian Americans & Women Honors..... 3
GEOG 102	Cultural Geography 3
SOC 101 or SOC 101H	Introduction to Sociology..... 3 Introduction to Sociology Honors..... 3
MATH 130 or MATH 130H or PSY 190	*Statistics (if not used above) or *Statistics Honors (if not used above) or *Statistics for the Behavioral Sciences (if not used above) 4

Required Subtotal 19-20

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

Total Units 60

*Prerequisite

ARCHITECTURE

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

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		Units
ARCH 115	Introduction to Residential Architecture: Drawing and Design	4
ARCH 125	*Residential Architecture and Detailing.....	3
ARCH 215	*Architectural Perspective and Rendering.....	4
ARCH 225	*Commercial Wood and Masonry Design and Construction.....	4
ARCH 235	*Architectural Design Studio.....	4
ARCH 260	* Advanced Architecture Using Revit and 3D Software.....	4
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Architectural & Technical Freehand Sketching.....	2
ENGT 150	AutoCAD for Basic CADD Applications	4
<i>Select one course from the following:</i>		
ARCH 236	*Architectural Design Studio II.....	4
ARCH 261	*Revit for Advanced BIM Architectural, Structural and MEP Applications.....	4

Units Required 36

**Prerequisite*

ARCHITECTURAL DESIGN & DRAWING

DIVISION OF CAREER & TECHNICAL EDUCATION

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	Units
ARCH 095 Construction Document Reading and Estimating	3
ARCH 115 Introduction to Residential Architecture: Drawing and Design.....	4
ARCH 125 *Residential Architecture and Detailing.....	3
ARCH 225 *Commercial Wood and Masonry Design and Construction.....	4
CIV 140 Civil Drafting Fundamentals	3
ENGT 101 Introduction to Technical Drawing & Graphics	3
ENGT 105 Architectural and Technical Freehand Sketching.....	2
ENGT 122 Engineering Design Graphics.....	4
ENGT 150 AutoCAD for Basic CADD Applications	4
ENGT 170 MicroStation for Basic CADD Applications	4
ENGT 200 *Intermediate AutoCAD for Design and Production.....	3

Select one course from the following:

ARCH 260	*Advanced Architecture Using Revit and 3D Software.....	4
ENGT 280	*Advanced MicroStation for CADD & BIM Applications.....	4
ARCH 280	*Advanced MicroStation for CADD & BIM Applications	4

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	Units
ARCH 095 Construction Document Reading and Estimating	3
ARCH 115 Introduction to Residential Architecture: Drawing & Design.....	4
ARCH 125 *Residential Architecture & Detailing	3
ARCH 225 *Commercial Wood & Masonry Design & Construction	4
CIV 140 Civil Drafting Fundamentals.....	3
ENGT 101 Introduction to Technical Drawing & Graphics	3
ENGT 105 Architectural & Technical Freehand Sketching.....	2
ENGT 122 Engineering Design Graphics	4
ENGT 150 AutoCAD for Basic CADD Applications	4

Units Required 30

**Prerequisite*

ART

DIVISION OF ARTS & CULTURAL PROGRAMS

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:

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

Additional six units from the following:

ART 140	Ceramics I	3
ART 141	*Ceramics II	3
ART 230	*Beginning Life Drawing	3
ART 231	*Intermediate Life Drawing	3
ART 235	*Advanced Painting I	3
ART 236	*Advanced Painting II	3

Units Required 30

**Prerequisite*

ART/STUDIO ARTS

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN STUDIO ARTS FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

Associate in Arts in Art/Studio Arts for Transfer

The Associate in Arts in Art/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 Art/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.

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.

Required Courses	Units
ART 106 or	Survey of Western Art: Renaissance to Contemporary 3
ART 106H	*Survey of Western Art: Renaissance to Contemporary Honors 3
ART 120	Two Dimensional Design 3
ART 121	Three Dimensional Design 3
ART 130	Freehand Drawing I 3

Choose one course, 3 units, from the following list:

ART 105 or	Survey of Western Art: Prehistory through the Middle Ages 3
ART 105H	*Survey of Western Art: Prehistory through the Middle Ages Honors 3
ART 107	The Art of Asia 3
ART 108	Art of Mexico 3

Choose three courses, 9 units, from the following list:

ART 131	*Freehand Drawing II 3
ART 135	Beginning Painting 3
ART 136	*Intermediate Painting 3
ART 140	Ceramics I 3
ART 141	*Ceramics II 3
ART 150	*Beginning Printmaking 3
ART 230	*Beginning Life Drawing 3
ART 231	*Intermediate Life Drawing 3
ART 235	*Advanced Painting I 3
ART 236	*Advanced Painting II 3
ART 242	*Advanced Ceramics 3
PHTO 190	Beginning Photography 3

Required Subtotal 24

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

Degree Total 60

**Prerequisite*

ART HISTORY

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN ART HISTORY FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

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.

Required Courses

	Units
ART 105 or	Survey of Western Art: Prehistory through the Middle Ages
ART105H	*Survey of Western Art: Prehistory through the Middle Ages Honors..... 3
ART 106 or	Survey of Western Art: Renaissance to Contemporary
ART 106H	*Survey of Western Art: Renaissance to Contemporary Honors..... 3
ART 130	Freehand Drawing I..... 3

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

ART 104	Art of the Ancient Americas..... 3
ART 107	The Art of Asia 3
ART 108	The Art of Mexico 3

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

ART 120	Two Dimensional Design (recommended)..... 3
ART 121	Three Dimensional Design 3
ART 135	Beginning Painting 3
ART 140	Ceramics I 3
ART 230	*Beginning Life Drawing 3
PHTO190	Beginning Photography 3

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

ART 109	Art of the Americas: Colonial to the Present..... 3
ART 112	Art in the Modern Era..... 3
ART 113	The History of Photography..... 3
ART 115	The Art of Film..... 3
ART 120	Two Dimensional Design (if not already used)..... 3
ART 121	Three Dimensional Design (if not already used)..... 3

Required Subtotal 18

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

Degree Total 60

**Prerequisite*

AUTOMOTIVE 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 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:

Required Courses	Units
AUTO 107	*Introduction to Automotive Light Service 3
AUTO 140	*Body and Chassis Electrical Systems..... 4
AUTO 150	*Engine Electrical Systems..... 4
AUTO 160	*Upper End Engine Rebuilding and Machining 4
AUTO 200	*Suspension Steering & Alignment Service 4
AUTO 210	*Automotive Brake Systems..... 4
AUTO 220	*Manual Drive Trains and Axles..... 4
AUTO 230	*Automatic Transmission/Transaxle 4
AUTO 240	*Heating and Air Conditioning..... 4

Units Required 35

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

General Automotive Service

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:

Required Courses	Units
AUTO 107	*Introduction to Automotive Light Service 3
AUTO 140	*Body & Chassis Electrical Systems 4
AUTO 150	*Engine Electrical Systems..... 4
AUTO 160	*Upper End Engine Rebuilding and Machining 4
AUTO 200	*Suspension Steering & Alignment Service 4
AUTO 210	*Automotive Brake Systems..... 4
AUTO 220	*Manual Drive Trains and Axles 4
AUTO 230	*Automatic Transmission/Transaxle 4
AUTO 240	*Heating and Air Conditioning..... 4

Units Required 35

**Prerequisite*

AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

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	Units
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service	3
AUTO 140 *Body and Chassis Electrical Systems	4
AUTO 200 *Suspension, Steering and Alignment Service	4
AUTO 210 *Automotive Brake Systems	4
AUTO 211 *Antilock Brakes/Traction Control Systems	3

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	Units
AUTO 106 Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 108 *Introduction to Automotive Diesel Service & Operation	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up	3
AUTO 115 *Computerized Engine Controls and Diagnostics	3
AUTO 118 *Light-Duty Vehicle Diesel Fuel Systems & Emission Control Diagnostics	3

Units Required 15

**Prerequisite*

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:

Required Courses	Units
AUTO 101 Introduction to Automotive Service & Repair: Underhood Service	3
AUTO 160 *Upper-End Engine Rebuilding and Machining	4
AUTO 170 *Lower-End Engine Rebuilding and Machining	4
AUTO 190 Engine Blueprinting & Machining	3

Units Required 14

**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:

Required Courses	Units
AUTO 106 Automotive Electrical Tools and Diagnostic Procedures	3
AUTO 110 *Introduction to Engine Diagnosis and Tune-Up	3
AUTO 128 *Fuel Injection Systems I	3
AUTO 138 *Fuel Injection Systems II	3
AUTO 150 *Engine Electrical Systems	4

Units Required 16

**Prerequisite*

AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

General Service Technician

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:

Required Courses	Units
AUTO 101 Introduction to Automotive Service and Repair: Underhood Service..	3
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service	3
AUTO 106 Automotive Electrical Tools and Diagnostics Procedures.....	3
AUTO 107 *Introduction to Automotive Light Service.....	3

Units Required 12

**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	Units
AUTO 140 *Body and Chassis Electrical Systems	4
AUTO 148 *Vehicle Safety, Comfort and Convenience Systems.....	3
AUTO 211 *Antilock Brakes/Traction Control.....	3
AUTO 240 *Heating and Air Conditioning.....	4

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:

Required Courses	Units
AUTO 103 Introduction to Automotive Service and Repair: Undercar Service.....	3
AUTO 125 *Power Train System Service and Transmission Diagnostics.....	4
AUTO 220 *Manual Drive Trains and Axles	4
AUTO 230 *Automatic Transmission/Transaxle	4

Units Required 15

**Prerequisite*

BIOLOGY

DIVISION OF MATHEMATICS & SCIENCES

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	Units
BIOL 200	*Principles of Biology I (Molecular and Cellular Biology) 5
BIOL 201	*Principles of Biology II (Diversity and Ecology) 5
CHEM 130	*General Chemistry 5
CHEM 140	*General Chemistry 5
MATH 190 or MATH 190H	*Calculus I 4
MATH 191 or MATH 130 or MATH 130H	*Calculus II 4
PHY 150 or PHY 211	*Statistics 4
PHY 160 or PHY 212	*General Physics I 4
	*Physics for Scientists and Engineers I 4
	*General Physics II 4
	*Physics for Scientists and Engineers II 4

Units Required 36

* Prerequisite

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

BIOLOGY

DIVISION OF MATHEMATICS & SCIENCES

ASSOCIATE OF SCIENCE IN BIOLOGY FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.SM

Associate in Science in Biology for Transfer

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

This degree provides for the completion of general lower-division preparation associated with the requirements for a bachelor's degree in biology, biochemistry, botany, ecology, forestry, zoology, microbiology, medicine, and other fields. It provides a broad, comprehensive overview of the main areas of biological science. The ability to critically think and use appropriate tools to solve biological questions will be emphasized.

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

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA, students should consult with a counselor for more information).
3. Completion of the 36 semester units in the major with a grade of "C" or better.
4. Certified completion of the California State University General Education-Breadth (CSUGE) for STEM pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) for STEM pattern.

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

Required Courses	Units
BIOL 200	*Principles of Biology I..... 5
BIOL 201	*Principles of Biology II..... 5
CHEM 130	*General Chemistry..... 5
CHEM 140	*General Chemistry..... 5
MATH 190 or	*Calculus I.....
MATH 190H	*Calculus I Honors..... 4
MATH 191	*Calculus II..... 4
PHY 150 or	*General Physics I
PHY 211	*Physics for Scientists and Engineers I..... 4
PHY 160 or	*General Physics II
PHY 212	*Physics for Scientists and Engineers II..... 4

Required Subtotal 36

CSU GE for STEM Pattern or IGETC for STEM PatternVaries
Transferrable Electives (*as needed to reach 60 transferable units*)

Total Units Required 60

* Prerequisite

BUSINESS ADMINISTRATION

DIVISION OF BUSINESS

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		Units
ACCT 101	Financial Accounting.....	4
ACCT 102	*Managerial Accounting	4
BUSL 110	Legal Environment of Business	3
CIT 101	Introduction to Computer Information Technology.....	3
ECON 101 or ECON 101H	*Principles of Macroeconomics.....	3
ECON 102 or ECON 102 H	*Principles of Macroeconomics Honors	3
MATH 120 or MATH 130 or MATH 130H or MATH 170	*Principles of Microeconomics	3
	*Principles of Microeconomics Honors	3
	*Finite Mathematics.....	4
	*Statistics	4
	*Elements of Calculus.....	4

Units Required 24

**Prerequisite*

BUSINESS ADMINISTRATION

DIVISION OF BUSINESS

ASSOCIATE IN SCIENCE IN BUSINESS ADMINISTRATION FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

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	Units
ACCT 101	Financial Accounting..... 4
ACCT 102	*Managerial Accounting..... 4
BUSL 110	Legal Environment of Business 3
ECON 101 or ECON 101H	*Principles of Macroeconomics..... 3
ECON 102 or ECON 102H	*Principles of Macroeconomics Honors
Select One:	*Principles of Microeconomics 3
MATH 130 or MATH 130H	*Principles of Microeconomics Honors
MATH 170	*Statistics..... 4
	*Statistics Honors
	*Elements of Calculus 4
Select Two:	
CIT 101	Introduction to Computer Information ... Technology 3
MATH 130 or MATH 130H MATH 170	*Statistics (<i>if not taken above</i>)
	*Statistics Honors (<i>if not taken above</i>) 4
	*Elements of Calculus (<i>if not taken above</i>)..... 4
MGMT 101	Introduction to Business 3
MGMT 208	*Business Communications 3
Required Subtotal 27-28
CSU GE or IGETC Pattern.....	Varies
Transferable Electives (<i>as needed to reach 60 transferable units</i>)	
Degree Total	60
<i>*Prerequisite</i>	

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 marketing 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:

Required Courses	Units
BUSL 110 Legal Environment of Business	3
MGMT 101 Introduction to Business	3
MGMT 150 Principles of Management.....	3
MRKT 170 Elements of Marketing.....	3

Choose one course from the following:

MGMT 108 Business Writing	3
MGMT 208 *Business Communications	3

Choose four courses from the following:

GIS 120 *Introduction to Geographic Information Systems and Spatial Analysis	4
LOG 101 Supply Chain Management.....	3
MGMT 141 International Marketing.....	3
MRKT 171 Consumer Behavior	3
MRKT 172 Advertising and Promotion	3
MRKT 173 Principles of Selling.....	3
MRKT 174 Small Business Marketing and Advertising.....	3
MRKT 175 Retail Management	3

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 marketing research, customer service, and small business marketing.

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

Required Courses	Units
MGMT 101 Introduction to Business	3
MRKT 170 Elements of Marketing.....	3

Choose four courses from the following:

GIS 120 *Introduction to Geographic Information Systems and Spatial Analysis	4
LOG 101 Supply Chain Management.....	3
MGMT 141 International Marketing.....	3
MRKT 171 Consumer Behavior	3
MRKT 172 Advertising and Promotion	3
MRKT 173 Principles of Selling.....	3
MRKT 174 Small Business Marketing and Advertising.....	3
MRKT 175 Retail Management	3

Units Required 18-19

**Prerequisite*

CHEMISTRY

DIVISION OF MATHEMATICS & SCIENCES

ASSOCIATE OF SCIENCE IN CHEMISTRY FOR TRANSFER



Associate Degree for Transfer

A Degree with a Guarantee.™

Associate in Science in Chemistry for Transfer

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

This degree provides for the completion of general lower-division preparation associated with the requirements for a bachelor's degree in chemistry, biochemistry, chemical engineering, and other fields. It provides a broad, comprehensive overview of the main areas of chemistry and its' applications. The ability to critically think and use appropriate tools to solve chemical questions will be emphasized.

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

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework (some majors may require a higher GPA, students should consult with a counselor for more information).
3. Completion of the 36 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) STEM pattern.

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

Required Courses

	Units
CHEM 130	*General Chemistry 5
CHEM 140	*General Chemistry 5
CHEM 230	*Organic Chemistry I 5
CHEM 231	*Organic Chemistry II..... 5
MATH 190 or	*Calculus I..... 4
MATH 190H	*Calculus I Honors..... 4
MATH 191	*Calculus II 4
PHY 211	*Physics for Scientists and Engineers I..... 4
PHY 213	*Physics for Scientists and Engineers III..... 4

Required Subtotal 36

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

Total Units Required 60

**Prerequisite*

CHICANO STUDIES

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE OF ARTS DEGREE

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:

Required Courses	Units
CHST 101	Introduction to Chicano Studies 3
CHST 146	The Mexican-American in the History of the U.S. 3
CHST 148/ SOC 148	La Chicana: The Contemporary Mexican-American Female 3
CHST 150/ POLS 150 HUM 130	Chicano Politics 3 Contemporary Mexican-American Culture 3

Choose two courses from the list below:

ANTH 102 or	*Introduction to Cultural Anthropology 3
ANTH 102H	*Introduction to Cultural Anthropology Honors 3
ANTH 125	Religion, Magic, Witchcraft, and the Supernatural 3
ART 108	The Art of Mexico 3
HIST 122	History of Mexico 3
HIST 131	History of the North American Indian 3
HIST 159 or	*US Comparative History of Mexican and Asian Americans & Women... 3
HIST 159H	*US Comparative History of Mexican and Asian Americans & Women Honors 3
HIST 167	History of California 3
HUM 125 or HUM 125H	*Introduction to Mexican Culture 3 *Introduction to Mexican Culture Honors 3
LIT 117 or LIT 117H	*Mexican Literature in Translation... 3 *Mexican Literature in Translation Honors 3
LIT 149	Introduction to Chicana/Chicano Literature 3
MUS 129	Music in Latin American Culture 3
SOC 116	Introduction to Race and Ethnic Relations 3
SPAN 102	*Spanish II 4
SPAN 130	Spanish for Heritage Speakers I 3
SPAN 131	*Spanish for Heritage Speakers II 3
SPAN 201 or SPAN 201H	*Spanish III 4
SPAN 202	*Spanish IV 4

Units Required 21 -23

**Prerequisite*

CHILD DEVELOPMENT

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE OF SCIENCE DEGREE

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	Units
CD 106 Child Growth and Development (DS 1)+	3
CD 110 Principles and Practices of Early Childhood Education (DS 3) +	3
CD 111 Early Childhood Education Curriculum (DS 3) +	3
CD 114 Observation and Assessment (DS3).....	3
CD 208 Child, Family and Community (DS 2) +	3
CD 228 *Early Childhood Education Practicum** (DS3).....	3
	18 units

Plus nine units selected from the following courses:

CD 102	Nutrition, Health and Safety for Children (DS 7)	3
CD 103	Parenting (DS 2)	3
CD 115	Creative Art Experiences for Children (DS 3)	3
CD 118	Development of Science and Math Experiences (DS 3)	3
CD 119	Music and Movement for Children (DS 3)	3
CD 120	Experiences in Language Arts (DS 3).....	3
CD 128	Growth and Development During the School Years (DS 5).....	3
CD 211	Infants and Toddlers (DS 4).....	3
CD 213	Developing and Implementing Infant/Toddler Curriculum* (DS 4)	3
CD 224	Diversity Issues During Early Childhood, School-Age and Adolescence (DS 3).....	3
CD 226	Introduction to Special Education	3
CD 229	Literacy Development for Young Children (DS 3).....	3
CD 232	Educating Children with Special Needs.....	3
ED 110	Introduction to Teaching.....	3

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 for details.

To acquire a **Certificate of Achievement in Child Development**, it is necessary to complete the following courses:

Required Courses

		Units
CD 106	Child Growth and Development (DS 1)+	3
CD 110	Principles and Practices of Early Childhood Education (DS 3) +	3
CD 111	Early Childhood Education Curriculum (DS 3) +	3
CD 114	Observation and Assessment (DS3).....	3
CD 208	Child, Family and Community (DS 2) +.....	3
CD 228	*Early Childhood Education Practicum** (DS3).....	3
		18

Plus nine units selected from the following courses:

CD 102	Nutrition, Health and Safety for Children (DS 7)	3
CD 103	Parenting (DS 2)	3
CCD 115	Creative Art Experiences for Children (DS 3)	3
CD 118	Development of Science and Math Experiences (DS 3).....	3
CD 119	Music and Movement for Children (DS 3)	3
CD 120	Experiences in Language Arts	

	(DS 3).....	3
CD 128	Growth and Development During the School Years (DS 5)	3
CD 211	Infants and Toddlers (DS 4)	3
CD 213	Developing and Implementing Infant/Toddler Curriculum* (DS 4)	3
CD 224	Diversity Issues During Early Childhood, School-Age and Adolescence (DS 3)	3
CD 226	Introduction to Special Education	3
CD 229	Literacy Development for Young Children (DS 3)	3
CD 232	Educating Children with Special Needs.....	3
ED 110	Introduction to Teaching	3

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

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 for details.

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

Required Courses		Units
CD 102	Nutrition, Health and Safety for Children (DS 7)	3
CD 106	+Child Growth and Development (DS 1)	3
CD 110	+Principles and Practices of Early Childhood Education (DS 3).....	3
CD 111	+Early Childhood Education Curriculum (DS3).....	3
CD 208	+Child Family and Community (DS 2)	3
Units Required		15

CIVIL DESIGN TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

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	Units
ARCH 115	Introduction to Residential Architecture: . Drawing and Design..... 4
CIV 140	Civil Drafting Fundamentals 3
ENGT 101	Introduction to Technical Drawing & Graphics 3
ENGT 105	Architectural and Technical Freehand Sketching..... 2
ENGT 122	Engineering Design Graphics..... 4
ENGT 150	AutoCAD for Basic CADD
or	Applications..... 4
ENGT 170	MicroStation for Basic CADD Applications..... 4

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

Structures

CIV 142	Introduction to Land Surveying and GPS..... 4
ARCH 260	*Advanced Architecture Using Revit and . 3D Software..... 4
ARCH 125 or	*Residential Architecture and Detailing..... 3
ARCH 225	*Commercial Wood and Masonry Design and Construction 4
ARCH 261	*Revit for Advanced BIM Architectural, or Structural and MEP Applications..... 4
ARCH 280	*Advanced MicroStation for CADD & BIM Applications..... 4

Total Units 35-36

**Prerequisite*

Land Development

CIV 142	Introduction to Land Surveying and GPS..... 4
CIV 143	*Applications to Surveying and GPS..... 4
CIV 241	*Civil Engineering Drafting and Design 3
CIV 245 or	*Civil Engineering Design and Modeling 3
GIS 120	Introduction to Geographic Information . Systems and Spatial Analysis..... 4

Total Units 34-35

Piping

ENGT 265	Pressure Piping Design 3
ENGT 266	Pressure Piping Applications 3
ARCH 110	Construction Document Reading and Estimating 3
ARCH 260 or	*Advanced Architecture Using Revit and 3D Software..... 4
ARCH 280	*Advanced MicroStation for CADD & BIM Applications..... 4

Total Units 33

Transportation

LOG 120	Transportation Management 3
GIS 120	Introduction to Geographic Information . Systems and Spatial Analysis 4
CIV 142	Introduction to Land Surveying and GPS 4
CIV 241	*Civil Engineering Drafting and Design..... 3

Total Units 34

Environmental

CIV 142	Introduction to Land Surveying and GPS..... 4
GIS 120	Introduction to Geographic Information . Systems and Spatial Analysis 4
GIS 230	*Geographic Information Systems (GIS) in Environmental Technology..... 3
ET 280	Green Building Design Principles..... 3

Total Units 34

**Prerequisite*

CIVIL DESIGN TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

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:

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

Units Required 47

**Prerequisite*

CIVIL DESIGN TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

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:

Required Courses	Units
CIV 140 Civil Drafting Fundamentals	3
CIV 142 Introduction to Surveying and GPS.....	4
ENGT 101 Introduction to Technical Drawing & Graphics.....	3
ENGT 138 Engineering Careers and Applications	2
ENGT 150 AutoCAD for Basic CADD Applications	4
ENGT 170 MicroStation for Basic CADD Applications	4
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis	4

Plus 4 units from the following:

ARCH 115 or	Introduction to Residential Architecture	4
ENGT 122	Engineering Design Graphics.....	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:

Required Courses	Units
CIV 140 Civil Drafting Fundamentals	3
CIV 142 Introduction to Surveying and GPS.....	4
ENGT 101 Introduction to Technical Drawing & Graphics.....	3
ENGT 122 Engineering Design Graphics.....	4
GIS 120 Introduction to Geographic Information Systems and Spatial Analysis	4
GIS 221 *Cartography Design and Geographic Information Systems.....	4

Select one course from the following:

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

Units Required 26

**Prerequisite*

Additional Recommended courses: GEOG 101 and MATH 175.

COMMUNICATION STUDIES

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN COMMUNICATION STUDIES FOR TRANSFER



Associate Degree
for Transfer

A Degree with a Guarantee.™

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.

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

Required Courses	Units
SPCH 100	Interpersonal Communication..... 3
SPCH 101 or SPCH 101H	Public Speaking..... 3 *Public Speaking Honors
SPCH 140	Argumentation and Debate..... 3

Choose 6 units from List B
(A maximum of 3 units in Forensics):

List B

SPCH 110	Forensics: Speech and Debate Team..... 1-4
SPCH 130	Oral Interpretation 3
SPCH 150	Intercultural Communication 3
SPCH 240	*Argumentation and Discussion..... 3

Choose 3-3.5 additional units from List B or List C

List C:

ANTH 102 or ANTH 102H	Introduction to Cultural Anthropology 3 *Introduction to Cultural Anthropology Honors..... 3
ENGL 201 or ENGL 201H	*Advanced Composition and Critical Thinking *Advanced Composition and Critical Thinking Honors..... 3.5
JOUR 120	Communications Reporting and Writing 3
PSY 101 or PSY 101H	Introductory Psychology *Introductory Psychology Honors..... 3
SOC 101 or SOC 101H	Introduction to Sociology *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

COMPUTER INFORMATION TECHNOLOGY/ COMPUTER SYSTEMS

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

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

Required Courses	Units
CIT 101	Introduction to Computer Information Technology 3
CIT 109	*Microsoft® Access® 3
CIT 111	Introduction to Programming..... 3
CIT 200	*Systems Analysis and Design 3
CIT 210	*Cisco® Networking I..... 3

Choose one area of specialization below:

C++ Programming option

CIT 125	Introduction to C++ Programming..... 4
CIT 126	*Advanced C++ Programming..... 4

Java Programming option

CIT 135	Introduction to Java Programming..... 4
CIT 136	*Advanced Java Programming 4

Units Required 23

*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**, it is necessary to complete the following courses:

Required Courses	Units
CIT 101	Introduction to Computer Information Technology 3
CIT 109	*Microsoft® Access® 3
CIT 111	Introduction to Programming..... 3
CIT 200	*Systems Analysis and Design 3
CIT 210	*Cisco® Networking I..... 3

Choose one area of specialization below:

C++ Programming option

CIT 125	Introduction to C++ Programming..... 4
CIT 126	*Advanced C++ Programming..... 4

Java Programming option

CIT 135	Introduction to Java Programming..... 4
CIT 136	*Advanced Java Programming 4

Units Required 23

*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:

Required Courses		Units
ACCT 090	Introduction to Accounting.....	3
CIT 060	Windows Operating System	3
CIT 101	Introduction to Computer Information ... Technology	3
CIT 103	Microsoft® Word®	3
CIT 107	Microsoft® Excel®	3
CIT 109	*Microsoft® Access®	3
MGMT 108	Business Writing.....	3

Units Required 21

**Prerequisite*

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:

Required Courses		Units
ACCT 090	Introduction to Accounting.....	3
CIT 060	Windows Operating System	3
CIT 101	Introduction to Computer Information ... Technology	3
CIT 103	Microsoft® Word®	3
CIT 107	Microsoft® Excel®	3
CIT 109	*Microsoft® Access®	3
MGMT 108	Business Writing.....	3

Units Required 21

**Prerequisite*

COMPUTER INFORMATION TECHNOLOGY/NETWORK ADMINISTRATOR

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirement for an Associate of Science Degree in Computer Information Technology/Network Administrator. The courses needed for the degree are designed for those wish to pursue a career in Information Technology as a Network Administrator.

To acquire the Associate of Science Degree in Computer Information Technology/Network Administrator, it is necessary to complete the following courses with a grade of "C" or better.

Required Courses	Units
ACCT 100	Introduction to Accounting..... 3
MGMT 101	Introduction to Business 3
MGMT 108	Business Writing..... 3
CIT 101	Introduction to Computer Information Technology..... 3
CIT 180	*PC Maintenance A+ Certification 4
CIT 192	*Network Security I..... 3
CIT 210	*Cisco® Networking I..... 3
CIT 211	*Cisco® Networking II..... 3
CIT 212	*Cisco® Networking III..... 3
CIT 213	*Cisco® Networking IV..... 3

Units Required 31

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/Network Administrator. The courses needed for the certificate are designed for those wish to pursue a career in Information Technology as a Network Administrator.

To acquire the Certificate of Achievement in Computer Information Technology/Network Administrator, it is necessary to complete the following courses with a grade of "C" or better.

Required Courses	Units
CIT 101	Introduction to Computer Information Technology..... 3
CIT 180	*PC Maintenance A+ Certification 4
CIT 192	*Network Security I..... 3
CIT 210	*Cisco® Networking I..... 3
CIT 211	*Cisco® Networking II..... 3
CIT 212	*Cisco® Networking III..... 3
CIT 213	*Cisco® Networking IV..... 3

Units Required 22

**Prerequisite*

COMPUTER INFORMATION TECHNOLOGY/SYSTEM ADMINISTRATOR

DIVISION OF BUSINESS

ASSOCIATE OF SCIENCE DEGREE

The following curriculum meets the requirement for an Associate of Science Degree in Computer Information Technology/System Administrator. The courses needed for the degree are designed for those wish to pursue a career in Information Technology as a System Administrator.

To acquire the Associate of Science Degree in Computer Information Technology/System Administrator, it is necessary to complete the following courses with a grade of "C" or better.

Required Courses	Units
ACCT 100	Introduction to Accounting..... 3
MGMT 101	Introduction to Business 3
MGMT 108	Business Writing..... 3
CIT 101	Introduction to Computer Information Technology..... 3
CIT 130	*Windows Certification..... 3
CIT 131	*Windows Server Active Directory..... 3
CIT 133	*Windows Server Applications Infrastructure 3
CIT 160	Introduction to Operating Systems..... 3
CIT 180	*PC Maintenance – A+ Certification 4
CIT 190	*Introduction to Information Security..... 3

Units Required 31

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

The following curriculum meets the requirement for a Certificate of Achievement in Computer Information Technology/System Administrator. The courses needed for the certificate are designed for those wish to pursue a career in Information Technology as a System Administrator.

To acquire the Certificate of Achievement in Computer Information Technology/System Administrator, it is necessary to complete the following courses with a grade of "C" or better.

Required Courses	Units
CIT 101	Introduction to Computer Information Technology..... 3
CIT 130	*Windows Certification..... 3
CIT 131	*Windows Server Active Directory..... 3
CIT 133	*Windows Server Applications Infrastructure 3
CIT 160	Introduction to Operating Systems..... 3
CIT 180	*PC Maintenance – A+ Certification 4
CIT 190	*Introduction to Information Security..... 3

Units Required 22

**Prerequisite*

COMPUTER INFORMATION TECHNOLOGY

DIVISION OF BUSINESS

CAREER CERTIFICATE

DESKTOP TECHNICIAN

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.

Required Courses	Units
CIT 130	Windows Configuration..... 3
CIT 180	*PC Maintenance - A+ Certification 4
CIT 190	*Introduction to Information Security..... 3

Units Required 10
*Prerequisite

CAREER CERTIFICATE

ENTRY NETWORK TECHNICIAN

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..

Required Courses	Units
CIT 210	*Cisco® Networking I..... 3
CIT 211	*Cisco® Networking II 3
CIT 192	*Network Security I..... 3

Units Required 9
*Prerequisite

CAREER CERTIFICATE

NETWORK TECHNICIAN

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, 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.

Required Courses	Units
CIT 210	*Cisco® Networking I..... 3
CIT 211	*Cisco® Networking II 3
CIT 192	*Network Security I..... 3
CIT 212	*Cisco® Networking III..... 3
CIT 213	*Cisco® Networking IV..... 3

Units Required 15
*Prerequisite

CAREER CERTIFICATE

PC REPAIR TECHNICIAN

This curriculum is designed to prepare students for employment as entry level PC Repair Technicians. Students that successfully complete the PC Repair Technician certificate will be able to install, operate, upgrade and troubleshoot personal computers. This certificate also prepares students to pass the CompTIA A+ examination.

Required Courses	Units
CIT 130	Windows Configuration..... 3
CIT 180	*PC Maintenance - A+ Certification 4

Units Required 7
*Prerequisite

CORRECTIONS

DIVISION OF PUBLIC SAFETY

ASSOCIATE OF SCIENCE DEGREE

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:

Required Courses	Units
AJ 041	Effective Written Communications for Public Service Personnel 3
CORR 101	Introduction to Corrections..... 3
CORR 104	Control and Supervision in Corrections 3
CORR 106	Legal Aspects of Corrections 3
CORR 134	Introduction to Interviewing and Counseling 3
CORR 235	Conflict Resolution 3
Required Units	18
<i>Plus 6 units selected from the following courses:</i>	
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

DANCE

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS DIVISION

ASSOCIATE OF ARTS DEGREE

The Associate of Arts Degree in Dance is a comprehensive two-year program promoting both high artistic and technical standards. The degree fulfills the needs of students seeking professions in dance as performers, choreographers, and/or dance educators and provides training for careers and employment in the performing arts, education, choreography, movement therapy, studio and arts management, arts consultancy, dance criticism, fitness, and community dance programs. An integral part of the AA in Dance is to prepare students for matriculation into Bachelor of Arts or Bachelor of Fine Arts program at a four-year college or university. See admission requirements of individual colleges and universities and transfer requirements for specific majors.

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

Required Courses

Dance Technique

	Units
DANC 114	Conditioning and Alignment for the Dancer 1
DANC 151	Modern Dance I 1
DANC 153	Ballet I 1
DANC 251	*Modern Dance II 1
DANC 253	*Ballet II 1

Dance Theory

DANC 159	Choreography I 3
DANC 179	Dance History 3

Choose 4 units from the following category:

Dance Performance

DANC 152	Dance Rehearsal 3
DANC 162	Dance Production 3
DANC 172	Dance Repertory 3
DANC 180	Performance 1
DANC 182	Dance Ensemble 3

Total Units 15

Choose 4 units from the following categories:

(Dance Styles, Body Conditioning, Arts Related Fields, and/or Kinesiology and Exercise Science, -no more than 3 units from any Single category)

Note: Only one experience in repeatable Dance classes can be used to meet degree requirements.

Dance Styles

DANC 150	Introduction to World Dance 1
DANC 154	Jazz Dance I 1
DANC 157	Hip-Hop Dance 1
DANC 168	Latin Social Dance 1
DANC 254	*Jazz Dance II 1

Body Conditioning

KINA 136	Pilates I 1
KINA 139	Cross Training for Fitness 1
KINA 148	Strength Training 1
KINA 158	Yoga I 1
KINA 258	*Yoga II 1

Arts Related Fields

DANC 199	Dance Appreciation 3
MUS 130	Music History and Literature before 1750 3
MUS 131	Music History and Literature after 1750 3
MUS 133	Music Appreciation 3
THTR 110	Principles of Acting 3
THTR 111	*Principles of Acting 3
THTR 150	Theatre Crafts I 3
THTR 151	*Theatre Crafts II 3
THTR 152	*Theatre Crafts III 3

Kinesiology and Exercise Science

KIN 122	Nutrition for Sport and Fitness 3
KIN 126	Principles of Strength and Conditioning 3
KIN 127	Exercise Physiology 3
KIN 128	Fitness Testing and Exercise Prescription 3
KIN 131	Structure and Analysis of Movement 3
KIN 145	Theory and Analysis of Fitness Instruction 2
KIN 146	Training Principles for Special Populations 2

Units Required 19

*Prerequisites

DRAFTING/TECHNICAL DRAWING

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

The following Technical Drawing curriculum will lead to the Certificate of Achievement and prepare students for employment as an early entry-level technician in the field of Architecture, Civil and Engineering Design Drafting/Drawing. Students will develop skill-based training techniques and knowledge of technical industry standards that will also prepare them for advanced studies in the pursuit of more advanced certificates or degrees for transfer.

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

Required Courses		Units
ARCH 115	Introduction to Residential Architecture: Drawing and Design.....	4
CIV 140	Civil Engineering Fundamentals.....	3
ENGT 101	Introduction to Technical Drawing & Graphics	3
ENGT 105	Architectural and Technical Freehand Sketching.....	2
ENGT 122	Engineering Design Graphics.....	4
<i>Choose one course from the following:</i>		
ENGT 150	AutoCAD for Basic CADD: Applications	4
OR		
ENGT 170	MicroStation for Basic CADD: Applications	4
Units Required		20

DRUG STUDIES

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE OF SCIENCE DEGREE

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:

Required Courses	Units
HUSR 118	Chemical Dependency: Intervention, Treatment, and Recovery..... 3
HUSR 122	Introduction to Group Leadership and Process 3
HUSR 124	Introduction to Case Management and Documentation..... 3
HUSR 126	Counseling the Family of the Addicted Person 3
HUSR 130	Essential Counseling Skills..... 3
HUSR 199	*Fieldwork in Human Services 3-4
HUSR 230	*Drug Studies Seminar and Internship..... 3
PSY 121	Drugs, Society, and Behavior 3
HUSR 123 or HUSR 128	Drug Education and Prevention 3
	Chemical Dependency and Co-Occurring Disorders..... 3
PSY 127	Introduction to the Physiological Effects of Drugs of Abuse..... 3
<i>Choose two courses from the list below:</i>	
HUSR 111	Human Services in Contemporary Society..... 3
PSY 101 or PSY101H	Introductory Psychology 3
PSY 112	Introductory Psychology Honors
PSY 114	Lifespan Development..... 3
	Introduction to Abnormal Psychology 3
SOC 101 or SOC 101H	Introduction to Sociology 3
	Introduction to Sociology Honors

Units Required 36 - 37

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Drug Studies

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:

Required Courses	Units
HUSR 118	Chemical Dependency: Intervention, Treatment, and Recovery 3
HUSR 122	Introduction to Group Leadership and Process 3
HUSR 124	Introduction to Case Management and Documentation 3
HUSR 126	Counseling the Family of the Addicted Person 3
HUSR 130	Essential Counseling Skills..... 3
HUSR 199	*Human Services..... 3-4
HUSR 230	*Drug Studies Seminar and Internship..... 3
PSY 121	Drugs, Society, and Behavior 3
HUSR 123 or HUSR 128	Drug Education and Prevention 3
	Chemical Dependency and Co-Occurring Disorders..... 3
PSY 127	Introduction to the Physiological Effects of Drugs of Abuse..... 3

Choose two courses from the list below:

HUSR 111	Human Services in Contemporary Society..... 3
PSY 101 or PSY 101H	Introductory Psychology 3
PSY 112	Introductory Psychology Honors
PSY 114	Lifespan Development..... 3
	Introduction to Abnormal Psychology 3
SOC 101 or SOC 101H	Introduction to Sociology 3
	Introduction to Sociology Honors

Units Required 36 - 37

*Prerequisite

EARLY CHILDHOOD EDUCATION

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

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	Units
CD 102	Nutrition, Health and Safety for Children.....3
CD 106	Child Growth and Development3
CD 110	Principles and Practices of Early Childhood Education.....3
CD 111	Early Childhood Education Curriculum.....3
CD 114	Observation and Assessment3
CD 208	Child Family and Community.....3
CD 224	Diversity Issues in Early Childhood, School-Age and Adolescence.....3
CD 228	*Early Childhood Education Practicum3
Required Subtotal24

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

Degree Total 60

**Prerequisite*

ECONOMICS

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN ARTS IN ECONOMICS FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

Associate in Arts in Economics for Transfer

The Associate in Arts in Economics for Transfer AA-T Degree is intended to meet the lower division requirements for Economics majors (or similar majors) at a CSU campus that offers an economics baccalaureate degree.

An Economics education provides the student with a logical way of approaching various problems and issues and provides valuable qualitative skills. The student learns techniques for analyzing contemporary economic problems and develops the ability to exercise sound judgment in evaluating public policy issues.

In addition to the courses listed below, the following additional requirements must be met for completion of the **AA-T Degree in Economics**:

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 20-21 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 Economics major at the CSU where they seek transfer.

Required Courses	Units
ECON 101 or ECON 101H	Principles of Macroeconomics.....3 *Principles of Macroeconomics Honors3
ECON 102 or ECON 102H	Principles of Microeconomics3 *Principles of Microeconomics Honors3
MATH 130 or MATH 130H	Statistics.....4 *Statistics Honors.....4
MATH 170 or MATH 190 or MATH 190H	Elements of Calculus4 Calculus I4 *Calculus I Honors4

Choose one course from the following list:

ACCT 101	Financial Accounting4
ACCT 102	Managerial Accounting.....4
CIT 101	Introduction to Computer Information Technology.....3

Choose one course from the following list: Any course not used above or:

ECON 106	Economics of Contemporary Issues.....3
ECON 135 or POLS 135	International Political Economy3 International Political Economy3

Required Subtotal20-21

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

Degree Total 60

**Prerequisite*

ELECTRIC VEHICLE AND FUEL CELL TECHNOLOGY TECHNICIAN

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The Electric Vehicle and Fuel Cell Technology Technician Associate of Science Degree is designed to prepare students to meet the emerging field of service and diagnosis of vehicles powered by electricity generated by any of the following sources, plug-in electric/hybrid-powertrain/fuel cell generation. The green technology can be transferred from vehicles to stationary back-up power systems. Students will need to apply for ASE L-3 testing and pay all applicable fees to take the final ASE exam. This Degree is intended to be the capstone of the Hybrid/Electric/Fuel Cell program.

To acquire the **Associate of Science Degree in Electric Vehicle and Fuel Cell Technology Technician**, it is necessary to complete the graduation requirements of the College along with the following courses:

Required Courses	Units
AUTO 106 Automotive Electrical Tools & Diagnostic Procedures.....	3
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	3
AUTO 157 *Automotive Specialized Electronics Training	4
AUTO 260 *Advanced Hybrid/ Electric Vehicle.....	4
AUTO 265 Fuel Cell Technology Fundamentals.....	4
ELEC 060 D.C. and A.C. Fundamentals	3
ELEC 101 *D/C Electronic Circuits and Devices.....	4
ELEC 102 *A/C Electronic Circuits and Devices.....	4

Units Required 29

*Prerequisite

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

CERTIFICATE OF ACHIEVEMENT

Electric Vehicle and Fuel Cell Technology

The Electric Vehicle and Fuel Cell Technology Technician Certificate of Achievement is designed to prepare students to meet the emerging field of service and diagnosis of vehicles powered by electricity generated by any of the following sources, plug-in electric/hybrid-powertrain/fuel cell generation. The green technology can be transferred from vehicles to stationary back-up power systems. Students will need to apply for ASE L-3 testing and pay all applicable fees to take the final ASE exam. This certificate is intended to be the capstone of the Hybrid/Electric Vehicle/Fuel Cell Program.

To acquire the **Certificate of Achievement in Electric Vehicle and Fuel Cell Technology Technician**, it is necessary to complete the following courses:

Required Courses	Units
AUTO 147 *Introduction to Hybrid & Electric Vehicle Technology	4
AUTO 157 *Automotive Specialized Electronics Training	4
AUTO 260 *Advanced Hybrid/ Electric Vehicle.....	4
AUTO 265 Fuel Cell Technology Fundamentals.....	4

Units Required 15

* Prerequisite

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

DIVISION OF CAREER & TECHNICAL EDUCATION

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:

Units Required 32
* *Prerequisite*

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

Electronics Technology

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

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



Associate Degree
for Transfer

A Degree with a Guarantee.™

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.

Required Courses	Units
BIOL 101	General Biology4
CD 106	Child Growth & Development.....3
ED 110	Introduction to Teaching.....3
ENGL 101	*College Composition and Research3.5
ENGL 201 or	*Advanced Composition and Critical Thinking
ENGL 201H	*Advanced Composition and Critical Thinking Honors.....3.5
GEOL 150	Physical Geology.....3
GEOL 151	Physical Geology Laboratory1
GEOG 103	World Regional Geography3
HIST 101	History of World Civilization to the 17th Century3
HIST 143 or	History of the United States to 1877
HIST 143H	*History of the United States to 1877 Honors3
LIT 102 or	*Approaches to Literature
LIT 102H	*Approaches to Literature Honors3
MATH 140	*Mathematics for Elementary Teachers4
PHY 120	*Physics for Everyday Use4
CHEM 120	*Introduction to Chemistry5
POLS 110 or	Government of the United States
POLS 110H	*Government of the United States Honors3
SPCH 101 or	Public Speaking
SPCH 101H	*Public Speaking Honors.....3
Choose one course from the following list:	
ART 105 or	Survey of Western Art: Prehistory Through Middle Ages
ART 105H	*Survey of Western Art: Prehistory through Middle Ages Honors3
ART 110	Understanding Visual Art3
DANC 199	Dance Appreciation.....3
MUS 133	Music Appreciation3
THTR 101	Theatre Arts Appreciation3
Required Subtotal50-51
CSU GE or IGETC PatternVaries
Transferable Electives	(as needed to reach 60 transferable units)
Degree Total	60
<i>*Prerequisite</i>	

EMERGENCY MEDICAL TECHNICIAN

DIVISION OF PUBLIC SAFETY

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 Skill Proficiency in Emergency Medical Technician**, it is necessary to complete the following:

Required Courses

	Units
EMT 093 *Emergency Medical Technician.....	8

Units Required 8

**Prerequisite*

ENGINEERING

DIVISION OF MATHEMATICS & SCIENCES

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree in Engineering will prepare those students interested in laying a foundation for further study and for a Bachelor's Degree in an engineering field from a four-year college or university.

The engineering program fulfills many of the requirements and foundation courses for transfer to Baccalaureate engineering-related majors, but does not satisfy all transfer requirements for specific institutions. Students should consult a counselor for major preparation for specific universities and colleges.

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

Required Courses	Units
MATH 190 or	*Calculus I.....4
MATH 190H	*Calculus I Honors.....4
MATH 191	*Calculus II4
PHY 211	*Physics for Scientists & Engineers I.....4
PHY 212	*Physics for Scientists & Engineers II.....4
PHY 213	*Physics for Scientists & Engineers III.....4
Total Units.....	20

Choose 16 units from the list below:

BIOL 200	*Principles of Biology -1.....5
BIOL 201	*Principles of Biology -2.....5
CHEM 130	*General Chemistry5
CHEM 140	General Chemistry5
CHEM 230	*Organic Chemistry I5
CHEM 231	*Organic Chemistry II.....5
CIT 125	Introduction to C++ Programming.....4
CIT 126	*Advanced C++ Programming.....4
CIV 140	Civil Drafting Fundamentals3
CIV 142	Introduction to Surveying and GPS.....4
CIV 241	*Civil Engineering Drafting and Design3
ENGT 122	Engineering Design Graphics.....4
ENGT 138	Engineering Careers and Applications2
ENGR 217	*Electric Circuit Analysis3
ENGR 235	*Engineering Mechanics: Statics3
MATH 250	*Calculus III.....4
MATH 260	*Linear Algebra.....4
MATH 270	*Differential Equations4

Units Required 36

**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:

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

Units Required 36

**Prerequisite*

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:

Required Courses	Units
ARCH 115	Introduction to Residential Architecture: Drawing & Design..... 4
CIV 140	Civil Drafting Fundamentals 3
ENGT 101	Introduction to Technical Drawing & Graphics 3
ENGT 105	Architectural and Technical Freehand Sketching..... 2
ENGT 122	Engineering Design Graphics..... 4
ENGT 131	*Engineering & Manufacturing Applications of Technical Drawing 4
ENGT 150	AutoCAD for Basic CADD Applications 4
ENGT 231	*Technical Product Design & Presentation 4

Units Required 28

**Prerequisite*

ENGLISH

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN ENGLISH FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

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	Units
ENGL 201 or ENGL 201H	*Advanced Composition and Critical Thinking *Advanced Composition and Critical Thinking Honors.....3.5
LIT 102 or LIT 102H	*Approaches to Literature *Approaches to Literature Honors.....3

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

LIT 112A or 112AH	*American Literature *American Literature Honors.....3
LIT 112B or 112BH	American Literature *American Literature Honors.....3
LIT 144A	World Literature3
LIT 144B	World Literature3
LIT 146A or LIT 146AH	British Literature *British Literature Honors.....3

LIT 146B or LIT 146BH	British Literature *British Literature Honors.....3
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List B: Choose one course from List A (above) not used or choose one course from List B (below) (3 units)

LIT 141	Introduction to Poetry.....3
LIT 117 or LIT 117H	Mexican Literature in Translation *Mexican Literature in Translation Honors
ENGL 127 or ENGL 127H	*Language Structure and Language Use: Introduction to Linguistics *Language Structure & Language Use: Introduction to Linguistics Honors.....3
ENGL 131	*Creative Writing.....3

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

ENGL 125	*Grammar and Usage3
ENGL 126	Languages of the World.....3
LIT 114 or LIT 114H	Children's and Adolescent Literature *Children's and Adolescent Literature Honors.....3
LIT 130 or LIT 130H	*Women in Literature3
LIT 140 or LIT 140H	*Introduction to the Novel *Introduction to the Novel Honors.....3
LIT 142 or LIT 142H	*Introduction to Shakespeare *Introduction to Shakespeare Honors.....3
LIT 145 or LIT 145H	*Introduction to the Short Story *Introduction to the Short Story Honors.....3
LIT 147	*Cinema as Literature3
LIT 148	Introduction to Dramatic Literature.....3
LIT 149	Introduction to Chicana/ Chicano Literature3
LIT 299	Directed Study: Literature.....3
FR 201	*French III.....4
FR 202	*French IV.....4
FR 299	Directed Study: French.....4
SPAN 201 or SPAN 201H	*Spanish III *Spanish III Honors4
SPAN 202	*Spanish IV4
SPAN 299	Directed Study: Spanish3
JOUR 120	Communications Reporting and Writing.....3
SPCH 130	Oral Interpretation.....3
HUM 110	Survey of Humanities3
HUM 111	Survey of Humanities3

Required Subtotal 18.5-19.5

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

Degree Total 60

*Prerequisite

ENGLISH AND LITERATURE

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE OF ARTS DEGREE

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:

Required Courses

	Units
ENGL 201 or ENGL 201H	*Advanced Composition and Critical Thinking..... 3.5
LIT 102 or LIT 102H	*Approaches to Literature 3
LIT 146A or LIT 146AH	*British Literature..... 3
LIT 146B or LIT 146BH	*British Literature..... 3
<i>Choose three courses from the list below:</i>	
ENGL 125	*Grammar and Usage 3
ENGL 126	Languages of the World 3

ENGL 127 or ENGL 127H	*Language Structure and *Language Use: Introduction to Linguistics..... 3 *Creative Writing..... 3
ENGL 131 LIT 112A or LIT 112AH	*American Literature 3
LIT 112B or LIT 112BH	*American Literature 3
LIT 114 or LIT 114H	*Children's and Adolescent Literature..... 3
LIT 117 or LIT 117H	*Mexican Literature in Translation 3
LIT 130 or LIT 130H	*Women and Literature 3
LIT 140 or LIT 140H	*Introduction to the Novel..... 3
LIT 141	*Introduction to Poetry 3
LIT 142 or LIT 142H	*Introduction to Shakespeare 3
LIT 144A	*World Literature 3
LIT 144B	*World Literature 3
LIT 145 or LIT 145H	*Introduction to the Short Story 3
LIT 147	*Cinema as Literature 3
LIT 148	Introduction to Dramatic Literature..... 3
LIT 149	Introduction to Chicana/Chicano Literature..... 3

Units Required 21.5

*Prerequisite

ENVIRONMENTAL SCIENCE

DIVISION OF MATHEMATICS & SCIENCES

ASSOCIATE OF SCIENCE DEGREE

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).

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

Required Courses		Units
BIOL 120	Environmental Biology.....	3
BIOL 120L	*Environmental Biology Lab	1
BIOL 200	*Principles of Biology I (Molecular and Cellular Biology).....	5
CHEM 130	*General Chemistry	5
CHEM 140	*General Chemistry	5
ET 290	Cooperative Work Experience/ Internship	1
MATH 190 or MATH 190H	*Calculus I.....	4
PHY 150	*General Physics I	4

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	Units
ET 130 Health Effects of Environmental Hazardous Materials	3
ET 230 Safety and Emergency Response.....	4
ET 260 Environmental Sampling and Analysis.....	4
BIOL 120 Environmental Biology.....	3
BIOL 120L Environmental Biology Lab	1
-and-	
GIS 120 or Introduction to Geographic Information Systems and Spatial Analysis.....	4
CIT 101 Introduction to Computer Information Technology.....	3

Units Required 18-19

**Prerequisite*

Plus units from any of the following areas of specialization and/or miscellaneous electives to equal a minimum of 27

Suggested Areas of Specialization:

Waste Management	Units
ET 110 Hazardous Waste Generation/Reduction/Treatment	3
ET 150 *Hazardous Waste Management Application	4
ET 200 *Hazardous Materials Management Applications	4
ET 240 Solid Waste Management Applications	4

Land Use Planning & Environmental RestorationUnits

AET/ET 280 Green Building Design Principles	3
ET 160 Hazardous Waste Site Remediation Systems	3
ET 170 Groundwater Hydrology & Sampling.....	3
GIS 230 Geographic Info Systems In Environmental Technology.....	3

Water ResourcesUnits

ET 270 Waste Water Treatment Plant Operations I	3
ET 271 Waste Water Treatment Plant Operations II.....	3
ET 272 Advanced Waste Water Treatment	3
ET 273 Stormwater Management, Treatment & Controls	3
ET 274 Industrial Waste Water Treatment	3
ET 275 Water Treatment.....	3
ET 276 Water Distribution	3

Alternative & Efficient Energy Systems.....Units

AET/ET 120 Introduction to Alternative Energy Technology.....	3
AET/ET 121 Photovoltaic Systems Design & Installation.....	3
AET/ET 122 *Advanced Photovoltaic Systems.....	3
AET/ET 123 Wind Energy Systems Design & Installation.....	3
AET/ET 124 *Advanced Wind Energy Systems.....	3
AET/ET 181 Home Energy Management & Auditing.....	3
AET/ET 182 Industrial Energy Management & Auditing.....	3
AET/ET 280 Green Building Design Principles	3
AUTO 141 Alternative Fuels I	3
AUTO 147 Introduction to Hybrid & Electric Vehicle Technology	3

Environmental Health & Safety.....Units

ET 250 Fundamentals of Safety & Health I.....	3
ET 251 Fundamentals of Safety & Health II.....	3

ENVIRONMENTAL TECHNOLOGY

Miscellaneous Electives.....Units

ET 290 CWE/Internship for Environmental Technology.....	1 - 4
FTEC 107 Hazardous Materials I.....	3
FTEC 108 Hazardous Materials II	3
Directed Study	1

ENVIRONMENTAL TECHNOLOGY

DIVISION OF MATHEMATICS & SCIENCES

CERTIFICATE OF ACHIEVEMENT

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:

Required Courses	Units
BIOL 120 Environmental Biology.....	3
BIOL 120L Environmental Biology Lab	1
CHEM 110 *Chemistry for Allied Health Majors.....	5
ENGL 101 *College Composition and Research.....	3.5
ET 110 Hazardous Waste Generation/ Reduction/Treatment.....	3
ET 130 Health Effects of Environmental Hazardous Materials	3
ET 150 Hazardous Waste Management Applications	4
ET 200 Hazardous Materials Management Applications	4
ET 230 Safety and Emergency Response.....	4

Units Required 30.5

*Prerequisite

Field Technician

The Environmental Technology Field Technician Certificate is designed to prepare students to enter the environmental field or to upgrade working individuals with field technician skills

Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Field Technician**, it is necessary to complete the following courses:

Required Courses	Units
ET 230 Safety and Emergency Response	4
ET 260 Sampling and Analysis.....	4
ET 290 Cooperative Work Experience/ Internship For Environmental Technology Related Fields	1-2
BIOL 120 Environmental Biology	3
BIOL 120L Environmental Biology Lab.....	1

Units Required 13-14

ENVIRONMENTAL TECHNOLOGY

DIVISION OF MATHEMATICS & SCIENCES

CERTIFICATE OF ACHIEVEMENT

Health and Safety

The Environmental Technology Health and Safety Certificate is designed to prepare students to enter the environmental health and safety field or upgrade working individuals with environmental health and safety field technician skills.

Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Health and Safety**, it is necessary to complete the following courses:

Required Courses	Units
ET 130 Health Effects of Environmental Hazardous Materials	3
ET 230 Safety and Emergency Response	4
ET 250 Fundamentals of Safety and Health I	3
ET 251 Fundamentals of Safety and Health II	3
ET 260 Sampling and Analysis.....	4
ET 290 Cooperative Work Experience/ Internship For Environmental Technology Related Fields.....	1-2
BIOL 120 Environmental Biology	3
BIOL 120L Environmental Biology Lab.....	1

Units Required 22-23

Waste Management

The Environmental Technology Waste Management Certificate is designed to prepare students to enter the waste management field or upgrade working individuals with waste management field technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with the governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Waste Management**, it is necessary to complete the following courses:

Required Courses	Units
ET 110 Hazardous Waste Generation, Reduction And Minimization	3
ET 150 Hazardous Waste Management.....	4
ET 200 Hazardous Materials Management..	4
or	
ET 240 Solid Waste Management.....	4
ET 230 Safety and Emergency Response	4
ET 260 Sampling and Analysis.....	4

ET 290	Cooperative Work Experience/ Internship For Environmental Technology Related Fields	1-2
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Lab.....	1

Units Required 24-25

Water Management

The Environmental Technology Water Management Certificate is designed to prepare students to enter the water management field or to upgrade working individuals with water management field technician skills. Students will gain the skills and knowledge that allow a person to work in the environmental field in compliance with governmental regulations and at the same time protect human health and the environment.

To acquire the **Certificate of Achievement in Environmental Technology/Water Management**, it is necessary to complete the following courses:

ET 230	Safety and Emergency Response	4
ET 260	Sampling and Analysis.....	4
ET 290	Cooperative Work Experience/ Internship For Environmental Technology Related Fields	1-2
BIOL 120	Environmental Biology	3
BIOL 120L	Environmental Biology Lab.....	1

Choose four courses from the following list:

ET 270	Waste Water Treatment Plant Operation I	3
ET 271	Waste Water Treatment Plant Operation II	3
ET 272	Advanced Waste Water Treatment...	3
ET 273	Stormwater Management, Treatment and Controls	3
ET 274	Industrial Waste Water	3
ET 275	Water Treatment.....	3
ET 276	Water Distribution	3

Units Required 25-26

FIRE TECHNOLOGY

DIVISION OF PUBLIC SAFETY

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:

Required Courses	Units
FTEC 101 Fire Protection Organization	3
FTEC 102 Principles of Fire & Emergency Services Safety & Survival	3
FTEC 103 Fire Behavior and Combustion	3
FTEC 104 Fire Prevention Technology	3
FTEC 105 Building Construction for Fire Protection	3
FTEC 106 Fire Protection Equipment & Systems	3

Choose 6 units from the following:

EMT 093 *Emergency Medical Technician	8
ET 230 Safety and Emergency Response	4
FAC 118 *Firefighter I Basic Fire Academy	18
FTEC 044 *Physical Fitness and Ability for the Firefighter	3
FTEC 045 Firefighter Entrance Examination Techniques	3
FTEC 107 Hazardous Materials I	3
FTEC 108 *Hazardous Materials II	3
FTEC 109 Fire Fighting Tactics & Strategy	3
FTEC 110 Rescue Practice	3
FTEC 111 Fire Hydraulics	3
FTEC 112 Fire Apparatus and Equipment	3
FTEC 114 Fire Investigations	3
FTEC 117 Fire Service Management, Safety & Wellness	3
FTEC 121 Emergency Response	3
WFT 101 Wild Land Fire Behavior	3

Units Required 24-36

*Prerequisite

CERTIFICATE OF ACHIEVEMENT

Fire Technology

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

Required Courses	Units
FTEC 101 Fire Protection Organization	3
FTEC 102 Principles of Fire & Emergency Services Safety & Survival	3
FTEC 103 Fire Behavior and Combustion	3
FTEC 104 Fire Prevention Technology	3
FTEC 105 Building Construction for Fire Protection	3
FTEC 106 Fire Protection Equipment & Systems	3

Choose 6 units from the following:

EMT 093 *Emergency Medical Technician	8
ET 230 Safety & Emergency Response	4
FAC 118 *Firefighter I Basic Fire Academy	18
FTEC 044 *Physical Fitness and Ability for the Firefighter	3
FTEC 045 Firefighter Entrance Examination Techniques	3
FTEC 107 Hazardous Materials I	3
FTEC 108 *Hazardous Materials II	3
FTEC 109 Fire Fighting Tactics & Strategy	3
FTEC 110 Rescue Practice	3
FTEC 111 Fire Hydraulics	3
FTEC 112 Fire Apparatus & Equipment	3
FTEC 114 Fire Investigations	3
FTEC 117 Fire Service Management, Safety & Wellness	3
FTEC 121 Emergency Response	3
WFT 101 Wild Land Fire Behavior	3

Units Required 24-36

*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.

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.

Required Courses

	Units
ANIM 101	Introduction to Digital 3D Animation..... 4
ANIM 120	Lighting and Texture..... 4
ANIM 130	Modeling for Games 4
GDSN 178	Digital Imaging (<i>Photoshop</i>)..... 3

Units Required 15

GENERAL EDUCATION CERTIFICATES OF ACHIEVEMENT

DIVISION OF COUNSELING AND STUDENT SUCCESS

CSU GE CERTIFICATE OF ACHIEVEMENT

The California State University General Education Breadth (CSU-GE Breadth) pattern is a set of courses designed to fulfill all lower-division general education requirements for California State University campuses, as well as lead to a certificate of achievement at Rio Hondo College.

To acquire the **Certificate of Achievement in CSU-GE Breadth**, courses must have been approved for the CSU-GE Breadth area during the term in which the course was taken (please verify approval dates on www.assist.org). A grade of "C-" or better is required for courses taken in areas A1, A2, A3, and B4.

IGETC CERTIFICATE OF ACHIEVEMENT

The Intersegmental General Education Transfer Curriculum (IGETC) is a set of courses designed to fulfill all lower-division general education requirements for California State University and University of California campuses, as well as lead to a certificate of achievement at Rio Hondo College.

To acquire the **Certificate of Achievement in IGETC**, it is necessary to complete the Intersegmental General Education Transfer Curriculum requirements listed in this catalog with a grade of "C" or better. Courses must have been approved for the IGETC area during the term in which the course was taken (please verify approval dates on www.assist.org).

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

ART 101	Introduction to the Fine Arts	3
ART 104	Art of the Ancient Americas.....	3
ART 105 or ART 105H	*Survey of Western Art: Prehistory through the Middle Ages	3
ART 106 or ART106H	*Survey of Western Art: Renaissance to Contemporary	3
ART 107	The Art of Asia.....	3
ART 108	The Art of Mexico	3
ART 109	American Art History.....	3
ART 110	Understanding Visual Art	3
ART 112	Visual Art in the Modern Era.....	3
ART 113	The History of Photography.....	3
ART 115	The Art of Film	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 130	Freehand Drawing I	3
ART 135	Beginning Painting.....	3
ART 140	Ceramics I	3
DANC 179	Dance History.....	3
DANC 199	Dance Appreciation	3
MUS 101	Fundamentals of Music	3
MUS 120	Concert Choir I	2
MUS 129	Music in Latin American Culture.....	3
MUS 130	Music History and Literature Before 1750.....	3

MUS 131	Music History and Literature After 1750.....	3
MUS 132	History of Rock and Roll.....	3
MUS 133	Music Appreciation.....	3
MUS 134	Chamber Singers	2
MUS 135	Music in Film	3
MUS 136	History of Jazz.....	3
PHOTO 190	Beginning Photography.....	3
THTR 101	Theatre Arts Appreciation.....	3
THTR 105 or THTR 105H	*The History and Development of the Theatre	3
THTR 110	Principles of Acting.....	3
THTR 150	Theatre Crafts.....	3

B) HUMAN EXPRESSION

ASL 149	American Sign Language I.....	4
CHIN 101	Chinese I.....	4
CHIN 102	Chinese II	4
CHST 146	The Mexican American in the History of the U.S.	3
ENGL 126	Languages of the World	3
FR 101	French I.....	4
FR 102	French II	4
FR 201	French III.....	4
FR 202	French IV.....	4
HIST 101	History of World Civilization to the 17th Century	3
HIST 102	History of World Civilization, 1500 to the Present.....	3
HIST 122	History of Mexico.....	3
HIST 131	History of the North American Indian.....	3
HIST 143 or HIST 143H	*History of the United States to 1877.....	3
HIST 144 or HIST 144H	*History of the United States Since 1865.....	3
HIST 158	US Comparative History of American Indians and Black Americans	3
HIST 159 or HIST 159H	*US Comparative History of Mexican and Asian Americans and Women	3
HIST 167	History of California.....	3
HIST 170	Women in American History	3
HUM 110	Survey of Humanities	3
HUM 111	Survey of Humanities	3
HUM 125 or HUM 125H	*Introduction to Mexican Culture.....	3
JAPN 101	Japanese I.....	4

GENERAL STUDIES

CONTINUED

JAPN 102	Japanese II	4
LATN 101	Latin I	4
LATN 102	*Latin II	4
LIT 102 or LIT 102H	*Approaches to Literature	3
LIT 112A or LIT 112AH	*American Literature	3
LIT 112B or LIT 112BH	*American Literature	3
LIT 114 or LIT 114H	*Elementary and Adolescent Literature	3
LIT 117 or LIT 117H	Mexican Literature in Translation.....	3
LIT 130 or LIT 130H	*Women and Literature	3
LIT 140 or LIT 140H	*Introduction to the Novel.....	3
LIT 141	*Introduction to Poetry	3
LIT 142 or LIT 142H	*Introduction to Shakespeare	3
LIT 144A	*World Literature	3
LIT 144B	*World Literature	3
LIT 145 or LIT 145H	*Introduction to the Short Story.....	3
LIT 146A or LIT 146AH	*British Literature.....	3
LIT 146B or LIT 146BH	*British Literature	3
LIT 147	*Cinema as Literature	3
LIT 148	Introduction to Dramatic Literature	3
LIT 149	Introduction to Chicana/Chicano Literature	3
PHIL 101 or PHIL 101H	*Introduction to Philosophy	3
PHIL 120	Introduction to Ethics.....	3
PHIL 124	History of Philosophy: Ancient.....	3
PHIL 126	History of Philosophy: Modern.....	3
PHIL 128	Introduction to Political Philosophy.....	3
PHIL 135	Philosophy & Contemporary Issues.....	3
PHIL 140	Philosophy of Religion.....	3
PHIL 150	Introduction to World Religions	3
POLS 128 or POLS 128H	*Introduction to Political Philosophy.....	3
SPAN 101	Spanish I	4
SPAN 102	*Spanish II	4
SPAN 130	Spanish for Heritage Speakers I.....	3
SPAN 131	*Spanish for Heritage Speakers II	3
SPAN 201 or SPAN 201H	*Spanish III	4
SPAN 202	*Spanish IV	4
SPCH 130	Oral Interpretation.....	3
SPCH 132	Readers Theatre	3

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 below (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

ANTH 101 or ANTH 101H	*Introduction to Physical Anthropology.....	3
ANTH 102 or ANTH 102H	*Introduction to Cultural Anthropology	3
ANTH 103	Introduction to Archaeology	3
ANTH 104	Introduction to Language and Culture.....	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
CHST 101	Introduction to Chicano Studies	3
CHST 146	The Mexican American in the History of the U.S	3
CHST 148	La Chicana: The Contemporary Mexican-American Female	3
CHST 150	Chicano Politics.....	3
CD 106	Child Growth and Development.....	3
CD 208	Child, Family and Community.....	3
ECON 101 or ECON 101H	*Principles of Macroeconomics.....	3
ECON 102 or ECON 102H	*Principles of Microeconomics.....	3
ECON 106	Economics of Contemporary Issues.....	3
ECON 135	International Political Economy.....	3
HIST 101	History of World Civilization to the 17th Century	3
HIST 102	History of World Civilization, 1500 to the Present.....	3
HIST 122	History of Mexico	3

GENERAL STUDIES

CONTINUED

HIST 131	History of the North American Indian.....	3
HIST 143 or HIST 143H	*History of the United States to 1877.....	3
HIST 144 or HIST 144H	*History of the United States Since 1865.....	3
HIST 158	US Comparative History of American Indians and Black Americans.....	3
HIST 159 or HIST 159H	*US Comparative History of Mexican and Asian Americans & Women.....	3
HIST 167	History of California.....	3
HIST 170	Women in American History.....	3
HUM 130	Contemporary Mexican-American Culture.....	3
GEOG 102	Introduction to Cultural Geography.....	3
GEOG 103	World Regional Geography.....	3
PHIL 128	Introduction to Political Philosophy.....	3
POLS 110 or POLS 110H	*Government of the United States.....	3
POLS 128 or POLS 128H	*Introduction to Political Philosophy.....	3
POLS 135	International Political Economy.....	3
POLS 130	Comparative Government.....	3
POLS 140	International Relations.....	3
POLS 150	Chicano Politics.....	3
PSY 101 or PSY 101H	*Introductory Psychology.....	3
PSY 112	Lifespan Development.....	3
PSY 114	Introduction to Abnormal Psychology.....	3
PSY 121	Drugs, Society, and Behavior.....	3
HUSR 123	Drug Education and Prevention.....	3
PSY 170	Introduction to Learning and Memory.....	3
PSY 180	Positive Psychology.....	3
PSY 200	*Research Methods in Psychology.....	3
READ 101	*Critical Reading.....	3
SOC 101 or SOC 101H	*Introduction to Sociology.....	3
SOC 102	Major Social Problems.....	3
SOC 105	Introduction to Human Sexuality.....	3
SOC 110	Human Sexuality from a Cross-Cultural Perspective.....	3
SOC 114	Marriage, Family and Intimate Relationships.....	3
SOC 116	Introduction to Race and Ethnic Relations.....	3
SOC 120	Perspectives of Sex and Gender.....	3
SOC 127	Introduction to Criminology.....	3
SOC 148	La Chicana: The Contemporary Mexican-American Female.....	3
SPCH 100	Interpersonal Communications.....	3
SPCH 101 or	*Public Speaking.....	3

SPCH 101H		
SPCH 102	Fundamentals of Oral Communication	3
SPCH 140	Argumentation and Debate.....	3

B) Growth and Purpose/Health and Wellness

COUN 101	College and Life Success.....	3
COUN 151	Career Exploration & Life Planning.....	3
EDEV 101	College and Life Success.....	3
KIN 191	Health: Personal Issues.....	3
KIN 192	Health: Women's Personal Health.....	3
KIN 196	Health: Fitness and Wellness.....	3

*Prerequisite

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 104	Introduction to Language and Culture.....	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
CHST 101	Introduction to Chicano Studies.....	3
CHST 146	The Mexican American in the History of the U.S.....	3
CHST 148	La Chicana: The Contemporary Mexican-American Female.....	3
CHST 150	Chicano Politics.....	3

GENERAL STUDIES

CONTINUED

ECON 101 or ECON 101H	*Principles of Macroeconomics..... 3	SOC 105	Human Sexuality..... 3
ECON 102 or ECON 102H	*Principles of Microeconomics 3	SOC 110	Human Sexuality from a Cross-Cultural Perspective..... 3
ECON 106	Economics of Contemporary Issues..... 3	SOC 114	Marriage, Family and Intimate Relationships..... 3
ECON 135	International Political Economy..... 3	SOC 116	Introduction to Race and Ethnic Relationships..... 3
GEOG 102	Introduction to Cultural Geography 3	SOC 120	Perspectives of Sex & Gender 3
GEOG 103	World Regional Geography..... 3	SOC 127	Introduction to Criminology..... 3
HIST 101	History of World Civilization to the 17th Century 3	SOC 148	La Chicana: The Contemporary Mexican-American Female 3
HIST 102	History of World Civilization, 1500 to the Present..... 3		
HIST 122	History of Mexico..... 3		
HIST 131	History of the North American Indian..... 3		
HIST 143 or HIST 143H	*History of the United States to 1877..... 3		
HIST 144 or HIST 144H	*History of the United States Since 1865..... 3		
HIST 158	US Comparative History of American Indians and Black Americans 3		
HIST 159 or HIST 159H	*US Comparative History of Mexican and Asian Americans and Women 3		
HIST 167	History of California..... 3		
HIST 170	Women in American History 3		
HUM 130	Contemporary Mexican-American Culture..... 3		
PHIL 128	Introduction to Political Philosophy..... 3		
POLS 110 or POLS 110H	*Government of the United States 3		
POLS 128	Introduction to Political Philosophy..... 3		
POLS 130	Comparative Government 3		
POLS 135	International Political Economy..... 3		
POLS 140	International Relations 3		
POLS 150	Chicano Politics..... 3		
PSY 101 or PSY 101H	*Introductory Psychology 3		
PSY 112	Lifespan Development..... 3		
PSY 114	Introduction to Abnormal Psychology..... 3		
PSY 170	Introduction to Learning and Memory 3		
PSY 180	Positive Psychology 3		
PSY 200	*Research Methods in Psychology..... 3		
SOC 101 or SOC 101H	*Introduction to Sociology 3		
SOC 102	Major Social Problems..... 3		

GENERAL STUDIES

CONTINUED

ASSOCIATE OF SCIENCE DEGREE

General Studies with an Emphasis in Science and Mathematics:

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

ANTH 101 or ANTH 101H	*Introduction to Physical Anthropology.....	3
ANTH 101L	Physical Anthropology Lab.....	1
BIOL 101	General Biology.....	4
BIOL 105	Human Biology.....	3
BIOL 105L	Human Biology Laboratory.....	1
BIOL 111	Marine Biology.....	3
BIOL 111L	*Marine Biology Laboratory.....	1
BIOL 112	Outdoor Biology.....	3
BIOL 120	Environmental Biology.....	3
BIOL 120L	*Environmental Biology Laboratory.....	1
BIOL 200	*Principles of Biology 1 (Molecular and Cellular Biology).....	5
BIOL 201	*Principles of Biology 2 (Diversity and Ecology).....	5
BIOL 222	*Microbiology.....	5
BIOL 226	*Human Physiology.....	4
PSY 210 or PSY 210H	*Biological Psychology.....	3

B) Physical Sciences

ASTR 110 or ASTR 110H	*General Astronomy.....	3
ASTR 112	*Observational Astronomy.....	1
CHEM 110	*Chemistry for Allied Health Majors.....	5
CHEM 120	*Introduction to Chemistry.....	5
CHEM 130	*General Chemistry.....	5
CHEM 140	*General Chemistry.....	5
CHEM 230	*Organic Chemistry.....	5
CHEM 231	*Organic Chemistry.....	5
GEOG 101	Introduction to Physical Geography.....	3
GEOG 101L	*Introduction to Physical Geography Laboratory.....	1
GEOL 150	Physical Geology.....	3
GEOL 151	*Physical Geology Laboratory.....	1
PHY 120	*Physics for Everyday Use.....	4
PHY 150	*General Physics-I.....	4
PHY 160	*General Physics-II.....	4
PHY 211	*Physics for Scientists and Engineers-I.....	4
PHY 212	*Physics for Scientists and Engineers-II.....	4
PHY 213	*Physics for Scientists and Engineers-III.....	4

C) Mathematics

MATH 130 or MATH 130H	*Statistics.....	4
MATH 140	*Mathematics for Elementary Teachers.....	4
MATH 160	*College Algebra.....	4
MATH 170	*Elements of Calculus.....	4
MATH 175	*Plane Trigonometry.....	3
MATH 180	*Pre-Calculus.....	4
MATH 190 or MATH 190H	*Calculus I.....	4
MATH 191	*Calculus II.....	4
MATH 250	*Calculus III.....	4
MATH 260	*Linear Algebra.....	4
MATH 270	*Differential Equations.....	4
PSY 190	*Statistics for the Behavioral Sciences.....	4

*Prerequisite

GEOGRAPHIC INFORMATION SYSTEMS

DIVISION OF CAREER & TECHNICAL EDUCATION

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:

Required Courses		Units
GIS 120	Introduction to Geographic Information Systems and Spatial Analysis.....	4
GIS 220	*GIS Applications.....	4
GIS 221	*Cartography Design and Geographic Information Systems.....	4
ENGT 150 or	AutoCAD for Basic CADD Applications	4
ENGT 170	MicroStation for Basic CADD Applications.....	4
<i>Select one of the following focus areas below:</i>		
GIS 230	*Geographic Information Systems in Environmental Technology	3
CIV 142	Introduction to Surveying and GPS	4
GIS 281	Crime Mapping and Analysis	4

Units Required 19 - 20

**Prerequisite*

GRAPHIC DESIGN

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF SCIENCE DEGREE

The courses listed in the Associate of Science Degree are Graphic Designers produce solutions to visual communication problems for their clients' products services and messages. The form of the communication can be print or digital, and include photographs, typography, illustration and graphic forms. The work produced includes branding and identity designs, publication designs, advertising, packaging, motion graphics, websites, information architecture, and other types of communication design.

NOTE: Students interested in transferring as a Graphic Design major should consult with a counselor for appropriate general education & major preparation counseling.

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

Required Courses

	Units
ART 106 or ART 106H	*Survey of Western Art Renaissance to Contemporary..... 3
ART 120	Two Dimensional Design..... 3
ART 121	Three Dimensional Design 3
ART 124	Color Theory..... 3
GDSN 162	Introduction to Web Design: User Experience Design (UX) 3
GDSN 163	*Intermediate Web Design: Interactive Design 3
GDSN 164	Digital Illustration (Illustrator) 3
GDSN 165	*Branding and Identity Design..... 3
GDSN 172	Publication Design (InDesign)..... 3
GDSN 178	Digital Imaging (Photoshop)..... 3

Units Required 30

**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 prepare an individual for entry-level employment as a Heavy Equipment Service Technician at a modern heavy equipment and machinery facility.

To acquire the **Associate of Science Degree in Heavy Equipment Technology**, 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	Units
HET 140	*Heavy Equipment Electrical Diagnostics..... 4
HET 150	*Heavy Equipment Fuel Systems and Emissions..... 4
HET 160	*Heavy Equipment Diesel Engines 4
HET 200	*Heavy Equipment Hydraulic Fundamentals 4
HET 210	*Heavy Equipment Hydraulic Diagnostics 4
HET 220	*Heavy Equipment Powertrains I..... 4
HET 230	*Heavy Equipment Powertrains II..... 4
HET 240	*Heavy Equipment Heating, Ventilation, and Air Conditioning..... 4

Units Required 32

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Heavy Equipment Service Technician

The courses listed in the Certificate of Achievement are comprised of a comprehensive list of job skills needed to enter the heavy equipment field. The skills developed during class will prepare an individual for entry-level employment as a Heavy Equipment Service Technician at a modern heavy equipment and machinery facility.

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

Required Courses	Units
HET 140	*Heavy Equipment Electrical Diagnostics..... 4
HET 150	*Heavy Equipment Fuel Systems and Emissions..... 4
HET 160	*Heavy Equipment Diesel Engines 4
HET 200	*Heavy Equipment Hydraulic Fundamentals 4
HET 210	*Heavy Equipment Hydraulic Diagnostics 4
HET 220	*Heavy Equipment Powertrains I..... 4
HET 230	*Heavy Equipment Powertrains II..... 4
HET 240	*Heavy Equipment Heating, Ventilation, and Air Conditioning..... 4

Units Required 32

**Prerequisite*

HEAVY EQUIPMENT TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Heavy Equipment Diesel Engines Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment diesel engine service technician at a modern heavy equipment and machinery repair facility.

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

Required Courses	Units
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting.....	4
HET 150 *Heavy Equipment Fuel Systems and Emissions	4
HET 160 *Heavy Equipment Diesel Engines	4

Units Required 12

**Prerequisite*

Heavy Equipment General Service Technician

The courses required in this Certificate of Achievement are comprised of a comprehensive list of job-related skills needed to acquire general heavy equipment skills. The skills acquired during class will prepare an individual for entry-level employment as a general heavy equipment service technician, such as a Lube or Periodic Maintenance technician or other positions within a heavy equipment repair facility.

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

Required Courses	Units
HET 101 Introduction to Heavy Equipment Technology	4
HET 106 Heavy Equipment Electrical Fundamentals	4
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting	4
HET 290 Cooperative Work Experience/Internship for Heavy Equipment Technology Related Fields.....	1
WELD 040 Introduction to Welding Processes.....	2

Units Required 15

**Prerequisite*

Heavy Equipment Electronics Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will help one pass the certification license (EPA Rule 1411) for Motor Vehicle Air Conditioning Service. The certificate is designed to prepare an individual for entry-level employment as a Heavy Equipment Electrical/Electronic Systems and/or Heating, Ventilation and Air Conditioning Service/Repair technician.

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

Required Courses	Units
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting.....	4
HET 140 *Heavy Equipment Electrical Diagnostics	4
HET 240 *Heavy Equipment Heating, Ventilation and Air Conditioning.....	4

Units Required 12

**Prerequisite*

Heavy Equipment Hydraulics Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment hydraulics technician at a modern heavy equipment and machinery repair facility.

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

Required Courses	Units
HET 107 *Heavy Equipment Operation, Performance Testing and Adjusting.....	4
HET 200 *Heavy Equipment Hydraulic Fundamentals	4
HET 210 *Heavy Equipment Hydraulic Diagnostics	4

Units Required 12

**Prerequisite*

HEAVY EQUIPMENT TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

CERTIFICATE OF ACHIEVEMENT

Heavy Equipment Powertrains Technician

The courses listed in this certificate compile a comprehensive list of job-related skills needed to enter the heavy equipment field. The skills acquired during class will prepare an individual for entry-level employment as a heavy equipment powertrain systems service technician at a modern heavy equipment and machinery repair facility.

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

Required Courses	Units
HET 107	*Heavy Equipment Operation, Performance Testing and Adjusting..... 4
HET 220	*Heavy Equipment Powertrains I..... 4
HET 230	*Heavy Equipment Powertrains II..... 4

Units Required 12

**Prerequisite*

HISTORY

DIVISION OF BEHAVIORIAL & SOCIAL SCIENCE

ASSOCIATE IN ARTS IN HISTORY FOR TRANSFER



Associate Degree for Transfer

A Degree with a Guarantee.SM

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. In addition to studying the history of the United States, history majors will study other civilizations and cultures gaining a broader perspective and better understanding of the contemporary world. Through a diverse curriculum, students learn to gather, synthesize, analyze and interpret historical evidence, building a strong foundation that prepares students to either transfer to a four-year college or succeed in numerous career paths, such as teaching, law, business administration, journalism and public service.

In addition to the courses listed below, the following 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 (CSU GE) pattern; OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

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

Required Courses	Units
HIST 101	History of World Civilization to the 17th Century..... 3
HIST 102	History of World Civilization, 1500 to the Present 3
HIST 143 or HIST 143H	History of the United States to 1877 *History of the United States to 1877 Honors 3
HIST 144 or HIST 144H	History of the United States Since 1865 *History of the United States Since 1865 Honors 3

Choose one course from the following list:

HIST 158	US Comparative History of American Indians and Black Americans 3
HIST 159 or HIST 159H	*US Comparative History of Mexican and Asian Americans & Women..... 3 US Comparative History of Mexican and Asian Americans & Women Honors..... 3
HIST 170	Women in American History 3
HIST 122	History of Mexico 3

Choose one course from the following list:

HIST 167	History of California 3
ECON 101 or ECON101H	*Principles of Macroeconomics *Principles of Macroeconomics Honors..... 3
ECON 102 or ECON102H	*Principles of Microeconomics *Principles of Microeconomics Honors..... 3
GEOG 102	Introduction to Cultural Geography..... 3
PHIL 101 or PHIL 101H	Introduction to Philosophy *Introduction to Philosophy Honors..... 3
POLS 110 or POLS110H	Government of the United States * Government of the United States Honors..... 3
POLS 150/ CHST150	Chicano Politics 3

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:

Required Courses		Units
AUTO 045	*Honda/Acura Express Service	4
AUTO 0451	Honda/Acura Chassis Electrical Systems.....	4
AUTO 046	Honda/Acura Automatic Transmission Systems.....	4
AUTO 0461	Honda/Acura Occupant Safety Systems.....	4
AUTO 102	Introduction to Honda/Acura Service and Repair.....	3
AUTO 125	*Power Train System Service and Transmission Diagnostics	4
AUTO 140	*Body and Chassis Electrical Systems.....	4
AUTO 150	*Engine Electrical Systems.....	4
AUTO 160	*Upper End Engine Rebuilding and Machining.....	4
AUTO 201	*Automotive Brake and Suspension Service.....	4
AUTO 240	*Heating and Air Conditioning.....	4

Units Required 43

**Prerequisite*

HONDA PROFESSIONAL CAREER TRAINING PROGRAM SPECIALIZATION (PACT)

DIVISION OF CAREER & TECHNICAL EDUCATION

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:

Required Courses	Units
AUTO 102 Introduction to Honda/Acura Service and Repair.....	3
AUTO 0461 Honda/Acura Occupant Safety Systems.....	4
AUTO 240 *Heating and Air Conditioning.....	4
AUTO 106 or Automotive Electrical Tools and Diagnostic Procedures.....	3
AUTO 290 Cooperative Work Experience/ Internship for Automotive Technology-Related Fields	3

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:

Required Courses	Units
AUTO 102 Introduction to Honda/Acura Service and Repair	3
AUTO 140 *Body and Chassis Electrical Systems	4
AUTO 201 *Automotive Brake and Suspension Service	4
AUTO 045 or *Honda/Acura Express Service	4
AUTO 290 Cooperative Work Experience/ Internship for Automotive Technology-Related Fields	4

Units Required 15

*Prerequisite

HONDA PROFESSIONAL CAREER TRAINING PROGRAM SPECIALIZATION (PACT)

DIVISION OF CAREER & TECHNICAL EDUCATION

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:

Required Courses	Units
AUTO 102 Introduction to Honda/Acura Service and Repair	3
AUTO 0451 Honda/Acura Chassis Electrical Systems	4
AUTO 150 *Engine Electrical Systems.....	4
AUTO 160 *Upper End Engine Rebuilding and Machining.....	4

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:

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

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.

Required Courses		Units
HUSR 111	Human Services in Contemporary Society.	3
HUSR 122	Introduction to Group Leadership and Process	3
HUSR 124	Introduction to Case Management and Documentation.....	3
HUSR 199	*Fieldwork in Human Services	3
SOC 102	Major Social Problems	3

Units Required 15

**Prerequisite*

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:

Required Courses	Units
ACCT 101 Financial Accounting.....	4
BUSL 110 Legal Environment of Business	3
LOG 101 Supply Chain Management.....	3
MGMT 108 Business Writing.....	3
MGMT 140 Introduction to International Business.....	3
MGMT 141 International Marketing.....	3
MGMT 142 International Management.....	3
MGMT 143 Import and Export Business	3
MGMT 144 International Banking & Finance.....	3

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:

Required Courses	Units
MGMT 140 Introduction to International Business	3
MGMT 141 International Marketing.....	3
MGMT 142 International Management	3
MGMT 143 Import & Export Business	3
MGMT 144 International Banking & Finance.....	3
MGMT 290 Cooperative Work Experience/ Internship for Business Management Related Fields.....	3-4

Units Required 18 or 19

JOURNALISM

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN JOURNALISM FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.SM

Associate in Arts in Journalism for Transfer

The Associate in Arts in Journalism for Transfer (AA-T) Degree is intended to meet the lower division requirements for Journalism majors (or similar majors) at a CSU campus that offers a Journalism baccalaureate degree.

This degree is designed for students interested in an introduction to the field of Journalism and for students looking to further their education in the field of Journalism to best be prepared to enter the job market. Students will demonstrate a wide breadth and depth of understanding of mass media theories, methods and concepts. The degree is intended for students who are interested in Journalism and are planning on transferring to a California State University and majoring in Journalism or Mass Communications. Other similar Mass Communication concentrations are Broadcast Journalism, Entertainment Studies, Photo Communications and Public Relations.

In addition to the courses listed below, the following additional requirements must be met for completion of the AA-T Degree in Journalism:

1. Completion of 60 CSU-transferable semester units.
2. Achievement of a minimum GPA of at least 2.0 in all CSU-transferable coursework. (Some majors may require a higher GPA. Students should consult with a counselor for more information.)
3. Completion of the 19-21.5 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.

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

REQUIRED COURSES

	Units
MSCM 128	Mass Media In Modern Society 3
JOUR 120	Communications Reporting and Writing 3
JOUR 241 or JOUR 242	*Newspaper Production I 4
	Digital Newspaper I 4

LIST A: Select one (3-4 units)

JOUR 110	Digital Photo Journalism 3
JOUR 243 or JOUR 244	*Newspaper Production II 4
	*Digital Newspaper Production II 4

LIST B: Select two (6-8 units)

GDSN 172	Publication Design (InDesign) 3
ECON 101 or ECON 101H	*Principles of Macroeconomics 3
	*Principles of Macroeconomics Honors 3
ENGL 201 or ENGL 201H	*Advanced Composition 3.5
	*Advanced Composition Honors 3.5
JOUR 147	Broadcast News 3
MATH 130 or MATH 130H or PSY 190	*Statistics 4
	*Statistics Honors 4
	*Statistics for the Behavioral Sciences 4
PHIL 112 or PHIL 112H	Introduction to Logic 3
PHTO 190	*Introduction to Logic Honors 3
POLS 110 or POLS 110H	Beginning Photography 3
	Government of the United States 3
	*Government of the United States Honors 3
POLS 130	Comparative Government 3
SPCH 140 or SPCH 240	Argumentation and Debate 3
	*Argumentation and Discussion 3

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

JOUR 110	Digital Photo Journalism 3
JOUR 243 or JOUR 244	*Newspaper Production II 4
	*Digital Newspaper Production II 4

Required Subtotal 19-21.5

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

Degree Total 60

**Prerequisite*

KINESIOLOGY

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

ASSOCIATE IN ARTS IN KINESIOLOGY FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.SM

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.

Required Courses

	Units
BIOL 125 Human Anatomy	4
BIOL 226 *Human Physiology	4
KIN 194 Introduction to Kinesiology.....	3

Movement Based Courses - Select a maximum of one (1) course from any three (3) of the following areas for a minimum of three (3) units:

AQUATICS

KINA 117 Swimming I	1
KINA 217 Swimming II	1

COMBATIVE

KINA 124 Self-Defense	1
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DANCE

DANC 151 Modern Dance	1
DANC 168 Latin Social Dance	1

FITNESS

KINA 120 Swim for Fitness	1
KINA 132 Aqua Aerobics.....	1
KINA 134 Cardio Boot Camp.....	1
KINA 136 Pilates Mat I.....	1
KINA 140 Fitness Walking	
KINA 158 Yoga.....	1

INDIVIDUAL SPORTS

KINA 101 Tennis I.....	1
KINA 107 Badminton I.....	1
KINA 113 Golf I.....	1

TEAM SPORTS

KINA 103 Softball I	1
KINA 104 Volleyball I	1
KINA 105 Basketball I	1
KINA 109 Soccer I	1

Choose 2 courses from the following:

MATH 130 or	*Statistics.....	4
MATH 130H or	*Statistics Honors.....	4
PSY 190	*Statistics for the Behavioral Sciences.....	4
CHEM 130	*General Chemistry.....	5
PHY 150 or	*General Physics I	4
PHY 211	*Physics for Scientists and Engineers I	4
KIN 193	First Aid and C.P.R.....	3

Required Subtotal 21 - 23

CSU GE or IGETC PatternVaries
Transferable Electives (as needed to reach 60 transferable units)

Degree Total 60

*Prerequisite

KINESIOLOGY/SPORTS MEDICINE

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree is designed to give students interested in a career in sports medicine, athletic training or physical therapy an opportunity to develop, practice and implement fundamental skills in the prevention, treatment and rehabilitation of various athletic/orthopedic injuries and related medical conditions. Using a combination of dynamic classroom learning and clinical experience, this program will set a foundation that will aid in the pursuit of a multitude of allied healthcare professions. Completion of this degree will also prepare students for further study or to obtain employment as an entry-level rehabilitation/allied health paraprofessional. Earning this degree may facilitate the student's transfer to a CSU and/or professional program. Students must attain a grade of "C" or higher in each course for successful completion of the degree.

To acquire the **Associate of Science Degree in Kinesiology/Sports Medicine**, it is necessary to complete the graduation requirements of the College along with the following courses:

REQUIRED COURSES		Units
KIN 197	Prevention and Treatment of Athletic Injuries.....	3
KIN 297	*Advanced Athletic Training.....	3
KIN 290	*CWE/Internship for Athletic Training Related Fields	4
KIN 193	Standard First Aid and CPR.....	3
KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning.....	3
PSY 101	Introductory Psychology	3
BIOL 125	Human Anatomy	4
BIOL 226	*Human Physiology.....	4

Degree Total/Units Required 30

**Prerequisite*

KINESIOLOGY/COACHING OF SPORTS

DIVISION OF KINESIOLOGY, DANCE, AND ATHLETICS

CERTIFICATE OF ACHIEVEMENT

Coaching of Sports

The Coaching of Sports Certificate of Achievement is designed to prepare students for employment as a coach in the sporting/athletic career field. It is possible to complete this certificate in one calendar year. The curriculum has been designed to equip the student with the background, both theoretical and practical to pursue a job as a coach. Students will be prepared to take the mandatory C.I.F. test for employment. Courses in nutrition, strength and conditioning, first aid or athletic training will prepare the student for responsibilities in the field of coaching. The intent of this program is to prepare students in field of physical activity so they may pursue a career in coaching. The classes offered will help student as they continue to pursue this career path. The program will prepare students for immediate entry-level employment in the field of coaching.

Required Courses:

		Units
KIN 122	Nutrition for Sport and Fitness	3
KIN 126	Principles of Strength and Conditioning	3
KIN 195	Social Issues/Media in Sport	3
KIN 157	Theory of Lifeguard Training and Water Safety Instruction	3
or		
KIN 188	Theory and Practice of Coaching	3
KIN 193	Standard First Aid and CPR	3
or		
KIN 197	Prevention and Treatment of Athletic Injuries	3

Degree Total/Units Required 15

KINESIOLOGY/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:

Required Courses	Units
KIN 115	*Fitness Specialist Internship..... 2
KIN 122	Nutrition for Sport and Fitness 3
KIN 126	Principles of Strength and Conditioning..... 3
KIN 127	Exercise Physiology..... 3
KIN 128	Fitness Testing and Exercise Prescription 3
KIN 131	Structure and Analysis of Movement..... 3
KIN 145	Theory and Analysis of Fitness Instruction 2
KIN 146	Training Principles for Special Populations..... 2
<i>Choose two courses from the list below:</i>	
KINA 130	Lifelong Fitness Laboratory 1
KINA 136	Pilates Mat I..... 1
KINA 158	Yoga I..... 1

Units Required 23

**Prerequisite*

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.

Required Courses

	Units
KIN 290	*Internship for Athletic Training 4
KIN 193	Standard First Aid and CPR..... 3
KIN 194	Introduction to Kinesiology..... 3
KIN 197	Prevention and Treatment of Athletic Injuries..... 3
KIN 297	*Advanced Athletic Training 3

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:

Required Courses	Units
BUSL 110 Legal Environment of Business	3
LOG 101 Supply Chain Management	3
LOG 105 Purchasing Management	3
LOG 110 Warehouse Management	3
LOG 115 Inventory Management	3
MGMT 101 Introduction to Business	3
CIT 101 or Introduction to Computer Information Technology	3
LOG 130 Computerized Logistics	3

Choose one of the following classes:

ACCT 090 or Introduction to Accounting	3
ACCT 101 Financial Accounting	4
	24 or 25

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

GIS 120 Introduction to Geographic Information Systems and Spatial Analysis	4
LOG 120 Transportation Management	3
LOG 125 Contract Management	2
.....	2

TOTAL UNITS 33 or 34

International Trade Specialization Courses: Units

MGMT 140 Introduction to International Business	3
MGMT 142 International Management	3
MGMT 143 Import and Export Business	3
.....	2

TOTAL UNITS 33 or 34

Operations Management Specialization Units

LOG 135 Quality Management Concepts	3
MGMT 150 Principles of Management	3
MGMT 155 Principles of Leadership	3
.....	2

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:

Required Courses	Units
LOG 101 Supply Chain Management	3
LOG 105 Purchasing Management	3
LOG 110 Warehouse Management	3
LOG 115 Inventory Management	3

Choose two of the following courses:

LOG 120 Transportation Management	3
LOG 125 Contract Management	2
MGMT 101 Introduction to Business	3
MGMT 140 Introduction to International Business	3
MGMT 142 International Management	3
MGMT 143 Import & Export Business	3
MGMT 150 Principles of Management	3

Units Required 17-18

MANAGEMENT & SUPERVISION

DIVISION OF BUSINESS

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 student 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:

Required Courses	Units
BUSL 110	Legal Environment of Business 3
MGMT 101	Introduction to Business 3
MGMT 105	Supervision..... 3
MGMT 120	Human Relations in Business..... 3
MGMT 146	Human Resources Management 3
MGMT 150	Principles of Management..... 3
MRKT 170	Elements of Marketing..... 3

Choose one of the following:

CIT 101	Introduction to Computer Information Technology 3
MGMT 125	Managerial Computer Applications..... 3

Choose one of the following:

MGMT 108	Business Writing..... 3
MGMT 208	*Business Communications..... 3

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:

Required Courses	Units
BUSL 110	Legal Environment of Business 3
MGMT 101	Introduction to Business 3
MGMT 105	Supervision..... 3
MGMT 120	Human Relations in Business 3
MGMT 146	Human Resources Management 3
MGMT 150	Principles of Management..... 3
MRKT 170	Elements of Marketing..... 3

Choose one of the following:

CIT 101	Introduction to Computer Information Technology 3
MGMT 125	Managerial Computer Applications..... 3

Choose one of the following:

MGMT 108	Business Writing..... 3
MGMT 208	*Business Communications..... 3

Units Required 27

*Prerequisite

MASS COMMUNICATIONS/MASS MEDIA

DIVISION OF COMMUNICATIONS & LANGUAGES

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:

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

Units Required 31

**Prerequisite*

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:

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

Units Required 31

**Prerequisite*

MASS COMMUNICATIONS/ PRINT MEDIA SPECIALIZATION

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE OF SCIENCE DEGREE

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

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

Units Required 38

**Prerequisite*

CERTIFICATE OF ACHIEVEMENT

Print Media Specialization

The Mass Communications: Print Media Specialization Certificate is designed to provide a general technical background which will enable the student to make intelligent and realistic career decisions in mass communications; to provide a broad background which will afford the currently employed student an opportunity for upward mobility or career advancement; to provide a program to meet both the entry-level and skill upgrading needs of the local mass communications industry.

To acquire the **Certificate of Achievement in Mass Communications: Print Media Specialization**, it is necessary to complete the following courses:

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

Units Required 38

**Prerequisite*

MATHEMATICS

DIVISION OF MATHEMATICS & SCIENCES

ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

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.

Required Courses		Units
MATH 190 or MATH 190H	*Calculus I.....	4
MATH 191	*Calculus II.....	4
MATH 250	*Calculus III.....	4

Students must also choose 2 courses from the following list:

MATH 260	*Linear Algebra.....	4
MATH 270	*Differential Equations.....	4
<i>or replace MATH 260 or MATH 270 with one course below:</i>		
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*

MUSIC

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE OF ARTS DEGREE

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:

Required Courses		Units
MUS 101	Fundamentals of Music	3
MUS 103	*Music Theory I.....	3
MUS 104	*Music Theory II	3
MUS 106	*Beginning Musicianship I.....	3
MUS 107	*Beginning Musicianship II.....	3
MUS 145	Beginning Piano I.....	1.5
MUS 146	*Beginning Piano II	1.5
MUS 147	*Intermediate Piano I.....	1.5
MUS 148	*Intermediate Piano II.....	1.5
MUS 156	*Intermediate Musicianship I.....	3
MUS 157	*Intermediate Musicianship II.....	3

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	Concert Choir I	2
MUS 134	*Chamber Singers.....	2
MUS 138	Masterworks Chorale.....	2
MUS 139	*Advanced Concert Choir.....	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	Concert Choir II.....	2
MUS 234	*Advanced Chamber Singers.....	2

Units Required 35-37

**Prerequisite*

NURSING PROGRAMS OVERVIEW

DIVISION OF HEALTH SCIENCE AND NURSING

The Division of Health Science and Nursing

The Division of Health Science and Nursing offers two different types of programs: Associate Degree Nursing Program and Vocational Nursing Program. The division also offers three career certificates: Pre-Certification Nursing Assistant Course, Acute Care, and Home Health Aide. All three programs have exceptional pass rates on national exams and or state certification exams.

Associate Degree Nursing (ADN) Program

The ADN program is a two-year program designed to prepare students for employment as a registered nurse providing direct care to patients. Graduates receive an Associate in Science Degree of Nursing. Students who complete the program are qualified to take the examination leading to licensure as a Registered Nurse. In addition to the ADN program, we offer LVN to ADN Transition and a LVN-RN 30 Unit Option.

Associate Degree Nursing (LVN to ADN) Program

Licensed Vocational Nurses wishing to earn their Associate Degree in Nursing so they may qualify to take the examination for licensure as a Registered Nurse may enter the LVN to ADN Transition Program. This program is 2-1/2 semesters.

Associate Degree Nursing (LVN-RN 30-Unit Option) Program

Licensed Vocational Nurses wishing to qualify for licensure examination as a Registered Nurse but not obtain a degree may consider this 30-unit option.

The Vocational Nursing (VN) Program

The Vocational Nursing Program is a three-semester program following the completion of prerequisite courses. It is designed to prepare students for employment as a Vocational Nurse, giving care to patients in a variety of settings, such as acute hospitals, extended care facilities, home health care, surgical centers and medical offices. The program is 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. Students also have the option of obtaining an Associate of Science degree in Vocational Nursing.

Career Certificates Pre-Certification Nursing Assistant

This Career Certificate is designed for the student wishing to gain employment in the Acute Care, Long-Term Care or Assisted Living settings. Areas of emphasis will include taking care of geriatric patients in a long-term care setting utilizing skills in basic care, emergency care and

communication. The student will gain a general core knowledge of entry-level nursing skills through classroom instruction and hands on clinical time.

Career Certificate for Acute Care Certified Nursing Assistant

This Career Certificate is designed for the student who already has their CNA Certificate wishing to gain employment in the Acute Care Hospital setting. Areas of emphasis will include taking care of patients in the acute care setting utilizing skills in basic care, emergency care, communication skills, patient assessment, observation and reporting, with additional emphasis on the specialized acute care areas 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.

Career Certificate for 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.



NURSING PROGRAMS OVERVIEW CONTINUED

ADN Program Mission Statement

The Associate Degree Nursing Program (ADN) is committed to preparing students for the professional role of the registered nurse at the entry level. In addition, the aim of the program is to prepare the nursing student for academic advancement.

ADN Program Philosophy

The Associate Degree Nursing program engages students in a transformative process in which caring, diversity, holism, respect, civility, integrity, ethics and patient-centered care are valued and reinforced utilizing a collaborative approach to teaching and learning.

The curriculum incorporates Nursing Process, Erickson's Psycho Social Theory of Human Development, and theories of Stress and Adaptation. The Quality and Safety Education for Nurses model is used as a framework for education: Safety, Evidence-Based Practice, Patient-Centered Care, Teamwork and Collaboration, Informatics, and Quality Improvement.

Throughout the ADN Program are the following essential vertical threads: caring, critical thinking, a spirit of inquiry, and communication. Interlaced through the vertical threads are the horizontal threads of: management of care, safety and infection control, health promotion and maintenance, psychosocial integrity, basic care and comfort, pharmacological/parenteral therapies, reduction of risk potential, and physiological adaptation. These threads guide the student to progressively develop competency in understanding and delivering individualized nursing care.

ADN Program Outcomes

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

1. **Planner of Care:** The student will be able to utilize the Systems Developmental Stress Model and the Nursing Process to plan for and provide cultural, gender, and age appropriate patient care to a team of patients utilizing appropriate resources in an effective manner.
2. **Provider of Safe Skilled Care:** The student will be able to provide safe care to a group of patients in collaboration with other healthcare team members while delegating appropriately.
3. **Communicator:** The student will be able to effectively communicate with the patient, family, healthcare providers, and faculty and document according to clinical site parameters.
4. **Educator:** The student will be able to identify educational needs, create and deliver a teaching plan specific to the needs of the patient and family.
5. **Member of the Profession:** The student will display a professionalism while delivering care with caring and advocacy, mindful of ethical and legal obligations as a nurse.

ASSOCIATE DEGREE NURSING PROGRAM (RN) – GENERIC

A. ADMISSION REQUIREMENTS

1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION

- a. Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- b. Students must meet the admission requirements for Rio Hondo College.
- c. Completion of all three science prerequisites (Human Anatomy, Human Physiology, and Microbiology) with an overall Science GPA of at least a 2.5 with no grade less than "C" for each course. The student is limited to one repeat in any of the science courses to improve the grade. All science courses must be completed within 7 years from application.
- d. A cumulative college grade point average (GPA) of at least 2.5 for all college coursework taken.
- e. Applicants must meet graduate proficiency requirements for math and reading either by completing the minimal required courses or achieving an equivalent passing score on the assessment tests. Students who fail to achieve a passing score will be required to complete additional coursework prior to applying.
- f. Must complete English 101 College Composition and Research with a grade of C or higher.
- g. Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.0 will no longer be accepted for students entering the ADN program after January 1, 2017.

2. **HEALTH REQUIREMENTS** – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to all applicants who are provisionally selected and those applicants who are alternates to the program.

NURSING PROGRAMS OVERVIEW CONTINUED

3. PATIENT SAFETY AND BACKGROUND CHECKS –

Based on California Board of Registered Nursing, and clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student provisionally accepted. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if the background check meets clinical placement requirements. See the Dean of Health Science and Nursing with questions concerning this procedure. All students will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the students upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

B. ADMISSION PROCEDURE

1. Obtain a Rio Hondo Student ID number by applying to the college. Application for admission to the College shall be submitted to the Admissions Office.
2. Attend an information session: It is recommended that applicants to the Associate Degree Nursing Program attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing.
3. Applicants must complete and submit an Associate Degree Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the educational requirements are met.
4. Please check the Health Science and Nursing website for application deadlines.
5. Please bring one official copy of your high school transcripts, diploma or GED.
6. 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 Rio Hondo College Admissions and Records Office. The international evaluation of college coursework should be a detailed report.

C. ADMISSION SELECTION

Acceptance to the Associate Degree Nursing Program will be based on selection criteria which includes the following:

1. Overall Cumulative GPA
2. Cumulative Science GPA
3. Other College Degrees
4. Current Health Care Work Experience
5. Current Medical/Nursing certificates/licenses
6. Life Experience
7. Other Language Spoken
8. ATI Results

Students will be selected on the basis of overall scores with those having the most points given priority. The student's overall cumulative GPA for all college coursework taken, grades in the core science courses (anatomy, physiology, and microbiology), completion of college English, and the

number of repetitions of science core courses will be used to determine the student's eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of 2.5 in the science core courses, with no grade less than "C" for each course, have no more than one repetition of any of the science core courses, and completed ENGL 101, with a grade of "C" or better, will be considered eligible for admission.

Students who are accepted to the program will be admitted to ADN 151 by permission of the Health Science and Nursing Division. This course is a prerequisite for admission to ADN first semester course (ADN 150) and is offered in the Spring semester and Summer session. Students who complete ADN 151 with a grade of "C" or better will continue the program in the Fall semester. Students failing the first course will not be eligible to continue the program and will need to reapply for admission.

- D. EXPENSES** – Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

- E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID** – 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.

- F. REQUIREMENT FOR LICENSURE** – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

- G. TRANSFER STUDENTS** – All transfer students who have taken coursework in nursing at another nursing program will be evaluated on an individual basis throughout the academic year. Previous nursing coursework must be no older than three years. The student must present a letter from the director of the former nursing program, stating the circumstances necessitating the transfer, and an evaluation of clinical safety. Students who are deemed unsafe in the clinical area are not eligible for transfer to the Rio Hondo Associate Degree Nursing

NURSING PROGRAMS OVERVIEW CONTINUED

Program. Transfer students must demonstrate competence in clinical skills and pass a pharmacology math quiz with a score of 100% before admission to the program.

Above information subject to change

PSYCHIATRIC TECHNICIAN TO (RN) ASSOCIATE DEGREE NURSING

Determination of Eligibility for Admission to the ADN Program

Psychiatric Technicians wishing to become registered nurses follow the same admission procedures as those applicants for the associate degree nursing program. Psychiatric Technicians must also submit proof of their active California Psychiatric Technician license. PT-ADN students follow the same coursework of the ADN program as the Generic ADN students with the exception of receiving a waiver for ADN 252 and ADN 252L for prior knowledge and work as a Psychiatric Technician.

ASSOCIATE DEGREE NURSING PROGRAM – LVN TO ADN

Determination of Eligibility for Admission to the LVN to ADN Program

A. ADMISSION REQUIREMENTS

1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION –

- Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- Students must meet the admission requirements for Rio Hondo College.
- Copy of an active California Vocational Nurse license.
- Completion of all three science prerequisites (Anatomy, Physiology, and Microbiology) with an

overall science GPA of at least a 2.5 and no grade less than a C. The student is limited to one repeat in any of the science courses to improve the grade. All science courses must be a minimum of four units with a lab component. All science courses must be completed within the last seven years.

- A cumulative grade point average (GPA) of at least 2.5 for all college coursework taken.
- Applicants must meet the graduate proficiency requirements for math and reading either by completing the minimal required coursework or by achieving an equivalent passing score on the assessment tests prior to application to the program. Students who fail to achieve a passing score will be required to complete additional coursework in order to meet the minimal requirements.
- Only the first ATI TEAS score taken will be accepted. If a student has taken the ATI TEAS at another location, the first score will be accepted and must be a passing score to be eligible. TEAS test version V.O will no longer be accepted.

2. HEALTH REQUIREMENTS – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to all provisionally selected students and alternates.

B. ADMISSION PROCEDURE

- Application for admission to the College shall be submitted to the Admissions Office.
- 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.
- 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 Rio Hondo College Admissions and Records Office. The international evaluation of college coursework should be a detailed report.



NURSING PROGRAMS OVERVIEW CONTINUED

C. ADMISSION PROCESS – Acceptance to the Associate Degree LVN to ADN Nursing Program will be through the use of an admission's formula developed by the California Community College Chancellor's Office. The student's overall cumulative GPA for all college coursework taken, grades in the core science courses (anatomy, physiology, and microbiology), completion of college English, and the number of repetitions of science core courses will be used to determine the student's eligibility. Students who have at least an overall cumulative GPA of 2.5 for all college coursework taken, GPA of at least 2.5 in the science core courses, with no grade less than "C" for each course, have no more than one repetition of any of the science core courses, and completed ENGL 101, with a grade of "C" or better, will be considered eligible for admission.

ADN 075 – LVN Transition into the Associate Degree Program is a prerequisite for admission to ADN second year course 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.

D. EXPENSES – Uniforms, books, health and safety screenings, and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID – 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.

F. PATIENT SAFETY AND BACKGROUND CHECKS – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through

consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

The Board of Registered Nursing requires the applicant for licensure as a Registered Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

G. REQUIREMENT FOR LICENSURE – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

Above information subject to change.

NON GRADUATE 30 UNIT OPTION LVN TO RN

Determination of Eligibility for Admission to the LVN-RN Program

A. ADMISSION REQUIREMENTS

1. EDUCATIONAL REQUIREMENTS FOR PROGRAM APPLICATION –

- Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Associate or Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- Students must meet the admission requirements for Rio Hondo College.
- GPA of 2.5 or above in Health Science and Nursing Course 060, or equivalent, and Psychology 101 by October 1.
- Completion of Reading 023, ENGL 035, Math 030, or equivalent, with a grade "C" or better or exemption through assessment testing.
- 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.
- 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

NURSING PROGRAMS OVERVIEW CONTINUED

a passing score to be eligible. TEAS test version V.O is no longer accepted.

- 2. HEALTH REQUIREMENTS** – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Registered Nurse. For patient safety and successful achievement of course objectives, all applicants must be able to hear and see with the use of assistive devices. The program will make every effort to provide reasonable accommodations for all applicants. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to the provisionally accepted student.

B. ADMISSION PROCEDURE

- Application for admission to the College shall be submitted to the Admissions Office for the purpose of obtaining a student ID.
- It is strongly recommended that all students considering the the 30 Unit Option LVN to RN Program should attend a nursing information session to discuss the restrictions of this option and required prerequisites. Applicants must complete and submit an application to the Health Science and Nursing Division for admission consideration to the 30 unit Option LVN to RN Program.
- 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 SELECTION** – Acceptance to the 30 Unit Option will be through the use of an admission's formula developed by the California Community College Chancellor's Office. The student's overall cumulative GPA for all college coursework taken, grades in the core science courses (physiology and microbiology), 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 only once a year. Following admission, the student will be given a permit to register for this course. Following completion of this course, with a grade of "C" or better, the student will continue the program in the Fall semester

- D. EXPENSES** – Uniforms, books, health and safety screenings and miscellaneous expenses will vary according to distributors and medical providers. Cost per units will depend on college fees. Please see Admissions and Records for College Fee information. Students are responsible for providing their own transportation to clinical facilities.

E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL AID

– 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

F. PATIENT SAFETY AND BACKGROUND

CHECKS – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/ or having the record corrected. The Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.



NURSING PROGRAMS OVERVIEW CONTINUED

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

The Board of Registered Nursing requires the applicant for licensure as a Registered Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

G. REQUIREMENT FOR LICENSURE – The Board of Registered Nursing requires a valid social security number for licensure. The Board of Registered Nursing should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Registered Nursing can be reached at 916-322-3350.

Above information subject to change.

VOCATIONAL NURSING PROGRAM

The Vocational Nursing Program is a two and a half semester program following the completion of prerequisite courses. It is designed to prepare students for employment as a Vocational Nurse, giving care to patients in a variety of settings, such as acute hospitals, extended care facilities, home health care, surgical centers and medical offices. The program is accredited by the California State Board of Vocational Nursing and Psychiatric Technicians. Students, who complete the curriculum and achieve the career certificate are qualified to apply for the examination leading to licensure as a Licensed Vocational Nurse.

Philosophy of the Vocational Nursing Program

The philosophy of the Vocational Nursing Program is in harmony with the stated philosophy of 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 is a broad occupational field involving a multiplicity of functions performed by individuals, with varying degrees of preparation. It is essential that students be assisted to recognize and accept their responsibility and scope of practice.

The nursing faculty believes education is a continuing process and students should be provided with the attitudes, skills and knowledge to qualify for licensure as well as an upward mobility to the Vocational Nursing Program.

Determination of Eligibility for Admission to the LVN Program

A. ADMISSION REQUIREMENTS

1. Educational requirements for program application

- Proof of graduation from an accredited high school in the U.S.A. by transcript, diploma, or official international evaluation; Associate or Baccalaureate degree from an accredited institution of higher education in the U.S.A.; or documentation of passing score on the GED (General Education Development) exam.
- Students must meet the admission requirements for Rio Hondo College.
- Completion of HS 60 or Anatomy with a C or better.
- Completion of Psychology 101 with a C or better.
- Completion of READ 023, ENGL 035, MATH 030, 030D or 033 or equivalent, with a grade "C" or better or exemption through assessment testing.
- Current CPR Card (BLS 8-hour class for health care providers, all ages, 1-person, 2-person rescuer) provided by the American Heart Association will be required after admission.

2. HEALTH REQUIREMENTS – The applicant must be free from communicable diseases, infections, psychological disorders, and other conditions that would prevent the successful performance of the responsibilities and tasks required in the education and training of a Licensed Vocational Nurse. Upon acceptance into the program, the student must satisfactorily pass a health examination by a licensed physician or nurse practitioner and have various laboratory tests and immunizations, as needed, to determine physical and mental fitness. If a student enrolled in the program has developed a condition that would prevent successful performance of his/her responsibilities and tasks, the Dean of Health Science and Nursing may require the student to be examined by a licensed physician. If the licensed physician verifies the condition, then there is sufficient cause for suspension or expulsion from the program pursuant to Board Policy. Information on specific health requirements will be provided to the student upon admission to the program.

NURSING PROGRAMS OVERVIEW CONTINUED

B. ADMISSION PROCEDURE

1. Application for admission to the College shall be submitted to the Admissions Office.
2. Applicants to the Vocational Nursing Program should attend a nursing information session to discuss prerequisites, general education requirements for the degree, and basic skills testing. Applicants must complete and submit a Vocational Nursing Program application to the Health Science and Nursing Division for admission consideration, when all the educational requirements are met.
3. The Vocational Nursing Program has once a year entry.
4. The Counseling Department will evaluate academic records and complete an admissions card. Please bring one official copy of your high school transcripts, diploma or GED, and transcripts for college work completed to date to the Health Science and Nursing Division. If you graduated from high school and/or college in another country, please have your transcripts evaluated by a private international evaluation service and bring the documentation, as well as official international transcripts, to the Health Science and Nursing Division. The international evaluation of college 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 is done using a random selection from all qualified applicants. This selection process is in accordance with the State Board of Vocational and Psychiatric Technicians and the California Community College Chancellor's Office. Only applicants meeting the requirements will be placed in the pool for selection. Each class selection will be completed using the above process. Student will be notified by the Health Science and Nursing Division of permission to register in writing.

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

E. STUDENT SUPPORT: SCHOLARSHIPS AND FINANCIAL – 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.

F. PATIENT SAFETY AND BACKGROUND CHECKS – Based on clinical facility policies, nursing students must have clear criminal background checks to participate in clinical courses. Specific procedures will be shared with the student upon admission. The student is responsible for the cost of the background check. If the background check is not clear, the student will be responsible for obtaining documents showing rehabilitation and/or having the record corrected. The



NURSING PROGRAMS OVERVIEW CONTINUED

Dean of Health Science and Nursing is responsible for determining if clinical placement is appropriate through consultation with the Human Resource Department at the clinical sites. Student information will be held in strictest confidence. See the Dean of Health Science and Nursing with questions concerning this procedure.

The student will be required to undergo drug testing at their expense before caring for patients in the clinical setting. Specific procedures will be shared with the student upon admission. Evidence of drug use would jeopardize the admission of the student to the clinical setting.

The Board of Vocational Nursing and Psychiatric Technicians requires the applicant for licensure as a Vocational Nurse to disclose prior misdemeanor and felony convictions. The applicant must explain the circumstances of the conviction and provide documentation of rehabilitation. The Board considers the nature and severity of the offense, subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation in determining eligibility for licensure. Questions concerning this requirement may be directed to the Dean of Health Science and Nursing.

G. REQUIREMENT FOR LICENSURE – The Board of Vocational Nursing and Psychiatric Technicians requires a valid social security number for licensure. The Board of Vocational Nursing and Psychiatric Technicians should be consulted for qualifications for licensure for legal residents without social security cards. The Board of Vocational Nursing and Psychiatric Technicians can be reached at 916-263-7800.

H. TRANSFER STUDENTS – All transfer students who have taken coursework in nursing at another nursing program will be evaluated on an individual basis. Previous nursing coursework must be no older than five years. The student must present a letter from the director of the former nursing program, stating the circumstances necessitating the transfer, and an evaluation of clinical safety. Students who are deemed unsafe in the clinical area are not eligible for transfer to the Rio Hondo Vocational Nursing Program.

Above information subject to change.

Revised August 2016



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	Units
HS 051	*Certified Nurse Assistant Acute Care Training Course 1.5
HS 051L	*Certified Nurse Assistant Acute Care Training Course Lab 1

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	Units
HS 050	Nurse Assistant Pre-Certification Training Course 4
HS 050L	Nurse Assistant Pre-Certification Training Course Lab 2.5

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	Units
HS 052	*Home Health Aide Training Course 1.5
HS 052L	*Home Health Aide Training Course Lab 1

Units Required 2.5

**Prerequisite*



NURSING

DIVISION OF HEALTH SCIENCE & NURSING

ASSOCIATE OF SCIENCE DEGREE

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
*BIOL 125 Human Anatomy.....	4
*BIOL 226 Human Physiology**	4
*BIOL 222 Microbiology**	5
*ENGL 101 College Composition and Research	<u>3.5</u>
	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 BIOL 222 and BIOL 226 and meets the AS degree requirement for a natural science with lab.*

Other Required Courses	Units
MATH 070 or 070D or 073 Intermediate Algebra or appropriate assessment.....	4
READ 023 Reading College Textbooks or appropriate assessment	3
<i>(Reading proficiency required for graduation)</i>	
*SOC 101 or Introduction to Sociology	3
SOC 101H	
*SPCH 101 Public Speaking 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)	<u>2</u>
	27

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

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

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

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	<u>2</u>
	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.....	<u>1.5</u>
	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	<u>2.5</u>
	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.*

NURSING

DIVISION OF HEALTH SCIENCE & NURSING

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

Other Required Courses	Units
MATH 070 or 070D or 073 Intermediate Algebra or appropriate assessment	4
READ 023* Reading College Textbooks or appropriate assessment.....	3
<i>(Reading proficiency required for graduation)</i>	
*SOC 101 or SOC 101H Introduction to Sociology.....	3
*SPCH 101 Public Speaking or equivalent.....	3
SPCH 101H	
*PSY 101 or PSY 101H Introductory Psychology.....	3
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.

(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

*ADN 075	LVN Transition into the Associate Degree Nursing Program	2.5
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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

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

*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.

<i>Prerequisites / Corequisites</i>		<i>Units</i>
*BIOL 226	Human Physiology**	4
*BIOL 222	Microbiology**	5
		9
*ADN 075	LVN Transition into the Associate Degree Nursing Program.....	2.5

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

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

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	<u>2.5</u>
		9

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		Units
*BIOL 125	Human Anatomy.....	4
*BIOL 226	Human Physiology.....	4
*BIOL 222	Microbiology	5
*ENGL 101	College Composition and Research.....	<u>3.5</u>
		16.5
*ADN 151	Clinical Nursing Concepts.....	2
*ADN 151L	Clinical Nursing Concepts Lab.....	2

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

Other Required Courses		Units
MATH 070 or 070D or 073	Intermediate Algebra or appropriate assessment	4
READ 023	Reading College Textbooks or appropriate assessment	3
<i>(Reading proficiency required for graduation)</i>		
*SOC 101 or SOC 101H	Introduction to Sociology.....	3
*SPCH 101 SPCH 101H	Public Speaking or equivalent.....	3
*PSY 101 or PSY 101H	Introductory Psychology.....	3
AMERICAN INSTITUTIONS (One Course).....		3
FINE ARTS (One Course).....		3
HUMANITIES (One Course).....		3
KINESIOLOGY (2 Activity Courses)		<u>2</u>
		27

(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.)

FIRST YEAR-FALL SEMESTER		UNITS
*ADN 150	Medical/Surgical Nursing I.....	4
*ADN 150L	Medical/Surgical Nursing I Lab.....	4
*ADN 154	Pharmacology.....	<u>2</u>
		10
<i>HS 045 Math for Health Professionals (optional elective for 1 unit)</i>		

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	<u>2</u>
		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	waived
*ADN 252L	Psychiatric/Mental Health Nursing Lab.....	<u>waived</u>
		5.5

(waiver with active psych tech license)

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	<u>2.5</u>
		9

Total Units 80

**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.*

NURSING

DIVISION OF HEALTH SCIENCE & NURSING

ASSOCIATE OF SCIENCE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Vocational Nursing Program

The Vocational Nursing Program is offered as an Associate of Science Degree or as a Certificate of Achievement. Students opting for the Associate Degree should have all the General Education requirements completed prior to entering the Vocational Nursing Program.

The Vocational Nursing Program is a two-and-a-half semester program following completion of prerequisite courses. It is designed to prepare students for employment as staff nurses, giving care to patients in a variety of settings, such as extended care facilities, home health care, surgical centers and medical offices. The program is approved by the California 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:		Units
MATH 030 or 030D or 033	*Prealgebra or appropriate assessment	4
ENGL 035	*Intermediate Composition for Developing Writers or appropriate assessment.....	3
READ 023	*Reading College Textbooks or appropriate assessment.....	3
		10

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

Prerequisites		Units
HS 060	*Health Science Core	5
PSY 101 or PSY 101H	Psychology	3
VN 061	*Basic Fundamentals of Nursing	3.5
VN 061L	*Basic Fundamentals of Nursing Lab	5
		16.5

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

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

FALL SEMESTER UNITS

VN 071L	*Introduction to Medical-Surgical Nursing Lab	3.5
VN 072L	*Intermediate Medical-Surgical Nursing Lab	3.5
VN 073	*Basic Pharmacology.....	2
VN 074	*Nursing Care of Patients with Integumentary/Orthopedic Problems and Concepts of Gerontologic Nursing	2.5
VN 075	*Nursing Care of Patients with Endocrine Problems.....	1
VN 076	*Nursing Care of Patients with Renal, Urinary and Gastrointestinal Problems.....	3.5
VN 077	*Nursing Care of Patients with Cardiovascular and Respiratory Problems.....	3
		19

SPRING SEMESTER

VN 081L	*Maternal and Pediatric Nursing Lab	2.5
VN 082L	*Advanced Medical/ Surgical Nursing Lab.....	3.5
VN 083	*Applied Pharmacology	2
VN 084	*Maternal & Pediatric Nursing	4
VN 085	*Leadership & Supervision for the Vocational Nurse.....	.5
VN 086	*Mental Health & Neurological Nursing Problems.....	3
VN 087	*Nursing Care of Patients with Cancer	<u>1</u>
		16.5

Total program units 62

**Prerequisite*

See Nursing Program Overview appendix pages - for Philosophy, Admissions Requirements and Admissions Procedures.

PHILOSOPHY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

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)

Choose one course from the following list:

	Units
PHIL 112 or PHIL 112H	Introduction to Logic3
PHIL 115	*Introduction to Logic Honors3
	Symbolic Logic3

Choose one course from the following list:

PHIL 101 or PHIL 101H	Introduction to Philosophy.....3
PHIL 120	*Introduction to Philosophy Honors.....3
	Introduction to Ethics3

LIST A (3 units)

Choose one course from the following list:

PHIL 124	History of Philosophy: Ancient.....3
PHIL 126	History of Philosophy: Modern.....3

LIST B (6 units)

Choose two courses from the following list or any course not already selected from List A, above.

ECON 102 or ECON 102H	*Principles of Microeconomics or *Principles of Microeconomics Honors3
PHIL 110 or PHIL 110H	*Critical Thinking3
PHIL 140	*Critical Thinking Honors3
	Philosophy of Religion.....3

LIST C (3 units)

Choose one course from the following list or any course not already selected from Lists A or B, above.

PHIL 128/ POL 128 or PHIL 128H/ POL 128H	Introduction to Political Philosophy3
PHIL 135	*Introduction to Political Philosophy Honors.....3
	Philosophy and Contemporary Issues3

Required Subtotal 18

CSU GE or IGETC PatternVaries
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:

Required Courses		Units
ART 105 or ART 105H*	Survey of Western Art: Prehistory through the Middle Ages.....	3
ART 106 or ART 106H	Survey of Western Art: Renaissance to Contemporary	3
ART 120	*Honors	
ART 121	Two Dimensional Design.....	3
ART 130	Three Dimensional Design	3
GDSN 178	Freehand Drawing I	3
PHTO 190	Digital Imaging (<i>Photoshop</i>).....	3
PHTO 191	Beginning Photography.....	3
PHTO 290	*Intermediate Photography.....	3
	*Medium and Large Format Photography	2
PHTO 292	* Digital Photography	3

Units Required 29

*Prerequisite

PHYSICS

DIVISION OF MATHEMATICS & SCIENCES

ASSOCIATE IN SCIENCE IN PHYSICS FOR TRANSFER



Associate Degree
for Transfer

A Degree with a Guarantee.SM

**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		Units
PHY 211	*Physics for Scientists and Engineers – I.....	4
PHY 212	*Physics for Scientists and Engineers – II	4
PHY 213	*Physics for Scientists and Engineers – III.....	4
MATH 190 or MATH 190H	*Calculus I	4
MATH 191	*Calculus I Honors	4
MATH 250	*Calculus II	4
	*Calculus III.....	4
Required Subtotal		24
CSU GE or IGETC Pattern		Varies
Transferable Electives (<i>as needed to reach 60 transferable units</i>)		

Degree Total 60

**Prerequisite*

POLICE ACADEMY

DIVISION OF PUBLIC SAFETY

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.

Required Courses		Units
PAC 040 or	*Basic Police Recruit Class	24
PAC 075 B, C, and D	*Basic Police Recruit Classes (Level III-I)	22

**Prerequisite*

POLITICAL SCIENCE

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN POLITICAL SCIENCE FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

Associate in Arts in Political Science for Transfer

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

POLS 110 or POLS 110H	American Government *American Government Honors	3
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Choose at least nine units from the following list:

POLS 128/ PHIL 128	Introduction to Political Philosophy	3
POLS 130	Comparative Government	3
POLS 140	International Relations	3
MATH 130 or MATH 130H or PSY 190	*Statistics *Statistics Honors	4
	*Statistics for the Behavioral Sciences.....	4

Choose six units from the following list:

ECON 101 or ECON 101H	*Principles of Macroeconomics *Principles of Macroeconomics Honors.....	3
ECON 102 or ECON 102H	*Principles of Microeconomics *Principles of Microeconomics Honors.....	3
ECON 106	Economics of Contemporary Issues.....	3
HIST 143 or HIST 143H	History of the United States to 1877 *History of the United States to 1877 Honors.....	3
HIST 144 or HIST 144H	History of the United States Since 1865 *History of the United States Since 1865 Honors	3
HIST 158	US Comparative History of American Indians and Black Americans.....	3
HIST 159 or HIST 159H	US Comparative History of Mexican and Asian Americans & Women	3
	*US Comparative History of Mexican and Asian Americans & Women Honors.....	3
HIST 170	Women in American History	3
POLS 125	Law and Democracy.....	3
POLS 135/ ECON 135	International Political Economy	3
POLS 150/ CHST 150	Chicano Politics.....	3

Required Subtotal18-19

CSU GE or IGETC PatternVaries
Transferable Electives (as needed to reach 60 transferable units)

Degree Total: 60 units

**Prerequisite*

PSYCHOLOGY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN PSYCHOLOGY FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

Associate in Arts in Psychology for Transfer

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.

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.

Required Courses

	Units
PSY 101 or PSY 101H	Introductory Psychology *Introductory Psychology Honors.....3
PSY 200	*Research Methods in Psychology.....3
PSY 210 or PSY 210H	*Biological Psychology *Biological Psychology Honors3

(choose one statistics course)

MATH 130 or MATH 130H or PSY 190	*Statistics *Statistics Honors.....4 *Statistics for the Behavioral Science.....4
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Choose one course from the following list:

PHIL 110	*Critical Thinking3
PSY 112	Lifespan Development.....3
SOC 101 or SOC 101H	Introduction to Sociology *Introduction to Sociology Honors.....3

Choose one course from the following list:

PHIL 101 or PHIL 101H	Introduction to Philosophy *Introduction to Philosophy Honors.....3
PSY 114	Abnormal Psychology.....3
PSY 170	Introduction to Learning and Memory3
PSY 180	Positive Psychology.....3
SOC 102	Social Problems.....3

Required Subtotal19

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

Degree Total 60

**Prerequisite*

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. This program is endorsed by the Western Association of Food Chains (WAFC).

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

Required Courses		Units
MGMT 120	Human Relations in Business	3
MGMT 146	Human Resources Management.....	3
MGMT 150	Principles of Management.....	3
MRKT 170	Elements of Marketing	3
MRKT 175	Retail Management	3

Choose one course:

ACCT 100	Introduction to Accounting	3
ACCT 101	Financial Accounting.....	4

Choose one course:

CIT 102	Introduction to Microsoft Office	3
MGMT125	Managerial Computer Skills.....	3

Choose one course:

MGMT 108	Business Writing	3
MGMT 208	*Business Communications	3

Units Required 24-25

**Prerequisite*

SMALL BUSINESS MANAGEMENT

DIVISION OF BUSINESS

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 different types of small businesses: service businesses, international businesses, e-commerce businesses and business-to-business ventures through hands-on projects.

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

Required Courses	Units
ACCT 101 Financial Accounting.....	4
BUSL 110 Legal Environment of Business	3
CIT 101 or Introduction to Computer Information Technology.....	3
MGMT 125 Managerial Computer Applications.....	3
MGMT 101 Introduction to Business	3
MGMT 108 or Business Writing.....	3
MGMT 208 Business Communications.....	3
MGMT 130 Small Business Management-Entrepreneurship.....	3
MRKT 170 Elements of Marketing	3

Students select two classes from the following list:

CIT 155 Introduction to E-commerce.....	3
MRKT 172 Advertising and Promotion	3
MRKT 174 Small Business Marketing and Advertising	3
MRKT 175 Retail Management	3
LOG 101 Supply Chain Management.....	3
MGMT 120 Human Relations in Business	3
MGMT 150 Principles of Management.....	3
MGMT 140 Introduction to International Business.....	3

Units Required 28

CERTIFICATE OF ACHIEVEMENT

Small Business Management

This Certificate of Achievement is designed for the student wishing to own their own business. Areas of emphasis will include management, marketing, and operations management for a small business. The student will gain a general core of knowledge about different types of small businesses: service businesses, international businesses, e-commerce businesses and business-to-business ventures through hands-on projects.

To acquire the **Certificate of Achievement in Small Business Management**, it is necessary to complete the following courses:

Required Courses	Units
ACCT 101 Financial Accounting.....	4
BUSL 110 Legal Environment of Business	3
CIT 101 or Introduction to Computer Information Technology.....	3
MGMT 125 Managerial Computer Applications.....	3
MGMT 101 Introduction to Business	3
MGMT 108 or Business Writing.....	3
MGMT 208 Business Communications.....	3
MGMT 130 Small Business Management-Entrepreneurship.....	3
MRKT 170 Elements of Marketing	3

Students select two classes from the following list:

CIT 155 Introduction to E-commerce.....	3
MRKT 172 Advertising and Promotion	3
MRKT 174 Small Business Marketing and Advertising	3
MRKT 175 Retail Management	3
LOG 101 Supply Chain Management.....	3
MGMT 120 Human Relations in Business	3
MGMT 150 Principles of Management.....	3
MGMT 140 Introduction to International Business.....	3

Units Required 28

SOCIAL JUSTICE STUDIES

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN SOCIAL JUSTICE STUDIES FOR TRANSFER



Associate Degree
for Transfer
A Degree with a Guarantee.™

Associate in Arts in Social Justice Studies for Transfer

The Associate in Arts in Social Justice Studies for Transfer (AA-T) Degree is intended to meet the lower division requirements for Various Social Science majors (or similar majors) at a CSU campus that offers a Social Justice baccalaureate degree. The Social Justice Studies degree is an interdisciplinary degree that engages students in examining identity issues such as gender, race, class, ethnicity, and nationality as they intersect with the social justice issues of racism, sexism, classism, terrorism and other oppressive structures within society. This degree is designed to appeal to the student who is interested in learning about the experiences of marginalized groups and those going into majors such as: Sociology, History, Political Science, Women's Studies, Race and Ethnic Studies.

****Students are advised to check with the Counseling Department for the courses accepted into the various majors that fall under the umbrella of "Social Justice" at four-year institutions where they seek transfer.**

Required Courses	Units
SOC 102	Major Social Problems..... 3
SOC 116	Introduction to Race and Ethnic Relations..... 3
SOC 120	Perspectives of Sex & Gender..... 3

Choose 3 units from the following list:

HIST 122	History of Mexico..... 3
HIST 158	US Comparative History of American Indians and Black Americans..... 3
HIST 170	Women in American History..... 3

Choose 3 units from the following list:

CHST 146	The Mexican American in the History of the United States..... 3
LIT 117 or LIT 117H	Mexican Literature in Translation 3 *Mexican Literature in Translation Honors 3
LIT 130 or LIT 130H	*Women and Literature..... 3
LIT 149	*Women and Literature Honors 3 Introduction to Chicana/ Chicano Literature 3

Choose 3 units from the following list:

CHST 101	Introduction to Chicano Studies 3
CHST 148	La Chicana: The Contemporary Mexican-American Female..... 3
HIST 156	Black American Experience to 1865.. 3
HIST 157	Black American Experience since 1865..... 3
HIST 159 or HIST 159H	US Comparative History of Mexican and Asian Americans and Women..... 3 *US Comparative History of Mexican and Asian Americans and Women, Honors..... 3
HUM 130	Contemporary Mexican-American Culture..... 3
POLS/CHST 150	Chicano Politics 3
SOC 105	Introduction to Human Sexuality..... 3
SOC/ANTH 110	Human Sexuality from a Cross-Cultural Perspective 3

Required Subtotal 18

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

Degree Total 60

*Prerequisite

SOCIAL WORK

DIVISION OF BEHAVIORAL & SOCIAL SCIENCE

ASSOCIATE OF ARTS DEGREE

The Associate of Arts degree in Social Work provides a foundation for students interested in the fields of social work, human services, counseling and related areas. The curriculum is designed to meet lower-division transfer courses for many CSU's with majors in Social Work, Sociology with an emphasis in Social Work or Human Services. The degree also offers a basis for students interested in paraprofessional jobs in the human services field. See admission requirements of individual colleges and universities and transfer requirements for specific majors.

To acquire the **Associate of Arts degree in Social Work** it is necessary to complete the CSU breadth pattern or the IGETC pattern along with the following course:

Required Courses	Units
HUSR 111	Human Services in Contemporary Society..... 3
HUSR 199	Fieldwork in Human Services..... 3
MATH 130* or MATH 130H or PSY 190	*Statistics or Statistics Honors..... 4 *Statistics for the Behavioral Sciences 4
PSY 101 or PSY 101H	Introduction to Psychology..... 3 *Introduction to Psychology Honors..... 3
SOC 101 or SOC 101H	Introduction to Sociology 3 *Introduction to Sociology Honors 3
<i>Choose ONE course from the following list:</i>	
AJ 101	Introduction to Administration of Justice 3
ANTH 102 or ANTH 102H	Introduction to Cultural Anthropology *Introduction to Cultural Anthropology .. Honors 3
CD 106	Child Growth and Development..... 3
CD 208	Child, Family and Community..... 3
ENGL 201 or ENGL 201H	*Advanced Composition and Critical Thinking 3.5 *Advanced Composition and Critical Thinking Honors..... 3.5
HIST 143 or HIST 143H	History of the United States to 1877 3 *History of the United States to 1877 Honors..... 3
HIST 144 or HIST 144H	History of the United States Since 1865 3 *History of the United States Since 1865 Honors 3
PSY 112	Lifespan Development..... 3
PSY 114	Introduction to Abnormal Psychology 3
SOC 102	Social Problems 3

Units Required 19-19.5

SOCIOLOGY

DIVISION OF BEHAVIORAL & SOCIAL SCIENCES

ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER



Associate Degree for Transfer

A Degree with a Guarantee.™

Associate in Arts in Sociology for Transfer

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.

Required Courses

SOC 101 or SOC 101H	Introduction to Sociology *Introduction to Sociology Honors	3
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Any TWO courses from the following list:

SOC 102	Major Social Problems	3
PSY 200	*Research Methods in Psychology.....	3
MATH 130 or MATH 130H or PSY 190	*Statistics *Statistics Honors.....	4
	*Statistics for the Behavioral Sciences	4

Any TWO courses from the following list or not used above:

SOC 114	Marriage, Family and Intimate Relationships.....	3
SOC 116	Introduction to Race and Ethnic Relations	3
SOC 120	Perspectives of Sex and Gender.....	3
SOC 127	Introduction to Criminology.....	3

Any ONE course from the following list:

SOC 105 SOC 110/ ANTH 110	Introduction to Human Sexuality..... Human Sexuality from a Cross-Cultural Perspective.....	3 3
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Required Subtotal 18-20

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

Degree Total 60

**Prerequisite*

SPANISH

DIVISION OF COMMUNICATIONS & LANGUAGES

ASSOCIATE IN ARTS IN SPANISH FOR TRANSFER



**Associate Degree
for Transfer**
A Degree with a Guarantee.™

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.

Required Courses		Units
SPAN 101	Spanish I	4
SPAN 102	*Spanish II	4
SPAN 201 or SPAN 201H	*Spanish III	4
SPAN 202	*Spanish IV	4

Choose at least one course (3-4 units) from the following list:

FR 101	French I	4
FR 102	*French II	4
FR 201	*French III	4
FR 202	*French IV	4
HIST 122	History of Mexico	3
HUM 125 or HUM 125H	*Introduction to Mexican Culture/ Honors	3
HUM 130	Contemporary Mexican-American Culture	3
LIT 117 or LIT 117H	*Mexican Literature in Translation/ Honors	3
LIT 149	Introduction to Chicano/Chicana Literature	3

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):

ART 104	Art of the Ancient Americas	3
ART 108	The Art of Mexico	3
ENGL 126	Languages of the World	3
MUS 129	Music in Latin American Culture	3
SPAN 130	Spanish for Heritage Speakers I	3
SPAN 131	*Spanish for Heritage Speakers II	3

Required Subtotal 19-20

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

Degree Total 60

**Prerequisite*

THEATRE ARTS

DIVISION OF ARTS & CULTURAL PROGRAMS

ASSOCIATE IN ARTS IN THEATRE ARTS FOR TRANSFER



Associate Degree for Transfer

A Degree with a Guarantee.™

Associate in Arts in Theatre Arts

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	Units
THTR 101 or THTR 105 or THTR 105H	Theatre Arts Appreciation..... 3
THTR 110	The History & Development of the Theatre (or *Honors)..... 3
THTR 159 or	Principles of Acting 3
THTR 170	Stage Crew Activity (must be taken for 3 units)..... 3
	Theatre Rehearsal and Performance 3

Choose 3 classes totaling 9 units from the following list:

THTR 111	*Principles of Acting..... 3
THTR 150	Theatre Crafts I..... 3
THTR 153	Stage Lighting 3
THTR 174	Introduction to Stage Costume..... 3

If not used in Required Core:

THTR 159 or	Stage Crew Activity (must be taken for 3 units)..... 3
THTR 170	Rehearsal and Performance..... 3

Required Subtotal 18

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

Degree Total 60

**Prerequisite*

THEATRE ARTS

DIVISION OF ARTS & CULTURAL PROGRAMS

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:

Required Courses		Units
THTR 101	Theatre Arts Appreciation.....	3
THTR 105 or THTR 105H	History & Development of the Theatre (or *Honors).....	3
THTR 110	Principles of Acting.....	3
THTR 111	*Principles of Acting.....	3
THTR 150	Theatre Crafts I.....	3
THTR 151	*Theatre Crafts II.....	3
THTR 170	Theatre Rehearsal & Performance.....	3
THTR 230	*Principles of Directing I.....	3
THTR 231	*Principles of Directing II.....	3

Units Required 27

**Prerequisite*

WELDING TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

ASSOCIATE OF SCIENCE DEGREE

The courses required in this degree 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 Certified Welder Exam, which also aligns with American Welding Society (AWS) standards.

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:

Required Courses	Units
TCED 060 Elementary Metallurgy	2
WELD 040 Introduction to Welding Processes	2
WELD 045 Introduction to Electric Welding	2
WELD 050 *Semi-Automatic Welding Processes	4
WELD 055 *Manual Electric Arc Welding Processes	4
WELD 060 Production Welding Techniques	4
WELD 065 *Inert Gas Welding	4
WELD 070 *Advanced Inert Gas Welding	4

Select one course from the following:

TCED 090	Blueprint Reading for Industry	2
WELD 075	*Certification Welding I	4

Units Required 28 - 30

* Prerequisite

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:

Required Courses	Units
WELD 040 Introduction to Welding Processes	2
WELD 050 *Semi-Automatic Welding Processes	4
WELD 055 *Manual Electric Arc Welding Processes	4
WELD 075 *Certification Welding I	4
WELD 080 *Certification Welding II	3

Units Required 17

*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:

Required Courses	Units
WFT 101 Wildland Fire Behavior	3
WFT 102 Wildland Fire Fighter Safety and Survival.....	3
WFT 103 Wildland Fire Operations (Ground, Air).....	3
WFT 104 Wildland Fire Public Information Officer, Prevention, and Investigation	3
WFT 105 Wildland Fire Logistics, Finance, and Planning.....	3

Plus a minimum of 9 units selected from the following:

EMT 093	*Emergency Medical Technician.....	8
FTEC 044	*Physical Fitness and Ability for the Fire Fighter	3
FTEC 107	Hazardous Materials I.....	3
FTEC 108	*Hazardous Materials II	3
FTEC 121	Emergency Response	3
WFT 077	*Wildland Fire Academy	16

Units Required 24-31

**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:

Required Courses	Units
WFT 101 Wildland Fire Behavior	3
WFT 102 Wildland Fire Fighter Safety and Survival	3
WFT 103 Wildland Fire Operations (Ground, Air)	3
WFT 104 Wildland Fire Public Information	3
WFT 105 Wildland Fire Logistics, Finance, and Planning	3

Plus a minimum of 9 units selected from the following:

EMT 093	*Emergency Medical Technician	8
FTEC 044	*Physical Fitness and Ability for the Fire Fighter	3
FTEC 107	Hazardous Materials I	3
FTEC 108	*Hazardous Materials II	3
FTEC 121	Emergency Response	3
WFT 077	*Wildland Fire Academy	16

Units Required 24-31

**Prerequisite*

B.I.M. AND CADD TECHNOLOGY FOR ARCHITECTURE

DIVISION OF CAREER & TECHNICAL EDUCATION

NONCREDIT CERTIFICATE OF COMPLETION

The B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design) Technology for Architecture Noncredit Certificate of Completion is intended for individuals who are interested in pursuing training in the use of CADD Technology within the Architectural design and drafting fields.

To acquire the **Noncredit Certificate of Completion in B.I.M. (Building Information Modeling) and CADD (Computer Assisted Drafting & Design) Technology for Architecture**, it is necessary to complete the following courses:

Required Courses		Units
NVOC 150	AutoCAD for Basic CADD Applications	0
NVOC 170	MicroStation for Basic CADD Applications	0
NVOC 260	Advanced Architecture Using Revit and 3D Software	0
NVOC 261	Revit for Advanced BIM Architectural, Structural and MEP Applications	0
NVOC 280	Advanced MicroStation for CADD & BIM Applications	0

Units Required 0

CIVIL DRAWING AND PRESSURE PIPING

DIVISION OF CAREER & TECHNICAL EDUCATION

NONCREDIT CERTIFICATE OF COMPLETION

The Civil Drawing and Pressure Piping Noncredit Certificate of Completion is intended to improve employability or job placement opportunities in the field of civil engineering and design technology with specialization in Pressure Piping. Completion of the sequence of courses will prepare students for employment, provide for retraining/upgrading and prepare students for enrollment in advanced training programs in Civil Design technology.

To acquire the **Noncredit Certificate of Completion in Civil Drawing and Pressure Piping**, it is necessary to complete the following courses:

Required Courses		Units
NVOC 140	Civil Drafting Fundamentals	0
NVOC 170	MicroStation for Basic CADD Applications	0
NVOC 265	Pressure Piping Design	0
NVOC 266	Pressure Piping Applications	0

Units Required 0

PARAMETRIC MODELING AND CADD TECHNOLOGY FOR MECHANICAL DESIGN

DIVISION OF CAREER & TECHNICAL EDUCATION

NONCREDIT CERTIFICATE OF COMPLETION

The Parametric Modeling and CADD (Computer Assisted Drafting & Design) Technology for Mechanical Design Noncredit Certificate of Completion is intended for individuals who are interested in pursuing training in the use of CADD Technology within the Mechanical design and drafting fields.

To acquire the **Noncredit Certificate of Completion in Parametric Modeling and CADD (Computer Assisted Drafting & Design) Technology for Mechanical Design**, it is necessary to complete the following courses:

Required Courses

	Units
NVOC 150 AutoCAD for Basic CADD Applications	0
NVOC 200 Intermediate AutoCAD for Design & Production	0
NVOC 250 Parametric Modeling 3D Applications	0
NVOC 270 SolidWorks for 3D Modeling and Prototype Applications	0

Units Required 0

BACHELOR OF SCIENCE DEGREE AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

Admission requirements:

Upper Division Standing

Students interested in pursuing the Bachelor of Science in Automotive Technology must meet the following requirements to be considered to have upper division standing:

- Major courses: 35 units of transportation related courses from a designated associate degree course sequence per California Community College Chancellor's Office Taxonomy of Programs (TOP) codes 0948.00. Each course must be completed with a C or higher.
- A minimum of 30 units (45 quarter units) in general education from either the CSU GE or IGETC patterns with a 2.0 cumulative GPA. The 30 units must include the following courses, completed with a C or higher:
 - o Written Communication
 - o Oral Communication
 - o Critical Thinking
 - o Mathematics

Students must complete the CSU GE or IGETC pattern prior to earning the bachelor's degree.

Steps for applying for upper division standing:

- Apply to Rio Hondo College
- Submit a completed supplemental application
- Submit all official transcripts to Admissions and Records (must be delivered from sending institution)

Program Learning Outcomes

Graduates will be technically competent and possess strong interpersonal skills. They will have the ability to communicate effectively, be able to solve problems, work in teams, and will have developed an understanding of the need for continued professional development. The Program Learning Outcomes are grouped into five broad interrelated categories:

1. Specialized Knowledge
 - a. This category addresses what students should demonstrate with respect to the Automotive Technology Industry beyond the vocabularies, theories, and skills of the particular fields of study.
2. Broad and Integrative Knowledge
 - a. This category asks students to consolidate learning from different broad fields of study (e.g., Humanities, Arts, Applied Sciences, and Social Sciences) and to discover and explore concepts and questions that bridge these essential areas of learning.
3. Intellectual Skills
 - a. This category includes both traditional and nontraditional cognitive skills, which include analytic inquiry, use of information resources, engagement with diverse perspectives, ethical reasoning, and quantitative and communicative fluency. All of these emphasize the importance of students making, confronting, and inter-

preting ideas and arguments from different points of reference (e.g., cultural, technological, and political).

4. Applied and Collaborative Learning
 - a. This category emphasizes what students can do with what they know. Students will be asked to demonstrate their learning by addressing unscripted problems in scholarly inquiry, both at work and in other settings outside the classroom. It also includes research and creative activities involving both individual and group efforts, and may also include practical skills crucial to the application of expertise.
5. Civics and Global Learning
 - a. This category recognizes higher education's responsibilities both to democracy and global community. Students will demonstrate integration of their skills and knowledge by engaging with and responding to civic, social, environmental, and economic challenges at local, state, national, and international levels.

Specific Program Learning Outcome Proficiencies

The following is an overview of the five categories of learning listed above at each level of the Automotive Technology Degree Courses (Lower Division and Upper Division), and defines the basic proficiencies to each area of learning, as well as describing their relationship to one another.

- Specialized Knowledge
 - o Lower Division Courses: Automotive Service Technician Major
 - Students shall describe the scope of the field of study, its core theories and practices, using field-related terminology, and offer a similar description of the field of study per Industry Standards.
 - Students shall apply tools, technologies, and methods to selected questions or problems of the field of study per Industry Standards.
 - Students shall generate substantially error-free products, reconstructions, data, juried exhibits, or performances appropriate to the field of study per Industry Standards.
 - o Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall define and explain the structure, styles, and practices of the field of study using its tools, technologies, methods, and specialized terms per Industry Standards.
 - Students shall investigate a familiar but complex problem in the field of study by assembling, arranging, and reformulating ideas, concepts, designs, and techniques per Industry Standards
 - Students shall frame, clarify, and evaluate complex challenges that bridges the field of study and at least one other related field, using theories, tools, methods, and academics from those fields to produce independently or collaboratively an investigative, creative, or practical work illuminating said challenge per Industry Standards.

- Students shall construct a summative project, paper, performance, or application that draws on current research, academics, and techniques in the field of study per Industry Standards.
- Broad and Integrative Knowledge
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall describe how existing knowledge or practice is advanced, tested, and revised in each core field studied, such as disciplinary and interdisciplinary courses in technology, applied sciences, social sciences, and humanities per Industry Standards.
 - Students shall describe a key debate or problem relevant to each core field studied, explain the significance of the debate or problem to the wider society, and show how concepts from the core fields can be used to address the selected debates or problems per Industry Standards.
 - Students shall use recognized methods of each core field studied, including the gathering and evaluation of evidence, in the execution of analytical, practical, or creative tasks per Industry Standards.
 - Students shall describe and evaluate the ways in which at least two fields of study define, address, and interpret the importance for society of a problem in applied science, social science, humanities, or technology per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall describe and evaluate the ways in which at least two fields of study define, address, and interpret the importance for society of a problem in applied science, social science, humanities, or technology, and explain how the methods of inquiry in these fields can address the challenge and proposes an approach to the problem that draws on these fields per Industry Standards.
 - Students shall produce an investigative, creative, or practical work that draws on specific theories, tools, and methods from at least two core fields of study per Industry Standards.
 - Students shall define and frame a problem important to the major field of study, justify the significance of the challenge or problem in a wider societal context, explain how methods from the primary field of study can be used to address the problem, and develop an approach that draws on both the major and core fields per Industry Standards.
- Intellectual Skills
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall identify and frame a problem or question in selected areas of study and distinguish among elements of ideas, concepts, theories, or practical approaches to the problem or question per Industry Standards.
 - Students shall identify, categorize, evaluate, and cite multiple information resources so as to create projects, papers, or performances in either a specialized field of study or with respect to a general theme within applied science, social science, humanities, or technology per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall describe how knowledge from different cultural perspectives might affect interpretations of prominent problems in politics, society, and global relations per Industry Standards.
 - Students shall describe, explain, and evaluate the sources of his/her own perspective on selected issues in culture, society, politics, or global relations, and compare that perspective with other views per Industry Standards.
 - Students shall describe the ethical issues present in prominent problems in politics, economics, health care, technology, or frameworks that help to inform decision-making with respect to such issues per Industry Standards.
 - Students shall present accurate interpretations of quantitative information on political, economic, health-related, or technological topics and explain how both calculations and symbolic operations are used in those offerings per Industry Standards.
 - Students shall create and explain graphs or other visual depictions of trends, relationships, or changes in status per Industry Standards.
 - Students shall develop and present valid, coherent, and substantially error-free writing for communication to general and specialized audiences per Industry Standards.
 - Students shall demonstrate effective interactive communication through discussion by actively listening, constructively responding, and through structured oral presentations to general and specialized audiences per Industry Standards.
 - Students shall negotiate with peers to develop an action plan for a practical task, and communicate the results of the negotiation either orally or in writing per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall differentiate and evaluate theories and approaches to selected complex problems within the chosen field of study and at least one other field per Industry Standards.
 - Students shall locate, evaluate, incorporate, and properly cite multiple information resources in different media or different languages in projects, papers, or performances per Industry Standards.
 - Students shall generate information through independent or collaborative inquiry and uses that information in a project, paper, or performance per Industry Standards.
 - Students shall construct a written project, laboratory report, exhibit, performance, or community service design expressing an alternate cultural, political, or technological vision, and explain how this vision differs from current realities.
 - Students shall frame a controversy or problem within a field of study in terms of at least two political, cultural, historical, or technological forces, explore and evaluate competing perspectives on the controversy or problem, and presents a reasoned analysis of the issue, either orally or in writing, that demonstrates consideration of the competing views per Industry Standards.

- Students shall analyze competing claims from a recent discovery, scientific contention, or technical practice with respect to benefits and harms to those affected, articulate the ethical dilemmas inherent in the tension of benefits and harms, and either arrive at a clearly expressed reconciliation of that tension that is informed by ethical principles, or explain why such a reconciliation cannot be accomplished per Industry Standards.
- Students shall identify and elaborate key ethical issues present in at least one prominent social or cultural problem, articulate the ways in which at least two differing ethical perspectives influence decision making concerning those problems, and develop and defend an approach to productively address the ethical issue per Industry Standards.
- Students shall translate verbal problems into mathematical algorithms so as to construct valid arguments using accepted symbolic systems of mathematical reasoning, and presents the resulting calculations, estimates, risk analyses, or quantitative evaluations of public information in papers, projects, or multimedia presentations per Industry Standards.
- Students shall construct mathematical expressions where appropriate for issues initially described in non-quantitate terms per Industry Standards.
- Students shall construct sustained, coherent arguments, narratives, or detailed explanations of issues, problems, or technical issues and processes in writing and at least in one other medium to general and specific audiences per Industry Standards.
- Students shall conduct an inquiry concerning information, conditions, technologies, or practices in the field of study that makes substantive use of non-English-language sources per Industry Standards.
- Students shall negotiate with one or more collaborators to advance an oral argument or articulate an approach to resolving a social, personal, or ethical dilemma per Industry Standards.
- Applied and Collaborative Learning
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall describe in writing at least one case in which knowledge and skills acquired in academic settings may be applied to a field-based challenge, and evaluate the learning gained from the application per Industry Standards.
 - Students shall analyze at least one significant concept or method in the field of study in light of learning outside the classroom per Industry Standards
 - Students shall locate, gather, and organize evidence regarding a question in a field-based venue beyond formal academic study and offer alternate approaches to answering the question per Industry Standards.
 - Students shall demonstrate the exercise of any practical skills crucial to the application of expertise per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall prepare and present a project, paper, exhibit, performance, or other appropriate demonstration linking knowledge or skills acquired in work, community, or research activities with knowledge acquired in one or more fields of study, explain how those elements are structured, and employ appropriate citations to demonstrate the relationship of the product to literature of the field per Industry Standards.
 - Students shall negotiate a strategy for group research or performance, document the strategy so that others may understand it, implement the strategy, and communicate the results per Industry Standards.
 - Student shall write a design, review, or illustrative application for an analysis or case study in an applied scientific, social scientific, technical, or business context per Industry Standards.
 - Student shall complete a substantial project that evaluates a significant question in the field of study, including an analytic narrative of the effects of learning outside the classroom on the research or practical skills employed in executing the project per Industry Standards.
- Civics and Global Learning
 - Lower Division Courses: Automotive Service Technician Major
 - Students shall describe his/her own civic and cultural background, including its origins and development, assumptions, and predispositions per Industry Standards.
 - Students shall describe diverse positions, historical, and contemporary, on selected democratic values or practices, and present his/her own position on a specific problem where one or more of these values or practices are involved per Industry Standards.
 - Students shall provide evidence of participation in a community project through either a spoken or written narrative that identifies the civic issues encountered, and personal insights gained from this experience per Industry Standards.
 - Students shall identify an economic, environmental, or public health challenge spanning countries, continents, or cultures, present evidence for the challenge, and take a position on it per Industry Standards.
 - Upper Division Courses: Automotive Technical Studies or Business Marketing Pathway
 - Students shall explain diverse positions, including those representing different cultural, economic, and geographic interests, on a contested public issue, and evaluate the issue in light of both of those interests and evidence drawn from journalistic and academic publications per Industry Standards.
 - Students shall develop and justify a position on a public issue and relate this position to alternate views held by the public or within the policy environment per Industry Standards.
 - Students shall collaborate with others in developing and implementing an approach to a civic issue, evaluate the strengths and

weaknesses of the processes, and describe the results per Industry Standards.

- Students shall identify a significant issue affecting countries, continents, or cultures, present quantitative evidence of that challenge through tables and graphs, and evaluate the activities of either non-governmental organizations or cooperative inter-governmental initiatives in addressing identified issue(s) per Industry Standards.

BACHELOR OF SCIENCE DEGREE AUTOMOTIVE TECHNOLOGY

DIVISION OF CAREER & TECHNICAL EDUCATION

The Bachelor of Science (B.S.) degree in Automotive Technology is designed to prepare an individual for a wide variety of technology-based careers in a pathway emphasizing the Automotive Industry.

Graduates with the Bachelor of Science degree in Automotive Technology will find employment in administrative and supervisory positions in automotive industry-related organizations and assume responsibilities in areas of product development, post-production support, customer sales and service support, distribution, and training. Graduates will have the practical skills, technical knowledge, and organizational competencies required of mid-level management personnel.

The courses will enhance the student's level of technical competency, computer, math, and science skills, effective communication and interpersonal skills, substantiate workplace and social ethics, the ability to work in teams, and to continue to pursue professional development and lifelong learning.

Required Courses - Both Pathways		Units
AUTO 300	*Assessment of the Automotive Industry	3
AUTO 310	*The Global Development and Advancement of the Automobile	3
AUTO 320	*The Progressive Growth of Automotive Technology	3

Technical Pathway

Required Courses	Units
AUTO 340 *Analyzing Vehicle Electrical/Electronic Systems	3
AUTO 360 *Analyzing Vehicle Fuels, Lubricants, and Combustion	3
AUTO 400 *Analyzing Vehicle Stability, Dynamics, and NVH	3
AUTO 420 *Analyzing Dynamic Functions of Vehicle Drivetrain Systems.....	3
AUTO 440 *Analyzing Vehicle Safety, Comfort, and Security Systems	3
AUTO 499 *Directed Study in Automotive Technology	4

Total Units Required 28

**Prerequisite*

Business & Marketing Pathway

Required Courses	Units
AUTO 350 *Principles of Automotive Service Management.....	3
AUTO 370 *Standard Accounting Systems of the Automotive Industry	3
AUTO 410 *Digital Marketing for the Automotive Industry	3
AUTO 430 *Finance & Insurance Regulations for the Automotive Industry.....	3
AUTO 450 *Variable & Fixed Operations of the Automotive Industry	3
AUTO 499 *Directed Study in Automotive Technology.....	4

Total Units Required 28

**Prerequisite*

REQUIRED COURSES - BOTH PATHWAYS

AUTO 300

Assessment of the Automotive Industry

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor
Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160 (all with a grade of "C" or better)

This course provides the Automotive Technology student with a detailed practical study of how to be successful in the Automotive Service, Parts, and Sales Industry. This is a practical study of current service, parts, and sales practices performed in dealerships and independent repair shops, while also discussing the review and preparation of the theory and skills necessary to successfully pass the Automotive Service Excellence (ASE) Exams relevant to Industry Standards. Topics include becoming efficient in the shop, mastering the various pay systems, understanding managers and owners, building customer loyalty, demonstrating workplace and social ethics, and making Customer Satisfaction Index (CSI) values work for all employees. In addition, vehicle engines, transmissions, brakes, suspension, air conditioning, and engine performance systems, parts, and components, and new and emerging technologies that support the service and repair of the modern automobile will be discussed. Emphasis will be placed upon the important tasks of proper repair procedures, the safe use of tools, equipment, technical data, and scan tools, as well as the ins-and-outs of the business of service, parts, and sales. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 310

The Global Development and Advancement of the Automobile

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor
Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160 (all with a grade of "C" or better)

This course provides the Automotive Technology student with a detailed practical study of the development of the Automobile from its beginnings to the present day. This is a practical study of the invention of the first suitable power source to be adopted to self-propel a road vehicle and how it resulted in a major paradigm shift to revolutionize transportation and the ability of individual mobility. Topics include the development of animal-drawn transportation devices and the quest for a prime mover, the pioneering era of the automobile and how it lead to it being an industrial product, mass-production of the automobile and how it became a consumer product, and new and emerging technologies that support the automobile and motorized traffic and transportation systems. Emphasis will be placed upon the global perspective, particularly the developments that occurred in the United States, Europe, and Asia, and the numerous technological and business revolutions of the first and second half of the 20th century. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle-After Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 320

The Progressive Growth of Automotive Technology

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor
Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160 (all with a grade of "C" or better)

This course provides the Automotive Technology student with a detailed practical study of the development of Automotive Technology from its beginnings to the present day, focusing on the basics and its long-term development. This is a practical and contextualized study of the importance of the automotive technological changes that have evolved from both engineering improvements and cultural changes. Topics include the development of vehicle layout and design, the needs and behaviors of drivers, producers, non-users, and other stakeholders, and the ever-changing computerized control of its systems and other emerging technologies. Emphasis will be placed upon the systematic overview of the mechanization and electrification of the automobile, not only as machines, but as a testimony of their important role in the way we live today. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

CHOOSE ONE PATHWAY

Technical Pathway

AUTO 340

Analyzing Vehicle Electrical/Electronic Systems

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)
Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Electrical and Electronic Systems of the Modern Automobile. This is a practical study of computerized vehicle controls and diagnostic strategies as it pertains to the function, operation, and vehicle on-board diagnostic and communication systems of the engine, powertrain, brakes, suspension, safety, convenience, and emission control systems. Topics include emerging technologies, such as modern instrumentation, navigation, and telematics, and the use of vehicle network configuration systems used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including programmed microprocessors, microcontrollers, and computer-language protocol. Current Industry-approved diagnostic, troubleshooting, and reprogramming techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 360**Analyzing Vehicle Fuels, Lubricants and Combustion**

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Fuels, Lubricants, and Combustion of the Modern Automobile. This is a realistic study of the physical and chemical properties of fuels, lubricants, and combustion, including diagnostic strategies as it pertains to the function, operation, and every-day use of the systems and sub-systems of the automotive internal combustion engine and related powertrain components. Topics include emerging technologies, such as modern fuel and lubricant requirements and how they affect combustion, emissions, and maintenance schedules used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including failure analysis. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 400**Analyzing Stability, Dynamics, and NVH**

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Stability, Dynamics, and Noise-Vibration-Harshness (NVH) of the Modern Automobile. This is a practical study of the systems that provide vehicle operation safety, including diagnostic strategies as it pertains to the function, operation, and every-day use of the automotive tires, brakes, steering, and suspension systems. Topics include emerging technologies, such as modern antilock brakes, traction control, electronic stability assist, electronic power steering, active suspension, and tire construction and pressure monitoring systems used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing NVH. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 420**Analyzing Dynamic Functions of Vehicle Drivetrain Systems**

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325 This course provides the Automotive Technology student with a detailed practical application of Electro-Mechanical and Hydraulic Functions of Transmission and Drivetrain Systems of the Modern Automobile.

This is a practical study of the systems that provide vehicle mobility, including diagnostic strategies as it pertains to the function, operation, and every-day use of the automotive transmission, differential, and drive axle systems. Topics include emerging technologies, such as modern dual-clutch transmissions, continuously-variable transmissions, real-time gear shifting mechanisms and controls, torque convertor and convertor clutch designs, torque-management strategies, and innovative designs of gears, bearings, seals, and friction materials used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing Noise-Vibration-Harshness (NVH). Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 440**Analyzing Vehicle Safety, Comfort, and Security Systems**

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Vehicle Occupant Protection, Comfort, and Security Systems of the Modern Automobile. This is a practical study of the systems that provide integrated vehicle and driving protection against hazardous and inadvertent situations, as well as occupant amenities, including diagnostic strategies as it pertains to the function, operation, and every-day use of active/passive safety, comfort, and convenience systems. Topics include emerging technologies, such as modern airbag systems, accident avoidance and pre-crash/post-crash mitigation of injuries, vehicle-to-vehicle (V2V) infrastructure technology, and innovative driver assistance, infotainment, and occupant contentment and security systems used by late-model automotive manufacturers.

Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing vehicle crashes and improving occupant/pedestrian protection. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 499

Directed Study in Automotive Technology

Prerequisite: Enrollment requires an AS Degree in Automotive Technology or similar field, and special approval from the program advisor; AUTO 440; AUTO 450

Advisory: ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, or MATH 160, PHY 120 (all with a grade of "C" or better)

The course provides an opportunity for the Automotive Technology student to expand their studies in the Bachelor of Science Degree beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contact the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students are required to take 4 units of Directed Study within a discipline to graduate with a Bachelor of Science degree in Automotive Technology.

4 Units

72 Lecture hours

Business & Marketing Pathway

AUTO 350

Principles of Automotive Service Management

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, MGMT 146 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical study of the management of an automotive and/or transportation-related business. This is a practical and contextualized study of the importance of business practices of the automotive industry that have evolved from dealerships, franchises, and independently-owned service operations. Topics include an understanding of automotive business regulations in the areas of competition, labor laws, securities regulation, consumer protection, and environmental laws. Emphasis will be placed upon an overview of basic business structure, ownership, and various facilities, as well as service operations & management, financial & marketing issues, and customer/employee relations. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 370

Standard Accounting Systems of the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, ACCT 101 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of accounting fundamentals and business management principles, and the adaptation of them to factory-to-store and day-to-day operations. This is a practical study of the theory, principles, and practice of the preparation and interpretation of accounting statements and business management reports. Topics include an overview of computerized accounting information systems, and practices in business management techniques, such as the importance of strong financial and management control, financial statements and statement analysis. Emphasis will be placed upon the concepts of using accounting fundamental principles, cash & contracts, short-term and long-term liabilities and assets, and stockholders' equity of reporting documents, which are essential to a successful automotive business operation. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 410

Digital Marketing for the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, MRKT 170 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of the various internet and social media marketing strategies, including category-based guidelines impacting the operations of the automotive wholesale and retail business. This is a practical study of the policies and practices of digital marketing, and the necessary tools, templates, and checklists needed to develop a strategic and successful marketing campaign. Topics include in-sourcing and out-sourcing, responsive and adaptive website technologies, developing content, and policies and processes. Emphasis will be placed upon the use of on-line and off-line media to increase customer satisfaction, including the preparation of business management and marketing reports. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 430

Finance & Insurance Regulations for the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of the numerous federal, state, and local agencies and their laws and regulations pertaining to the operation of an automotive wholesale and retail business. This is a practical study of a broad scope of regulatory agencies and regulations such as Department of Motor Vehicles, Internal Revenue Service, Franchise Tax Board, OSHA, EPA, AQMD, NHTSA, Federal Trade Commission, Fair Labor Standards, Truth in Advertising, Truth in Lending, Consumer Leasing Act, Equal Credit Opportunity Act, Fair Credit Reporting Act, and other related agencies and regulations. Topics include an in-depth study of automotive business finance, insurance, and new and certified used vehicle departments within an organization. Emphasis will be placed upon the services offered in these departments and their potential of generating profits and improving customer satisfaction. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 450

Variable & Fixed Operations of the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of successful automotive business models of new and used vehicle operations, as well as the operations of service and parts. Topics include an in-depth study of facilities and shop utilization, scheduling of work, sales promotions, using advertising media, inventory control, repair order generation and control, selecting and motivating employees, and directing sales, parts and service staff. Emphasis will be placed upon maximizing and balancing inventory turnaround, wholesale practices, trade-in appraising, vehicle reconditioning, the role that auctions play, the important relationship between the parts and service departments, technician productivity and efficiency, wholesale and retail parts sales, stock and non-stock parts inventory and ordering practices, and part phase-in/phase-out criteria. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 499

Directed Study in Automotive Technology

Prerequisite: Enrollment requires an AS Degree in Automotive Technology or similar field, and special approval from the program advisor; AUTO 440; AUTO 450

Advisory: ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, or MATH 160, PHY 120 (all with a grade of "C" or better)

The course provides an opportunity for the Automotive Technology student to expand their studies in the Bachelor of Science Degree beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contact the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students are required to take 4 units of Directed Study within a discipline to graduate with a Bachelor of Science degree in Automotive Technology.

4 Units

72 Lecture hours

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.
- Upon completion of the Drug Studies degree, students will demonstrate an understanding of ethical practices in addiction treatment.

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.
- Upon completion of the Drug Studies certificate, students will demonstrate an understanding of recovery-oriented behavior in addiction treatment management.

- Upon completion of the Drug Studies certificate, students will demonstrate an understanding of ethical practices in addiction treatment.

GENERAL STUDIES: SOCIAL BEHAVIOR & SELF-DEVELOPMENT – AA DEGREE

- Students should have the ability to think critically in order to understand social issues

GENERAL STUDIES: SOCIAL SCIENCES –AA DEGREE

- Students should have the ability to think critically in order to understand social issues.
- Students will recognize verbally or in writing the basic vocabulary and concepts of at least one social or behavioral science discipline.

HISTORY – AA-T DEGREE

- Students will demonstrate command of historical chronology and basic literacy of key events associated with the study of the past.
- Students will accurately identify historical sources and then apply appropriate historical methods to explain what the source reveals about its historical context.
- Students will accurately describe, compare, and evaluate historical interpretations (secondary sources), analyzing them for their relative quality, accuracy, and persuasiveness.

PHILOSOPHY – AA 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.

- Students are able to relate material from completed courses to their current and future professional needs, even if these needs fall into a different discipline.

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.
- 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.

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 be able to apply critical thinking and problem-solving skills required by employers and four-year universities in the computer information systems field.
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- 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: 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.
- Student 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 – 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.

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.

LOGISTICS MANAGEMENT – CERTIFICATE

- 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.

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.

MANAGEMENT & SUPERVISION – CERTIFICATE

- 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.

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.

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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SMALL BUSINESS/ENTREPRENEURIALISM CERTIFICATE

- Students should develop an effective business plan by using guerrilla marketing strategies and basic financial statements.
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- Students are able to use break-even analysis to evaluate marketing plan.

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.
- Upon successful completion of this course, students who complete the career path cartographically examine and assemble information for a target audience of who would use the Alternative Fuel types.
- 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

- Upon successful completion of this course, students who complete the career path cartographically examine and assemble information for a target audience who would use the Alternative Fuel types.

- 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.
- 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 – AS DEGREE

- 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.

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.

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.

ENGINEERING DESIGN DRAFTING – AS DEGREE

- 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.

GEOGRAPHIC INFORMATION SYSTEM – CERTIFICATE

- Student can describe and discuss the applications of geographic 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.

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 properly 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.
- 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 digital school newspaper.
- 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

- The student will integrate the simulated clinical experience to enhance clinical performance in all clinical areas.
- 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.

Math & Science Division

BIOLOGY – AS DEGREE

- Students will develop the ability to evaluate scientific information critically, using analytical reasoning and quantitative skills.
- Students will strengthen their skills in reading, writing, oral communication, and critical thinking.

- Students will demonstrate knowledge in three major sub-disciplines of biology: cellular and molecular biology, organismal biology, and ecology and evolution
- Students will understand and use scientific methodology.

ENVIRONMENTAL SCIENCE – AS DEGREE

- Students will apply environmental science concepts and analytical procedures in various fields.
- Students will have the ability to apply economic principles to analyze environmental problems.
- Students will have the ability to work as a member of an interdisciplinary team to solve environmental problems.
- Students will strengthen their skills in reading, writing, oral communication, and critical thinking.

ENVIRONMENTAL TECHNOLOGY – AS DEGREE

- 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.
- 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.
- Identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety.
- Differentiate between fire detection and fire suppression systems; design and diagram a wet and dry fire protection system; identify alarm system components and their operations.
- Demonstrate the ability to analyze, appraise, and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety, including: size-up, report-on conditions, Incident Command System, RECEO, 10 Standard Firefighting Orders, 18 situations that shout "Watch Out," and common factors associated with injuries and line-of-duty deaths.

FIRE TECHNOLOGY – CERTIFICATE

- 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 access 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.

11 Courses of Instruction

Course Numbering System

1-039	Non-degree Credit Courses
040-099	Degree Applicable Non-Transfer Courses
100-290*	Degree Applicable and Transfer level courses
299	Directed Studies
300-499	Upper Division Courses

*Courses numbered 100 and above are usually university parallel courses and are offered for transfer to colleges and universities. See course descriptions for any restrictions on transfer.

**FAC and PAC 4300 Series are non-transferable.

Code for Transferability of Courses

Where applicable, transferability of listed courses is designated by boldface symbols:

UC – Transfers to all University of California campuses and to most other four-year colleges.

UC (Credit Limit - See Counselor)

– Transfers to all University of California campuses and to most other four-year colleges, but there are limitations to the number of units that can be accepted for credit. The student should consult a counselor for details.

CSU Transfers to all campuses of the California State University system and to many other four-year colleges.

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

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 on the following pages. More courses may have been approved for C-ID since the publication of this catalog.

*More courses may have been approved for C-ID since the publication of this catalog.
You can also see C-ID approvals for Rio Hondo College at ASSIST.org or C-ID.net.*

CID Descriptor	RHC Course(s)	Course Title
ACCT 110	ACCT 101	Financial Accounting
ACCT 120	ACCT 102	Managerial Accounting
AJ 110	AJ 101	Introduction to Administration of Justice
AJ 120	AJ 106	Criminal Law I
AJ 122	AJ 102	Criminal Procedures
AJ 124	AJ 104	Legal Aspects of Evidence
AJ 140	AJ 208	Principles of Investigation
AJ 150	AJ 275	Introduction to Forensic Science
AJ 160	AJ 105	Community Relations/Multicultural Issues Within Public Service
AJ 200	CORR 101	Introduction to Corrections
AJ 220	AJ 207	Juvenile Law and Procedure
ALTF 100X	AUTO 147	Introduction to Hybrid and Electric Vehicle Technology

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID) — continued

CID Descriptor	RHC Course(s)	Course Title
ANTH 110	ANTH 101	Introduction to Physical Anthropology
ANTH 110	ANTH 101H	Introduction to Physical Anthropology Honors
ANTH 115L	ANTH 101L	Physical Anthropology Lab
ANTH 120	ANTH 102	Introduction to Cultural Anthropology
ANTH 120	ANTH 102H	Introduction to Cultural Anthropology Honors
ANTH 130	ANTH 104	Introduction to Language and Culture
ANTH 150	ANTH 103	Introduction to Archaeology
ARTH 100	ART 110	Understanding Visual Art
ARTH 110	ART 105	Survey of Western Art: Prehistory through the Middle Ages
ARTH 110	ART 105H	Survey of Western Art: Prehistory through the Middle Ages Honors
ARTH 120	ART 106	Survey of Western Art: Renaissance to Contemporary
ARTH 120	ART 106H	Survey of Western Art: Renaissance to Contemporary Honors
ARTH 130	ART 107	The Art of Asia
ARTH 145	ART 104	Art of the Ancient Americas
ARTH 150	ART 112	Visual Art in the Modern Era
ARTS 100	ART 120	Two-Dimensional Design
ARTS 101	ART 121	Three-Dimensional Design
ARTS 110	ART 130	Freehand Drawing I
ARTS 200	ART 230	Beginning Life Drawing
ARTS 205	ART 131	Freehand Drawing II
ARTS 210	ART 135	Beginning Painting
ARTS 250	ART 170	Introduction to Digital Painting
ARTS 270	ART 124	Color Theory
BIOL 110B	BIOL 125	Human Anatomy
BIOL 120B	BIOL 226	Human Physiology
BIOL 135S	BIOL 200	Principles of Biology 1, Principles of Biology 2
BIOL 190	BIOL 200	Principles of Biology 1

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID) — continued

CID Descriptor	RHC Course(s)	Course Title
BUS 110	MGMT 101	Introduction to Business
BUS 115	MGMT 208	Business Communications
BUS 120	BUSL 110	Legal Environment in Business
BUS 125	BUSL 220	Business Law
CDEV 100	CD 106	Child Growth and Development
CDEV 110	CD 208	Child, Family and Community
CHEM 110	CHEM 130	General Chemistry
CHEM 120S	CHEM 130, CHEM 140	General Chemistry
CHEM 150	CHEM230	Organic Chemistry I
CHEM 160S	CHEM 230, CHEM 231	Organic Chemistry I, Organic Chemistry II
COMM 110	SPCH 101	Public Speaking
COMM 110	SPCH 101H	Public Speaking Honors
COMM 120	SPCH 140	Argumentation and Debate
COMM 120	SPCH 240	Argumentation and Discussion
COMM 130	SPCH 100	Interpersonal Communication
COMM 150	SPCH 150	Intercultural Communications
COMM 160B	SPCH 110	Forensics: Speech and Debate Team
COMM 170	SPCH 130	Oral Interpretation
COMM 190	SPCH 240	Argumentation and Discussion
ECE 120	CD 110	Principles and Practices of Early Childhood Education
ECE 130	CD 111	Early Childhood Education Curriculum
ECE 200	CD 114	Observation and Assessment
ECE 210	CD 228	Early Childhood Education Practicum
ECE 220	CD 102	Nutrition, Health and Safety for Children
ECE 230	CD 224	Diversity Issues During Early Childhood, School Age and
ECON 201	ECON 102	Principles of Microeconomics
ECON 201	ECON 102H	Principles of Microeconomics Honors

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID) — continued

CID Descriptor	RHC Course(s)	Course Title
ECON 202	ECON 101	Principles of Macroeconomics
ECON 202	ECON 101H	Principles of Macroeconomics Honors
ENGL 100	ENGL 101	College Composition and Research
ENGL 105	ENGL 201	Advanced Composition and Critical Thinking
ENGL 105	ENGL 201H	Advanced Composition and Critical Thinking Honors
ENGL 120	LIT 102H	Approaches to Literature Honors
ENGL 120	LIT 102	Approaches to Literature
ENGL 130	LIT 112A	American Literature
ENGL 130	LIT 112AH	American Literature Honors
ENGL 135	LIT 112B	American Literature
ENGL 135	LIT 112BH	American Literature Honors
ENGL 140	LIT 144A	World Literature
ENGL 145	LIT 144B	World Literature
ENGL 160	LIT 146A	British Literature
ENGL 160	LIT 146AH	British Literature Honors
ENGL 165	LIT 146B	British Literature
ENGL 165	LIT 146BH	British Literature Honors
ENGL 180	LIT 114H	Children's and Adolescent Literature Honors
ENGL 180	LIT 114	Children's and Adolescent Literature
ENGL 200	ENGL 131	Creative Writing
GEOG 110	GEOG 101	Introduction to Physical Geography
GEOG 111	GEOG 101L	Introduction to Physical Geography Laboratory
GEOG 120	GEOG 102	Introduction to Cultural Geography
GEOG 125	GEOG 103	World Regional Geography
GEOL 100	GEOL 150	Physical Geology
GEOL 100L	GEOL 151	Physical Geology Laboratory
GEOL 110	GEOL 152	Historical Geology

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID) — continued

CID Descriptor	RHC Course(s)	Course Title
HIST 130	HIST 143	History of the United States to 1877
HIST 130	HIST 143H	History of the United States to 1877 Honors
HIST 140	HIST 144	History of the United States Since 1865
HIST 140	HIST 144	History of the United States Since 1865 Honors
HIST 150	HIST 101	History of World Civilization to the 17 th Century
HIST 160	HIST 102	History of World Civilization, 1500 to the Present
JOUR 100	MSCM 128	Mass Media in Modern Society
JOUR 110	JOUR 120	Communications Reporting and Writing
JOUR 130	JOUR 241	Newspaper Production I
JOUR 130	JOUR 242	Digital Newspaper Production I
JOUR 131	JOUR 243	Newspaper Production II
JOUR 131	JOUR 244	Digital Newspaper Production II
KIN 100	KIN 194	Introduction to Kinesiology
KIN 101	KIN 193	Standard First Aid and CPR
MATH 110	PSY 190	Statistics for the Behavioral Sciences
MATH 110	MATH 130	Statistics
MATH 110	MATH 130H	Statistics Honors
MATH 140	MATH 170	Elements of Calculus
MATH 150	MATH 160	College Algebra
MATH 220	MATH 191	Calculus II
MATH 155	MATH 180	Pre-Calculus
MATH 210	MATH 190H	Calculus I Honors
MATH 210	MATH 190	Calculus I
MATH 230	MATH 250	Calculus III
MATH 240	MATH 270	Differential Equations
MATH 250	MATH 260	Linear Algebra
MATH 851	MATH 175	Plane Trigonometry

COURSE IDENTIFICATION NUMBERING SYSTEM (C-ID) — continued

CID Descriptor	RHC Course(s)	Course Title
MATH 900S	MATH 190 MATH 191	Calculus I and Calculus II
MUS100	MUS 133	Music Appreciation
MUS 110	MUS 101	Fundamentals of Music
MUS 125	MUS 106	Musicianship I
MUS 160	MUS 181	Applied Music I
PHIL 100	PHIL 101	Introduction Philosophy
PHIL 100	PHIL 101H	Introduction Philosophy Honors
PHIL 110	PHIL 112	Introduction to Logic
PHIL 120	PHIL 120	Introduction to Ethics
PHIL 130	PHIL 124	History of Philosophy: Ancient
PHIL 140	PHIL 126	History of Philosophy: Modern
PHIL 210	PHIL 115	Symbolic Logic
PHYS 100S	PHY 150 PHY 160	General Physics—I General Physics II
PHYS 105	PHY 150	General Physics—I
PHYS 110	PHY 160	General Physics II
PHYS200S	PHY 211, PHY 212, PHY 213	Physics for Scientists and Engineers I, II, and III
PHYS205	PHY 211	Physics for Scientists and Engineers I
PHYS210	PHY 213	Physics for Scientists and Engineers III
PHYS215	PHY 212	Physics for Scientists and Engineers II
POLS 110	POLS 110	Government of the United States
POLS 110	POLS 110H	Government of the United States Honors
POLS 120	POLS 128	Introduction to Political Philosophy
POLS 130	POLS 130	Comparative Government
POLS 140	POLS 140	International Relations
PSY 110	PSY 101H	Introduction to Psychology Honors
PSY 110	PSY 101	Introduction to Psychology
PSY 120	PSY 114	Introduction to Abnormal Psychology

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PSY 150	PSY 210H	Biological Psychology Honors
PSY 180	PSY 112	Lifespan Development
PSY 200	PSY 200	Research Methods in Psychology
SOCI 110	SOC 101	Introduction to Sociology
SOCI 110	SOC 101H	Introduction to Sociology Honors
SOCI 115	SOC 102	Major Social Problems
SOCI 125	PSY 190	Statistics for the Behavioral Sciences
SOCI 130	SOC 114	Marriage, Family and Intimate Relations
SOCI 140	SOC 120	Perspectives of Sex & Gender
SOCI 150	SOC 116	Introduction to Race and Ethnic Relations
SOCI 160	SOC 127	Introduction to Criminology
SPAN 100	SPAN 101	Spanish I
SPAN 110	SPAN 102	Spanish II
SPAN 200	SPAN 201	Spanish III
SPAN 200	SPAN 201H	Spanish III Honors
SPAN 210	SPAN 202	Spanish IV
THTR 111	THTR 101	Theatre Arts Appreciation
THTR 112	THTR 101	Theatre Arts Appreciation
THTR 113	THTR 105	The History and Development of the Theatre
THTR 113	THTR 105H	The History and Development of the Theatre
THTR 151	THTR 110	Principles of Acting
THTR 152	THTR 111	Principles of Acting
THTR 171	THTR 150	Theatre Crafts I
THTR 173	THTR 153	Stage Lighting
THTR 191	THTR 170	Theatre Rehearsal and Performance
THTR 192	THTR 159	Stage Crew Activity

*More courses may have been approved for C-ID since the publication of this catalog.
You can also see C-ID approvals for Rio Hondo College at ASSIST.org or C-ID.net.*

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ACCOUNTING

Division of Business

ACCT 100

Introduction to Accounting (Formerly ACCT 090)

Advisory: READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment; MGMT 052

Transfers to: CSU

This course provides basic knowledge of accounting terms, concepts, and procedures for a sole proprietorship form of business. Topics include the analysis and recording of business transactions for service and merchandising firms, and the preparation of simple financial statements. Accounting for cash, sales, purchases, payroll, and the end-of-the-year procedures are presented. This course is designed for the occupationally-oriented students or those preparing for Financial Accounting and Computerized Accounting.

3 Units

54 Lecture 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

Transfers to: UC, CSU

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 101H

Financial Accounting Honors

Prerequisite: ENGL 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; ACCT 100; MGMT 052

Transfers to: CSU

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, 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. This course is intended for students eligible for the Honors Program.

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

Transfers to: CSU

This course combines basic accounting skills with specialized training in payroll accounting to prepare students for entry-level positions within the payroll segment of accounting. This course is designed for accounting majors and those interested in pursuing an entry-level position 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

Transfers to: CSU

This course is an introduction to the fundamentals of government and not-for-profit accounting. The emphasis of the course will be placed on accounting for various fund types and restrictions relevant to government and not-for-profit agencies with both theoretical and practical aspects explored. Topics include budgets, revenues, expenditures, tax levies, appropriations, general fund, special fund, and financial statements for government and not-for-profit entities. This course is designed for students interested in furthering their educational requirements for the CPA exam and/or pursuing an entry-level position in government and not-for-profit accounting.

3 Units

54 Lecture hours

ACCT 105

Income Tax Accounting

Advisory: READ 023 or appropriate assessment; ACCT 101

Transfers to: CSU

This course covers Federal and California State income tax laws and preparation as related to individuals and small business entities. Emphasis is placed upon income inclusion, exclusion, exemptions, capital gains and losses, and business and individual deductions. Students who successfully complete the course with at least a "C" grade will be certified by the California Tax Education Council as fulfilling the 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 107

Accounting Ethics

Prerequisite: ACCT 101 with a grade of "C" or better

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This course is an introduction to professional ethics in the accounting and business environments. This course will cover principles and core philosophies of ethics by examining accountants' role in different aspects of the accounting profession such as auditing, management and taxation. It will prepare students to develop their framework for making ethical decisions in their profession by learning how to ask questions and analyze ethical issues encountered in the accounting field. This course is designed for students pursuing an accounting certificate or degree, and for students looking to satisfy the accounting ethics requirement for the CPA exams.

3 Units

54 Lecture hours

ACCT 108

Volunteer Income Tax Assistance Program I

(Formerly ACCT 096)

Advisory: READ 023 or appropriate assessment; ACCT 105

Transfers to: CSU

This is the first course in a sequence of two courses designed for students who want to be a part of the Volunteer Income Tax Assistance (VITA) program at Rio Hondo. 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.

1 Unit

18 Lecture hours

ACCT 109

Volunteer Income Tax Assistance Program II

(Formerly ACCT 097)

Prerequisite: ACCT 108

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This is the second course in a sequence of two courses designed for students who want to volunteer in the Volunteer Income Tax Assistance (VITA) program at Rio Hondo. This

course will allow students who have successfully passed ACCT 108 to apply their tax knowledge by assisting low-income individuals and families with tax return preparation through the VITA program for the current year. Students will learn to use the TaxWise software to accurately file individual federal and state income tax returns within the scope of the VITA program. Students will learn how to develop a system of quality control for actual taxpayer returns as well as develop their communication skills through interviews of taxpayers and explanation of tax return results.

1 Unit

54 - Lab 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 employ-

ment. 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 Other 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 3.0 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 162 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 semiautomatic 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; AJ 101

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; AJ 101

Transfers to: UC, CSU

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics covered may include crime prevention, restorative justice, conflict resolution, and ethics.

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

AJ 107

Criminal Law II

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 207 (C-ID AJ 220)

Juvenile Law and Procedure

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 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; AJ 101

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

AJ 290

Cooperative Work Experience/Internship for Administration of Justice 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 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 Other hours

AJ 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 3.0 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 162 Lab hours

ALTERNATIVE ENERGY TECHNOLOGY

**Division of Career & Technical
Education**

AET 120

Introduction to Alternative Energy Technology (Same as ET 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: 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 that 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)

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 calcu-

lations, 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)

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 that 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)

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 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

AET 124

Advanced Wind Energy Systems Design and Installation (Same as ET 124)

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

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, 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 181

Home Energy Management and Auditing (Same as ET 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: Appliances, Insulation, Designing/Remodeling, Electricity, Landscaping, Lighting, Space Heating and Cooling, Water Heating, Doors/Windows/Skylights, and Home Energy Audits.

3 Units

54 Lecture 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****AET 299****Directed Study in Alternative Energy Technology**

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Alternative Energy Technology beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units**54 to 162 Lab hours****AMERICAN SIGN LANGUAGE****Division of Communication & Languages****ASL 149****American Sign Language I**

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU

This course will provide an introduction to American Sign Language emphasizing receptive and expressive skills. The use of facial expressions during signing will also be addressed. Students will be exposed to deaf culture experiences both in the classroom and in other environments. This course is designed for people who wish to learn to communicate with those who are deaf and hard of hearing.

4 Units**72 Lecture hours****ASL 150****American Sign Language II**

Prerequisite: ASL 149 with a "C" or better or two years of high school ASL with a "C" or better
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU

This course will provide a continuation of American Sign Language I emphasizing receptive and expressive skills. The use of facial expressions during signing will also be addressed. Students will be exposed to deaf culture experiences both in the classroom and in other environments. This course is designed for people who wish to continue learning

to communicate with those who are deaf and hard of hearing.

4 Units**72 Lecture hours****ANIMATION****Division of Arts & Cultural Programs****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).

4 Units**54 Lecture hours****54 Lab hours****ANIM 105****Principles of Digital Animation**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; ART 130; ART 230
Transfers to: CSU

This course introduces students to the basic principles of digital animation. The topics covered in this course are the starting point for any student interested in becoming a digital animator. Through the use of solid drawing and 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.

4 Units**54 Lecture hours****54 Lab hours****ANIM 110****Digital Character Animation**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 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 appropri-

ate and beneficial for all students in courses related to Graphic Arts (Multimedia, Illustration, Internet 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 133

Character Design

Prerequisite: ANIM 260

Advisory: ENGL 035 or ENLA 100 or

appropriate assessment; READ 023 or appropriate assessment; ART 170
Transfers to: CSU

This class is intended to teach the fundamentals of character design. Students learn the basics in character development by revising and polishing innovative designs of visually intriguing characters. The course helps students master and use gesture, construction and anatomy in their designs. Students learn to use digital tools to sketch, paint and build a visually compelling portfolio of characters.

4 Units

54 Lecture hours

54 Lab hours

ANIM 134

Mech and Vehicle Design

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ART 170
Transfers to: CSU

This class is geared towards designing mechs, and vehicles of all types for the entertainment industry. Centered on digital drawing and rendering using Photoshop, students create and present finished portfolio pages. The course takes students through a clear and efficient design process emphasizing storytelling, gesture, shape, and color.

4 Units

54 Lecture hours

54 Lab hours

ANIM 135

Environment Design

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ANIM 101
Transfers to: CSU

This class introduces students to the artistic and technical requirements needed to work in the entertainment industry as environment artists. Through class projects, students learn the latest techniques in the construction of game levels using Maya and Unity. In addition to level design and the practical aspects of modeling and lighting, an emphasis is placed on the artistic merit of the student's work through value, color, design and composition.

4 Units

54 Lecture hours

54 Lab hours

ANIM 140

Animation Portfolio

Prerequisite: ANIM 101; ANIM 105
Advisory: ENGL 035 or ENLA 100 or appropriate assessment
Transfers to: CSU

This course will prepare digital artists to talk about and present their artwork in a professional manner. Students will select an area of concentration within Entertainment Design to focus a portfolio project around.

Using programs such as Photoshop CC, Premier CC, ZBrush, Maya and the Unity game engine students will create an online portfolio. This course is an excellent opportunity for students interested in developing and presenting a body of work that will help them take the next step in their professional career.

4 Units

54 Lecture hours

54 Lab hours

ANIM 260

Figure Drawing for Animators

Prerequisite: ART 230

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: CSU

A figure drawing course for animators that focuses on gesture and how to capture the essential movement, dynamic expression, and the individual attitude of the model. This course is designed to introduce and develop an understanding of life drawing that will serve as a foundation for further studies in animation and entertainment arts. Students will refine basic skills in human anatomy while learning to draw the figure in sequential movement, understand weight and balance, facial and body expression, and figure invention.

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

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 101H (C-ID ANTH 110)

Introduction to Physical Anthropology Honors

Prerequisite: ENGL 101 with a grade of "C" or better; 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 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 101L (C-IDANTH 115L)

Physical Anthropology Lab

Prerequisite/Corequisite: ANTH 101 or ANTH 101H

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This laboratory course, designed to complement the lecture course, is for students interested in expanding their knowledge of physical anthropology. Students will be introduced to the methods, techniques, and procedures used in physical anthropology research, gaining practical experience by participating in laboratory activities and experiments employing the scientific method. Laboratory exercises will include an assessment of the forces that affect evolutionary change, the observation of primate behavior, the assessment of human variation, and the identification and classification of the skeletal features of humans, non-human primates,

and human ancestors. Also included will be an exploration of Mendelian, molecular, and population genetics.

1 Unit

54 Lab hours

ANTH 102 (C-ID ANTH 120)

Introduction to Cultural Anthropology

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; 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 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. This course is intended for those who meet Honors Program requirements.

3 Units

54 Lecture hours

ANTH 103 (C-ID ANTH 150)

Introduction to Archaeology

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 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 (C-ID ANTH 130)

Introduction to Language and Culture

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 anthropology or anyone interested in learning about the diversity of communication forms and language systems around the world. The course investigates the development and evolution of language, the structure and the sound systems of different languages, language loss and conservation, and the variations in different languages such as dialects and the social situations in which they are used. The different forms of verbal and non-verbal communication are studied across cultures with special attention paid to the use of technology like social media and the problems that arise in communication between people of different class, gender, and ethnicity in our globalized world.

3 Units

54 Lecture hours

ANTH 110**Human Sexuality from a Cross-Cultural Perspective (Same as SOC 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 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

ANTH 115**Introduction to Medical Anthropology**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

Medical anthropology explores the perceptions of disease, health, and 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 witchdoctors and shaman, 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

ARCHITECTURE

Division of Career & Technical Education

ARCH 110**Construction Document Reading and Estimating**

(Formerly ARCH 095)

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 beneficial for apprentices, students of architecture and employees in all areas of the construction industry, and covers residential, light commercial and industrial building construction. An introduction to the use of prints, construction documents and the theory of construction estimating, as used in the building industry will be presented. Principles of reading working drawings, plans, H.V.A.C. specifications, details, elevations and electrical specifications are included as well as material estimating, estimating rules, tables and procedures.

3 Units

45 Lecture hours

27 Lab 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 symbol-ogy, 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

54 Lecture hours

54 Lab hours

ARCH 125**Residential Architecture and Detailing**

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 intermediate level course is for students pursuing a degree or certificate in Architectural Design and Drawing and is a requirement for both the A.S. degree and certificate. This course involves creating a set of construction drawings for a two story structure and emphasizes the study of wall and construction systems, foundation systems, detailing of wood and concrete systems, sections, interior details, and completion of the residential construction documents. Emphasis is placed on development of technical skills in detailing, use of reference materials, building codes, standard construction techniques and architectural graphic standards. All construction documents will be developed using CADD.

3 Units

36 Lecture hours

54 Lab hours

ARCH 215**Architectural Perspective and Rendering**

Prerequisite: ARCH 115

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 105

Transfers to: CSU

This course is for all students interested in developing skills in architectural perspective drawing and is a requirement for the Architecture A.S. degree. Students will be introduced to the theory of and practical application of perspective drawing and rendering as used in architecture. Topics include one, two, and three point perspectives, entourage, and introduction to rendering techniques, such as water color, markers, film, pastels, pencil, pen and ink. Presentation techniques will also be discussed.

4 Units

54 Lecture hours

54 Lab 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 flow, landscape, foundation design and construction details.

4 Units

54 Lecture hours

54 Lab hours

ARCH 235
Architectural Design Studio

Prerequisite: ARCH 215

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 150

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 200

Transfers to: CSU

This course is for all students pursuing an A.S. Degree in Architecture (Transfer) and Architectural Design and Drawing 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.

4 Units

54 Lecture hours

54 Lab hours

ARCH 280
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; 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, 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

ARCH 290
Cooperative Work Experience/Internship for Architecture 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 architecture 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 Other hours

ARCH 299**Directed Study in Architecture Design**

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Architecture Design & Drawing beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units**54 to 162 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 of lectures and hands-on projects within an art historical and conceptual framework. Project and topics include drawing, painting, print-making, design, mixed media and sculpture.

3 Units**27 Lecture hours****81 Lab hours****ART 104 (C-ID ARTH 145)****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 Huancabazo, 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 or Art History or seeking to fulfill general education requirements in Fine Arts and Humanities.

3 Units**54 Lecture hours****ART 105H (C-ID ARTH 110)****Survey of Western Art: Prehistory through the Middle Ages Honors**

Prerequisite: ENGL 101 with a "C" or better and a minimum GPA of 3.2
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 105 or ART 105H)

This course presents a broad overview of Prehistoric, Mesopotamian, Egyptian, Greek, Etruscan, Roman, Early Christian, Islamic, and Medieval art and architecture. This course is appropriate for all students pursuing the degree in Studio Art and/or seeking to fulfill general education requirements in Fine Arts and Humanities. This course is designed for those who meet Honors Program requirements.

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 for 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 PreColumbian, 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 (C-ID ARTH 100)**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 introduction to the study of visual art: its vocabulary, its forms, the many roles it plays in society, and the variety of processes artists master in its making. Students gain insight into current approaches used in interpreting meaning from art and explore questions about the ways in which value is assigned to the art object. Using examples from cultures around the world and across time, this course offers a broad overview to any student interested in art and culture and to those seeking to fulfill general education requirements in Fine Arts and Humanities.

3 Units

54 Lecture hours

ART 112 (C-ID ARTH 150)**Visual Art in the Modern Era**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

ART 112 is a survey of developments in art and architecture from the early 19th century through the 20th century and into the 21st. From Neoclassicism and Romanticism through Postmodernism and contemporary art, visual art movements will be discussed in relation to stylistic trends, philosophical influences, innovations in technology, and other historical and social contexts. The roles played by artist, critic, and consumer in shaping these movements will be examined, as well as visual art's impact upon society in the Modern Era. This course is appropriate for all students pursuing the degree in Art History and/or seeking to fulfill general education requirements in Fine Arts and Humanities.

3 Units

54 Lecture hours

ART 113**The History of Photography**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This lecture course examines the history of photography from its invention in the 1830s to the present. The technological development, social role, and aesthetic possibilities of photography will be discussed in relation to major historical, art historical, cultural, and political influences. This course is appropriate for all students interested in photography, art, and art history and culture and for those seeking to fulfill the general education requirement for Fine Arts and Humanities, as well as Studio Art majors and Art History majors.

3 Units

54 Lecture hours

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 (C-ID ARTS 100)**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 creative expression through lecture presentations, studio projects, and written assignments.

3 Units

54 Lecture hours

54 Lab hours

ART 121 (C-ID ARTS 101)**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

54 Lecture hours

54 Lab hours

ART 124 (C-ID ARTS 270)**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 (C-ID ARTS 205)

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 strengthening skills introduced in Freehand Drawing I, the exploration of color in drawing and concepts related to content.

3 Units

27 Lecture hours

81 Lab hours

ART 135 (C-ID ARTS 210)

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 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 142

Introduction to Ceramic Handbuilding

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This is a first semester course for art and non-art majors. It is designed to introduce students to the concepts, techniques, history, and contemporary practices of handbuilding in the ceramics arts. This course can be taken once and repeated three times for credit. This class is for any student who is interested in the fundamentals of clay construction using hand-building technique.

3 Units

36 Lecture hours

54 Lab hours

ART 146

Introduction to Sculpture

Prerequisite: ART 121

Advisory: ENGL 035 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. The course is an introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.

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 035 or ENLA 100 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: UC, CSU

Intended for the student interested in developing skills in rendering and illustration, this course is a beginning course in illustration and rendering exploring both traditional and contemporary drawing techniques, stressing an ability to perceive and define shape, contour, volume, texture, space, and light both realistically as well as expressively using various media. Emphasis is on learning the techniques of illustration, understanding the use of color, while strengthening observation and rendering skills.

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 170 (C-ID ARTS 250)**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 175**Computer Graphics**

Advisory: READ 022 or appropriate assessment

Transfers to: UC, 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 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 022 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 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This is a third semester course in painting for the art and non-art major. The course constitutes a study of advanced painting problems stressing experimentation with traditional and contemporary methods of painting, composition, and expression. Class and individual projects using figure, still life, landscape, abstraction, shaped format, altered scale and material exploitation will be stressed.

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 problem-solving in forms, shapes, decorative techniques and glazing.

3 Units

36 Lecture hours

72 Lab hours

ART 252

Advanced Printmaking

Advisory: 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 Other hours

ART 299A

Directed Study in Art History

Advisory: ART 104 or 105 or 105H or 106 or 106H or 107 or 108 or 109 or 112 or 113 or 115

Transfers to: CSU

The course provides an opportunity for students to expand their studies in Art History beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ART 299C**Directed Study in Ceramics**

Prerequisite: ART 141

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in ceramics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ART 299D**Directed Study in Drawing**

Prerequisite: ART 232 or ART 233

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in drawing beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ART 299F**Directed Study in Artistic Anatomy**

Prerequisite: ART 232

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: CSU

The course provides an opportunity for the art student to expand their studies in anatomical form beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the dis-

cipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ART 299G**Directed Study in Gallery and Museum Practices**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ART 180 or any one of the following: ART 104, 105, 105H, 106, 106H, 107, 108, 109, 112, 113, 115

Transfers to: CSU

The course provides an opportunity for students to expand their studies in gallery and museum practices beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ART 299P**Directed Study in Painting**

Prerequisite: ART 236

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in painting beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ART 299PP**Directed Study in Portfolio Preparation**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; Any one of the following: ART 131, 136, 141, 142, 165, 231, or PHTO 191

Transfers to: CSU

The course provides an opportunity for Visual Arts students to prepare and develop a professional portfolio. The portfolio project will be arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ART 299S**Directed Study in Sculpture**

Prerequisite: ART 121 or ART 142 or ART 146

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in sculpture and three-dimensional form beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 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 Units 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 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 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 students will apply the theoretical concepts in the clinical setting. This course is designed for students in the Associate Degree Nursing Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both 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 and ADN 150L
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, intrapersonal/interpersonal and developmental aspects of human reproduction. The nursing process is utilized in meeting maternal, newborn, and family needs as they relate to human reproduction. This course also focuses on women's health issues with regard to fertility, family planning, gynecological problems and related needs, and the utilization of the nursing process to meet those needs. The Board of Registered Nursing requires that students must be concurrently enrolled in both 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 pathophysiology's 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 with a grade of "C" or better; ADN 150L with a "Pass"

Corequisite: ADN 156L

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. The students will apply the theoretical concepts in the clinical setting. This course is designed for students in the Associate Degree Nursing Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both 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 of "C" or better; ADN 075 (for LVN to ADN students) with a grade of "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 Units

36 Lecture hours

ADN 251L Medical/Surgical Nursing II Lab

Prerequisite: ADN 155 and ADN 156 (for generic ADN students) both with a 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 ADN 252 and ADN 252L corequisites); ADN 250 and ADN 251

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 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, intra-personal 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 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 intervention for patients with psychiatric and mental health problems. Basic concepts related to biological, intra-personal 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.

1.5 Units

81 Lab 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 Units

36 Lecture hours

ADN 253L

Medical/Surgical Nursing III Lab

Prerequisite: ADN 250, ADN 251 and ADN 252 all with a grade of "C" or better; ADN 251L and ADN 252L all with a "Pass"

Corequisite: ADN 253

Transfers to: CSU

This course focuses on the nursing process with patients requiring complex nursing care. The course emphasizes generalized emergencies, immunologic problems and oncologic problems. The course integrates all past nursing theory to assist the nursing student with advanced nursing concepts. The students will apply the theoretical concepts in the clinical setting. This course is designed for students in the Associate Degree Nursing Program. The Board of Registered Nursing requires that students must be concurrently enrolled in both ADN 253 and ADN 253L, and pass both courses together. They cannot be taken individually for credit.

3 Units

162 Lab hours

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 Other 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*

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 150

Astronomy Field Studies

Prerequisite: ASTR 110

Transfers to: CSU

This is an observational course designed for students who wish to study celestial objects and observe celestial motions in clear, dark skies through field investigations. Students will develop the skill required to operate portable telescopes in their investigations of stars, constellations, planets, nebulae multiple star systems, the moon, the sun, and the Milky Way. Visual observations of meteors will be conducted nightly.

This course is designed for those who wish to learn night skies and the observational tools of the astronomer. Area of study will include, but will not be limited to, campsites in National Monuments and Parks in the southwestern United States.

1 to 2 Units

9 to 18 Lecture hours

27 to 54 Lab hours

ASTR 299

Directed Study: Astronomy

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 162 Lab hours

AUTOMOTIVE TECHNOLOGY

Division of Career & Technical Education

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 MLR modules and the Express Service evaluation will count toward the students MRLS certification/certificate.

4 Units

72 Lecture hours

AUTO 0451

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 Systems Certificate of Achievement and is in partial fulfillment of the Honda PACT Program AS Degree.
4 Units
72 Lecture hours

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 a requirement for the Honda/Acura Professional Career Training Program (PACT Program) Powertrain and Transmission Systems Certificate of Achievement and is in partial fulfillment of the Honda PACT AS degree.
4 Units
72 Lecture hours

AUTO 0461
Honda/Acura Occupant Safety Systems

Corequisite: AUTO 240
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
This course provides instruction relating to specific supplemental restraint systems: cable reel, Occupant Detection Systems (ODS), electrical system voltage thresholds, impact sensor inputs, air bag deployment and Supplement Restraint Systems (SRS) safety. Students will engage in activities using special Honda diagnostic equipment to research SRS repair and safety precaution topics from the Honda Interactive Training Network (HINT). Students will also participate in instructor led demonstrations and interactive classroom assignments. Course completion shall include finishing all of the HINT course training modules and proof of module posting on American Honda's Dealer Personal Tracking System (DPTS). The course is a requirement for the Honda/Acura Professional Training Program (PACT Program) Air Conditioning and Supplemental Restraint

Systems Certificate of Achievement and is in partial fulfillment of the Honda PACT Program AS degree.
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
27 Lab 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
27 Lab 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
27 Lab 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
27 Lab 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 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, Driveability, 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; AUTO 108

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 driveability 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 updat-

ing 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 138

Fuel Injection Systems II

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 post-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 1996 to the present. 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 140

Body and Chassis Electrical Systems

Prerequisite: AUTO 102 or AUTO 106

Advisory: READ 023 or appropriate assessment; AUTO 157

Transfers to: CSU

This course provides an overview of the modern automobile's electrical system as related to the body and chassis of the vehicle. The theory of operation, operational characteristics and methods of problem diagnostics and repair for the following systems are included: lighting, instruments, windshield wipers, power windows/seats/mirrors, audio systems, convertible tops, safety restraints, (SRS) Supplemental Restraint Systems, and anti-theft systems. This course prepares the student for the (ASE) Automotive service Excellence A-6 exam and is intended for Automotive majors. Students with permission from the Division may re-enroll only one time for certification or licensure standards.

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 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 (C-ID ALTF 100X)

Introduction to Hybrid and Electric Vehicle Technology

Prerequisite: AUTO 157

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 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 manufacturers 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

Transfers 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

54 Lab 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

Transfers 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

Prerequisite: AUTO 106

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an overview of the principles of automotive electronics. Topics covered include electrical theory, fundamentals of circuit construction, computers, semiconductors, microprocessors, integrated circuits (IC), types of output signals, wire repair techniques, meter usage and strategy based diagnostics. A demonstration General Motors circuit board will be used to illustrate circuit board function. This course is designed for entry level technicians or students who need an understanding of the basics of automotive electronics.

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

Transfers to: CSU

This course provides occupational preparation in the skills required in the adjustment and repair of the modern automobile engine upper end and valve train assembly. Emphasis is placed on problem diagnosis, repair techniques, service procedures, and machining operations. This course prepares the student for the (ASE) Automotive Service Excellence A-1 exam and is intended for automotive majors. Students with permission

from the Division may re-enroll only one time for certification or licensure standards.

4 Units

54 Lecture hours

54 Lab hours

AUTO 170

Lower End Engine Rebuilding and Machining

Prerequisite: AUTO 101

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; AUTO 160

Transfers to: CSU

This course provides occupational preparation in the skills required for adjustment and repair of modern automobile engine lower end assembly. Emphasis is placed on problem diagnosis, repair techniques, service procedures, and machining operations. This course prepares students for the Automotive Service Excellence (ASE) A-1 exam and is intended for automotive majors.

4 Units

54 Lecture hours

54 Lab hours

AUTO 180

Advanced Automotive Diagnostic Procedures and Practices

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 modern automotive technology, service, and repair. Course content includes an advanced study emphasizing the latest theories and principles of automotive diagnosis and troubleshooting procedures. Emphasis will be placed on advanced powertrain and powertrain management systems, electronically controlled systems, and vehicle network systems diagnosis and repair. The use of a variety of modern diagnostic tools and equipment is included.

3 Units

45 Lecture hours

27 Lab hours

AUTO 190

Engine Blueprinting & Machining

Advisory: AUTO 160 or AUTO 170; READ 023 or appropriate assessment

Transfers to: CSU

This is an advanced course for students interested in engine blueprinting and engine machining practices. Topics include: cylinder block machining and preparation, cylinder head machining and repair, crankshaft materials and construction, connecting rod applications and machining, piston design and applications as well as camshaft lobe applications and profile analysis. Stu-

dents 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 suspension, steering and alignment. Students with permission from the Division may reenroll only one time for certification or licensure standards.

4 Units

54 Lecture hours

54 Lab hours

AUTO 201

Automotive Brake and Suspension Service

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 discusses brakes and suspension theory of operation, service and repair procedures, related tool and equipment use and strategy based problem diagnosis. These procedures for imported and domestic automobiles and light trucks are developed through classroom discussions, demonstrations and laboratory experiences. This course is designed for students wanting to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in brake and suspension service.

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 service. Students with permission from the Division may reenroll only one time for certification or licensure standards.

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; AUTO 210

Transfers to: CSU

This course is designed for students wanting to work in the automotive sector or automotive technicians needing to improve their skills and knowledge in modern Anti-lock and/or Traction Control systems. This course will provide instruction in automotive anti-lock brake systems, traction control systems and vehicle stability assist (VSA), including diagnosis, operation and maintenance of ABS/ TCS/VSA. The course will include the use of scanners, DVOM meters and lab-scopes in diagnosis of various ABS/TCS/VSA systems; both 2 wheel and 4 wheel systems will be covered.

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/4WD 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 265

Fuel Cell Technology Fundamentals

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 106

Transfer to: CSU

This course creates the fundamental learning process of the different types of fuel cells and the application for power generation for mobile, vehicular, and stationary power. Topics will include: OSHA/NEC/NFPA safety standards when developing, servicing and working in a high voltage/power inverter transfer, battery storage technologies, regeneration of electrical power from kinetic energy. A descriptive overview of key fuel cell technologies including proton exchange membrane (PEM), direct methanol fuel cell, and solid oxide fuel cell will be provided together with potential applications for transportation, stationary, and portable power. Hydrogen production/storage will also be covered.

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

AUTO 299

Directed Study in Automotive Technology

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in Automotive Technology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

AUTO 300

Assessment of the Automotive Industry

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor

Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160 (all with a grade of "C" or better)

This course provides the Automotive Technology student with a detailed practical study of how to be successful in the Automotive Service, Parts, and Sales Industry. This is a practical study of current service, parts, and sales practices performed in dealerships and independent repair shops, while also discussing the review and preparation of the theory and skills necessary to successfully pass the Automotive Service Excellence (ASE) Exams relevant to Industry Standards. Topics include becoming efficient in the shop, mastering the various pay systems, understanding managers and owners, building customer loyalty, demonstrating workplace and social ethics, and making Customer Satisfaction Index (CSI) values work for all employees. In addition, vehicle engines, transmissions, brakes, suspension, air conditioning, and engine performance systems, parts, and components, and new and emerging technologies that support the service and repair of the modern automobile will be discussed. Emphasis will be placed upon the important tasks of proper repair procedures, the safe use of tools, equipment, technical data, and scan tools, as well as the ins-and-outs of the business of service, parts, and sales. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to

advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 310

The Global Development and Advancement of the Automobile

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor

Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160 (all with a grade of "C" or better)

This course provides the Automotive Technology student with a detailed practical study of the development of the Automobile from its beginnings to the present day. This is a practical study of the invention of the first suitable power source to be adopted to self-propel a road vehicle and how it resulted in a major paradigm shift to revolutionize transportation and the ability of individual mobility. Topics include the development of animal-drawn transportation devices and the quest for a prime mover, the pioneering era of the automobile and how it lead to it being an industrial product, mass-production of the automobile and how it became a consumer product, and new and emerging technologies that support the automobile and motorized traffic and transportation systems. Emphasis will be placed upon the global perspective, particularly the developments that occurred in the United States, Europe, and Asia, and the numerous technological and business revolutions of the first and second half of the 20th century. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle-After Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 320

The Progressive Growth of Automotive Technology

Prerequisite: Enrollment requires an AS degree in Automotive Technology or similar field, and special approval from the program advisor

Advisory: PHY 120, ENGL 201 or ENGL 201H, and MATH 130 or MATH 130H or MATH 160 (all with a grade of "C" or better)

This course provides the Automotive Technology student with a detailed practical study of the development of Automotive Technology from its

beginnings to the present day, focusing on the basics and its long-term development. This is a practical and contextualized study of the importance of the automotive technological changes that have evolved from both engineering improvements and cultural changes. Topics include the development of vehicle layout and design, the needs and behaviors of drivers, producers, non-users, and other stakeholders, and the ever-changing computerized control of its systems and other emerging technologies. Emphasis will be placed upon the systematic overview of the mechanization and electrification of the automobile, not only as machines, but as a testimony of their important role in the way we live today. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 340

Analyzing Vehicle Electrical/Electronic Systems

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Electrical and Electronic Systems of the Modern Automobile. This is a practical study of computerized vehicle controls and diagnostic strategies as it pertains to the function, operation, and vehicle on-board diagnostic and communication systems of the engine, powertrain, brakes, suspension, safety, convenience, and emission control systems. Topics include emerging technologies, such as modern instrumentation, navigation, and telematics, and the use of vehicle network configuration systems used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including programmed microprocessors, microcontrollers, and computer-language protocol. Current Industry-approved diagnostic, troubleshooting, and reprogramming techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills

that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 350

Principles of Automotive Service Management

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, MGMT 146 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical study of the management of an automotive and/or transportation-related business. This is a practical and contextualized study of the importance of business practices of the automotive industry that have evolved from dealerships, franchises, and independently-owned service operations. Topics include an understanding of automotive business regulations in the areas of competition, labor laws, securities regulation, consumer protection, and environmental laws. Emphasis will be placed upon an overview of basic business structure, ownership, and various facilities, as well as service operations & management, financial & marketing issues, and customer/employee relations. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 360

Analyzing Vehicle Fuels, Lubricants and Combustion

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Fuels, Lubricants, and Combustion of the Modern Automobile. This is a realistic study of the physical and chemical properties of fuels, lubricants, and combustion, including diagnostic strategies as it pertains to the function, operation, and every-day use of the systems and sub-systems of the automotive internal combustion engine and related powertrain components. Topics include emerging technologies, such as modern fuel

and lubricant requirements and how they affect combustion, emissions, and maintenance schedules used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including failure analysis. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 370

Standard Accounting Systems of the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, ACCT 101 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of accounting fundamentals and business management principles, and the adaptation of them to factory-to-store and day-to-day operations. This is a practical study of the theory, principles, and practice of the preparation and interpretation of accounting statements and business management reports. Topics include an overview of computerized accounting information systems, and practices in business management techniques, such as the importance of strong financial and management control, financial statements and statement analysis. Emphasis will be placed upon the concepts of using accounting fundamental principles, cash & contracts, short-term and long-term liabilities and assets, and stockholders' equity of reporting documents, which are essential to a successful automotive business operation. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 400

Analyzing Stability, Dynamics, and NVH

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Stability, Dynamics, and Noise-Vibration-Harshness (NVH) of the Modern Automobile. This is a practical study of the systems that provide vehicle operation safety, including diagnostic strategies as it pertains to the function, operation, and every-day use of the automotive tires, brakes, steering, and suspension systems. Topics include emerging technologies, such as modern antilock brakes, traction control, electronic stability assist, electronic power steering, active suspension, and tire construction and pressure monitoring systems used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing NVH. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 410

Digital Marketing for the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120, MRKT 170 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of the various internet and social media marketing strategies, including category-based guidelines impacting the operations of the automotive wholesale and retail business. This is a practical study of the policies and practices of digital marketing, and the necessary tools, templates, and checklists needed to develop a strategic and successful marketing campaign. Topics include in-sourcing and out-sourcing, responsive and adaptive website technologies, developing content, and policies and processes. Emphasis will be placed upon the use of on-line and

off-line media to increase customer satisfaction, including the preparation of business management and marketing reports. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 420

Analyzing Dynamic Functions of Vehicle Drivetrain Systems

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Electro-Mechanical and Hydraulic Functions of Transmission and Drivetrain Systems of the Modern Automobile. This is a practical study of the systems that provide vehicle mobility, including diagnostic strategies as it pertains to the function, operation, and everyday use of the automotive transmission, differential, and drive axle systems. Topics include emerging technologies, such as modern dual-clutch transmissions, continuously-variable transmissions, real-time gear shifting mechanisms and controls, torque convertor and convertor clutch designs, torque-management strategies, and innovative designs of gears, bearings, seals, and friction materials used by late-model automotive manufacturers. Emphasis will be placed upon the design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing Noise-Vibration-Harshness (NVH). Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 430

Finance & Insurance Regulations for the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of the numerous federal, state, and local agencies and their laws and regulations pertaining to the operation of an automotive wholesale and retail business. This is a practical study of a broad scope of regulatory agencies and regulations such as Department of Motor Vehicles, Internal Revenue Service, Franchise Tax Board, OSHA, EPA, AQMD, NHTSA, Federal Trade Commission, Fair Labor Standards, Truth in Advertising, Truth in Lending, Consumer Leasing Act, Equal Credit Opportunity Act, Fair Credit Reporting Act, and other related agencies and regulations. Topics include an in-depth study of automotive business finance, insurance, and new and certified used vehicle departments within an organization. Emphasis will be placed upon the services offered in these departments and their potential of generating profits and improving customer satisfaction. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 440

Analyzing Vehicle Safety, Comfort, and Security Systems

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 160, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of Vehicle Occupant Protection, Comfort, and Security Systems of the Modern Automobile. This is a practical study of the systems that provide integrated vehicle and driving protection against hazardous and inadvertent situations, as well as occupant amenities, including diagnostic strategies as it pertains to the function, operation, and everyday use of active/passive safety, comfort, and convenience systems. Topics include emerging technologies, such as modern airbag systems, accident avoidance and pre-crash/post-crash mitigation of injuries, vehicle-to-vehicle (V2V) infrastructure technology, and innovative driver assistance, infotainment, and occupant contentment and security systems used by late-model automotive manufacturers. Emphasis will be placed upon the

design of system parts, components, subsystems, and their operational characteristics, including techniques in reducing vehicle crashes and improving occupant/pedestrian protection. Current Industry-approved diagnostic and troubleshooting techniques and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle After-Sales Field Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 450

Variable & Fixed Operations of the Automotive Industry

Prerequisite: AUTO 300, AUTO 310, AUTO 320, ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, PHY 120 (all with a grade of "C" or better)

Advisory: ENGL 325

This course provides the Automotive Technology student with a detailed practical application of successful automotive business models of new and used vehicle operations, as well as the operations of service and parts. Topics include an in-depth study of facilities and shop utilization, scheduling of work, sales promotions, using advertising media, inventory control, repair order generation and control, selecting and motivating employees, and directing sales, parts and service staff. Emphasis will be placed upon maximizing and balancing inventory turnaround, wholesale practices, trade-in appraising, vehicle reconditioning, the role that auctions play, the important relationship between the parts and service departments, technician productivity and efficiency, wholesale and retail parts sales, stock and non-stock parts inventory and ordering practices, and part phase-in/phase-out criteria. Current Automotive Industry practices and relevant case studies will be discussed and demonstrated throughout the course. The overall goal of this course is for the student to apply and demonstrate knowledge and skills that will enable them to advance their employment in the Vehicle Sales and Service Fixed Operations Management spectrum.

3 Units

54 Lecture hours

AUTO 499

Directed Study in Automotive Technology

Prerequisite: Enrollment requires an AS Degree in Automotive Technology or similar field, and special approval from the program advisor; AUTO 440; AUTO 450

Advisory: ENGL 201 or ENGL 201H, MATH 130 or MATH 130H, or MATH 160, PHY 120 (all with a grade of "C" or better)

The course provides an opportunity for the Automotive Technology student to expand their studies in the Bachelor of Science Degree beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contact the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students are required to take 4 units of Directed Study within a discipline to graduate with a Bachelor of Science degree in Automotive Technology.

4 Units

72 Lecture 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 are those students pursuing a liberal arts education who are interested in furthering their own knowledge of human biology.

3 Units

54 Lecture hours

BIOL 105L

Human Biology Laboratory

Prerequisite/Corequisite: BIOL 105

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This laboratory course is intended for non-Biology majors as an accompaniment to the lecture course (BIOL 105). The course will provide students with hands-on laboratory experiences to demonstrate and enhance concepts and principles essential to an understanding of the functions of the human body.

1 Unit

54 Lab 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 (C-ID BIOL 135S, BIOL 190)
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. This course will cover principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell repro-

duction and its controls, molecular genetics, classical/Mendelian genetics, cell metabolism including photosynthesis and respiration, and cellular communication. Additional areas of focus include evolution and ecology. The laboratory portion of the course applies the processes of scientific inquiry and experimental design to the study of biological concepts focusing on observations, experimentation, record keeping, data collection and analysis, and presentation of outcomes. The course sequence also provides excellent preparation for those students intending to pursue post-graduate studies in the medical sciences.

5 Units

54 Lecture hours

108 Lab hours

BIOL 201 (C-ID BIOL 135S)**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 unicellular and multicellular life on earth, focusing on the relationships between structure and function, as well as evolutionary adaptations to their environments. Topics deal with classification, development, evolutionary relationships and ecological functions of living organisms inclusive of prokaryotes, fungi, protists, plants and animals. Laboratories will emphasize life forms, experimentation and dissections. Field trips will be used to examine organisms in their natural settings.

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 and introduces them to the basic concepts of biochemistry, molecular biology and molecular genetics; including protein structure and function, DNA structure and replication, transcription, RNA processing, translation, and recombinant DNA technology. Students will also be introduced to the science of biotechnology by providing both the theory and hands-on experience with laboratory protocols that include

the isolation, purification, and cloning of a gene; including the use of restriction enzymes, electrophoresis, library construction, blotting and hybridization and sequencing. Polymerase chain reaction (PCR) will be explained in detail, particularly how it has revolutionized research in molecular biology, medicine, forensics, systematics and evolutionary biology.

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; 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 continuance 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 health 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 299A

Directed Study in Biology

Prerequisite: BIOL 200

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in Biology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

BIOL 299B

Directed Study in Health Science

Biology

Prerequisite: BIOL 222 or BIOL 226

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in Health Science Biology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

BIOL 299C

Directed Study in Environmental Technology

Prerequisite: BIOL 120

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in Environmental Technology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

BUSINESS LAW

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

CARPENTRY

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

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 Carpentry 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

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

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 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

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 terminology, optical principles and operating procedures for the transit laser levels. The conventional methods for measuring angles, using degrees, minutes and seconds on veneer scales will be included in the transit portion of this class. Students will set up levels, determine benchmarks, take and record elevation readings.

2 Units

30 Lecture hours

10 Lab hours

CARP 040E

Foundations and Flatwork

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

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

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 offs. 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**

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 attics 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 devices 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**Basic Wall 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. 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

CARP 040R 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 covers how moldings and trims are utilized to finish exterior and interior construction design fea-

tures. 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 the installation process from constructing storefront openings thru placement of glass components into the commercial store front metal framing. An emphasis will be placed on print interpretation, window and door schedules, symbols and material recognition. Key discussions will draw attention to the typical problems, causes and solutions frequently encountered during the glazing assembly and installation process. This training will utilize glazing tools and techniques, applicable building/fire codes, layout accuracy and address proper fit and alignment.

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 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 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 procedures for design layout, cabinet installation and attaching countertops. An emphasis will be placed on print interpretation, job planning, scribing techniques and proper installation sequence. Students will use methods and specific procedures to install typical upper and lower cabinetry units and countertops.

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 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 050D

Basic Stairs

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 050E

Bridge Construction

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 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 layout techniques and building procedures for commercial structures using the tilt up panel construction method. Various wall types, position and sequence for raising panels will be discussed. Students will be able to explain the importance of layout methods in squaring panel formwork. A focus will be placed on identifying specific types of openings and the location of finish floor and roof lines on prints.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050G

Beam and Deck Forming

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 use of various woods and patented forming systems for construction of concrete beams and decks. Students will identify formwork types and installation techniques including calculating materials and setting beam and deck forms. 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 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 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 050I

Abutments

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 formwork construction skills for the abutment support structure used in most bridge and heavy highway projects. Students will identify abutment anatomy and will be instructed on footing layout, form detailing and construction techniques used in the industry. Terminology, components, form materials, building code requirements and sequence of construction will be presented. Students will work collectively to complete an abutment formwork project including keyway, panel, head wall and wing wall construction.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050J

Exterior Finish Details

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 terminology, design considerations and construction techniques for various types of exterior finish detail installations. 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 constructions 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 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 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 designs. 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 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 advanced commercial wall framing theory and construction techniques with structural hardware and shear panel installation. Students will interpret floor plans for job planning 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 050M

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 providing the structural components and building techniques associated with heavy timber construction

and panelized roof systems. The advantages and types of manufactured wood used, and their load carrying strength, span and spacing will be discussed. A distinction between standard post and beam, and heavy timber construction will be emphasized. Students will interpret floor plan, section views and drawing elevations for job planning, and to layout and construct a heavy timber post and beam supported panelized roof.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 050R

Intermediate 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 enhances basic wall framing theory, and wall construction techniques are applied at increased skill levels. A review of basic wall framing and floor plans used for job planning, design recognition, and materials lists is included. Students will layout and detail wall plates for locating basic wall components and door openings. Instruction will include measuring skills, mathematical principles, wall assembly and installation procedures, and detail how structural connections are made.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 050S

Intermediate Stairs

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 uses floor plans and print elevations at an intermediate level to enhance development of basic stair construction skills. Students will interpret prints to complete job planning, project layout, and material cut list for "L" shaped stair designs. Stair calculations will used to determine the number of stairs, landing height, stair thread and riser dimensions for the assigned project.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 050T

Drywall 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 will focus on the needed commercial and residential skills to properly handle and install drywall used in specialized applications including fire resistance, sound control, and for life safety. Layout, cutting, attachment procedures and productivity techniques will be discussed and practiced under jobsite conditions. Wall framing and drywall finishing methods will be incorporated into the hands-on activity.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050U **Interior Evaluations**

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 covers the techniques and skills used in construction of interior spaces. Print elevation views and details will be utilized for job planning, design recognition, and to determine materials. Students will layout and detail interior walls, surfaces for arches, soffits, and trim installation. Instruction will include a review of transit and builder levels, measuring skills, and cutting techniques for inside/outside corners and radius cuts.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 050V **Welding Fabrication**

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 as an introduction to layout, and basic welding and fabrication. The students will be introduced to the basic skills of measuring, equipment set-up and cutting, shaping, grinding, welding, filing, heating and bending of metal parts. Training will include fundamental arc welding techniques to fabricate project components.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 060A **Cabinet, Millwork 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 carpentry 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 060B **Plastic Laminates**

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 corners, 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 proper selection, safe use and maintenance of both hand and power tools. Students will distinguish conditions when uses of hand and power tools are an appropriate alternative to stationary saws and equipment. Discussions will enable students to identify key tool features, accessories and tasks that can be performed using a variety of methods and techniques. Practical exercises will focus on various saw types, hand planes and hand held drills.

1.5 Units
20 Lecture hours
20 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 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 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 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 providing the characteristics and construction suitability of various types of wood, woodworking materials, and hardware typically used in the cabinet making industry. Instruction on cabinet making design and wood selection will be emphasized. Working with a variety of wood samples, students will develop the ability to recognize the natural qualities associated with a particular wood species. Practical exercises will include handling selected wood species and experience working with a variety of hardware.

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 industrywide 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 070F

Intermediate System Scaffold

Prerequisite: State Indentured Scaffold 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 will introduce the skills required to construct elevated platforms that span a large area. Students will use the techniques presented to erect multiple connected and non-connected scaffold bays.

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 070H

Advanced System Scaffold

Prerequisite: State Indentured Scaffold 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 will provide the student with the ability to adapt the scaffold configuration to follow the contour of a building's architectural features and height limitations. Students will erect a frame scaffold to conform to angles, slopes, obstacles and obstructions of a wall and/or ceiling.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 070I

Advanced Suspended Scaffold

Prerequisite: State Indentured Scaffold 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 will cover the advanced techniques and procedures required when constructing suspended scaffolds supported by structural members. Students will identify the suitable structural components for this application type. The methods used to determine load bearing capability of structural elements will be presented. The hazards and precautionary techniques associated with safely building this type of suspended platform will be the focus of this training.

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

CARP 070K

Scaffold Reshoring

Prerequisite: State Indentured Scaffold 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 will cover the basic techniques and procedures associated with frame, system, and tube and clamp scaffold components used in industrial settings. The regulations, terminology and components used in these systems types will be discussed in depth. Construction practices and safety considerations will include plant operating processes, equipment, hazardous material awareness, and emergency response. Students will identify and erect equipment using basic configurations suitable for jobsites where industrial scaffolds are commonly used during maintenance cycles.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 070L

Specialty Scaffold Applications

Prerequisite: State Indentured Scaffold 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 will include specialty scaffold applications focusing on ramps, chutes and mobile towers suitable for light and heavy duty use. Students will identify the characteristics of commercial and industrial scaffold construction. The selected projects for this class will introduce the techniques and procedures used for access/egress, debris handling, and maintenance scaffolds.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 070N

Scaffold Erector Qualification

Prerequisite: State Indentured Scaffold 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 be compliant with applicable regulations, and provide workers with industry recognized general scaffold building credentials. A fundamental approach and careful explanation of scaffold built applications will include safety and terminology; elevated platform intended use; span and loading criteria; access and egress; stability, struc-

tural connections and inspections.

Detailed project drawing review will provide practical experience in locating dimensions, determining layout and scaffold material requirements. An emphasis on erection/dismantling sequence will foster the development of job planning, preparation skills and applied math. The importance of a safety program including, site specific conditions, communication, and fall protection will be addressed during scaffold construction exercises.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 070P

Industrial Scaffolding

Prerequisite: State Indentured Scaffold 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 will cover the basic techniques and procedures associated with frame, system, and tube and clamp scaffold components used in industrial settings. Construction practices and safety considerations will be a major focus of the class including general plant operating conditions and hazards. Successful participants will be issued a United Brotherhood of Carpenters (UBC) Scaffold Qualification Card- Standard 40 Hour Training.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 080A

Basic Wood Flooring 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 provides an introduction to wood flooring materials and installation techniques. Students will study the characteristics of various hard and soft wood species typically chosen for grade, durability, and color. The inspection of existing subfloors will be discussed, and procedures for installing new subfloors will be included. The proper preparation and installation sequence of wood strips and plank flooring will be the main focus of the training.

1.5 Units

20 Lecture hours

20 Lab hours

CARP 080B**Borders**

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 covers the fabrication and production skills used to create borders for wood flooring installations. Students will interpret floor plans to determine details for border designs and estimate materials. Instruction will include design considerations, geometric layout procedures, and techniques for maintaining border symmetry.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 080C**Parquet Flooring**

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 covers the methods and techniques for installing parquet flooring. Students will study the characteristics of various parquet flooring patterns. Students will evaluate the suitability of hard and soft woods for use in parquet flooring patterns. The inspection, patching and leveling of existing subfloors will be discussed and practiced. The proper preparation and installation sequence of parquet wood flooring will be the main focus of the training.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 080D**Advanced Patterns**

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 covers the fabrication and installation skills used in the production of custom wood flooring design. Students will study examples of artistic wood floor elements including geometric patterns, color variations, and inclusion of materials other wood. Students will create a design pattern for a custom wood floor medallion, and use the techniques and skills presented to complete the medallion project.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 080E**Diagonal and Herringbone Patterns**

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 covers the fabrication and installation skills used in the production of diagonal and herringbone flooring patterns. Students will interpret floor plans to detail pattern assemblies and estimate materials. Instruction will include design considerations, geometric layout procedures, and techniques for maintaining pattern symmetry.

1.5 Units
20 Lecture hours
20 Lab hours

CARP 080F**Crew Lead Training**

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 covers the supervisory and crew leadership skills required for professional development in the wood flooring industry. Typical work processes, communication methods, customer service considerations, motivational concepts and problem solving techniques, that when employed, produce efficient and effective management of wood floor installation. Various project scenarios will be used to conduct classroom exercises.

2 Units
40 Lecture hours

CARP 290**Work Experience in Carpenters Apprenticeship**

Prerequisite: State Indentured Carpenter Union Apprenticeship

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course provides students the opportunity to work in the Carpenters apprenticeship program for the purpose of developing specific skills to meet the goals and objectives of the Carpenters Joint Apprenticeship and Training Committee (J.A.T.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all Work Experience course offerings. Only one Work Experience course may be taken per semester.

1 - 4 Units
3 Lecture hours
75 - 225 Other hours

CHEMISTRY**Division of Mathematics & Sciences****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; READ 023 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
54 Lab 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 chem-

istry with examples from all areas of chemistry.

5 Units

54 Lecture hours

54 Lab hours

18 Other hours

CHEM 130 (C-ID CHEM 110, CHEM 120S)

General Chemistry

Prerequisite: CHEM 120 with a grade of "C" or better

Advisory: ENGL 101; READ 023 or appropriate assessment; MATH 175 or appropriate assessment

Transfers to: UC, CSU

CHEM 130 is the first semester of a two semester sequence designed for students intending to major in science and engineering. The lecture course covers classical/modern chemistry, with applications, in stoichiometry and classical atomic theory of chemistry, periodic properties, gas laws, modern quantum theory of atomic and molecular structure and periodic properties, thermochemistry, liquids and solids, 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 (C-ID CHEM 120S)

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 and nuclear chemistry are presented. Various analytical techniques used in modern chemistry are introduced. Descriptive chemistry of representative metallic and nonmetallic elements is included. The Laboratory introduces experimental chemistry with examples from areas of kinetics, equilibrium, acid/base and buffer preparation, differential titration, electrochemistry, and qualitative analysis. Modern instrumental methods are used in some exercises.

5 Units

54 Lecture hours

108 Lab hours

CHEM 230 (C-ID CHEM 150, CHEM 160S)

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. Several topics will be explored in depth, including molecular structure and hybridization, applications of acid/base theory to organic compounds, stereochemistry, alkanes, alkenes, alkynes, dienes, substitution and elimination reactions, and spectroscopic methods of analysis (e.g. IR, UV/VIS, NMR). Particular emphasis will be placed on thermodynamic and kinetic aspects of reactions and detailed examination of reaction mechanisms. Laboratory exercises are designed to provide students with a solid foundation in the essential techniques of organic chemistry, including the determination of melting points, thin-layer and column chromatography, extraction, distillation, and spectroscopic analysis of products. This course is appropriate for students majoring in chemistry, biological sciences, and chemical engineering, and satisfies the admissions requirements for medical, dental, veterinary, and other health-related graduate programs.

5 Units

54 Lecture hours

108 Lab hours

CHEM 231 (C-ID CHEM 160S)

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. Bioorganic 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 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 162 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 front, postwar struggles for economic and social justice, radicalism, and concludes with an examination into the dramatic growth of the Mexican/Mexican-American population in the U.S. 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 148

La Chicana: The Contemporary Mexican-American Female (Same as SOC 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 genesis 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

CHST 150

Chicano Politics (Same as POLS 150)

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or 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

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 DS3.

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 life styles and family structures, alternatives to biological parenting and understanding high risk families.

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 (credit limit *), CSU*

(*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 DS1 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, creative and intellectual development for all children. This course includes a review of the historical roots or early childhood programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. This course meets the Department of Social Services Classification Indicator DS3 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 DS3 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 DS 3 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 environments. Applies towards the State of California Title 22 Department of Social Services Classification Indicator DS 3 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 DS3 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 DS3 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 the Department of Social Services Classification Indicator DS3 and applies towards the State of California Department of Education Title V Child Development Permit.

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 211**Infant and Toddler Development (Formerly ECE 211, ECE 011)**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course is a study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. The focus of this course applies theoretical frameworks to interpret behavior and interactions between heredity and environment. It also emphasizes the role of family and relationships in development. This course meets the Department of Social Services 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**Care and Education for Infants and Toddlers**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course applies current theory and research to the care and education of infants and toddlers in group settings. It examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. The 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 224 (C-ID ECE 230)**Diversity Issues During Early Childhood, School Age and Adolescence**

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, gender, social class, sexual preference, language and abilities. Focus will also be placed on developmental 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 DS 3 and applies towards the State of California Department of Education Title V Child Development Permits.

3 Units

54 Lecture hours

CD 226**Introduction to Children with Special Needs (Formerly ECE 226, ECE 026)**

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. It includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. 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 (Formerly ECE 228, ECE 028A)**

Prerequisite: CD 106, CD 110, CD 111, CD 114 and CD 208 ; Verification of immunizations against influenza, pertussis, and measles and freedom from tuberculosis are necessary to fulfill the lab requirement of this course.
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.

3 Units

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. This course is appropriate for students who are interested in working with children in group care and education programs. 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 Permit.

3 Units

54 Lecture hours

CD 232
Curriculum and Strategies for Children with Special Needs

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. It focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. Topics included are the role of the teacher as a professional working with families, collaboration with interdisciplinary teams, and cultural competence. The course meets the Department of Social Services Classification Indicator DS3 and applies towards the State of California Department of Education Title V Child Development Permits.

3 Units

54 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. Various facets of Chinese history, culture, and civilization will also be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory focuses on vocabulary, grammar, and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. 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

CHIN 102
Chinese II

Prerequisite: Completion of CHIN 101 with a grade of "C" or better, or completion of 2 years high school Chinese with a grade of "C" or better

Advisory: READ 023 or appropriate assessment; ENGL 035 or ENLA 100 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. Various facets of Chinese history, culture, and civilization will also be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory focuses on vocabulary, grammar and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. 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

CIVIL DESIGN

Division of Career & Technical Education

CIV 140
Civil Engineering Fundamentals

Advisory: ENGT 101 or two years of high school drafting; ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 050 or MATH 053 or appropriate assessment

Transfers to: CSU

This course is for all students interested in the career fields of Civil Design Drafting and Civil Engineering. The course is a study of the various Civil Engineering sub-disciplines and the common tasks required of Civil Engineers and their support staff. Students will complete basic level engineering calculations and use hand drafting techniques or Computer Aided Drafting (CADD) software to complete projects relating to subdivision development, roadway planning and layout, structural design and detailing, site grading,

project scheduling, wastewater management, and similar engineering tasks.

3 Units

36 Lecture hours

54 Lab hours

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 and care of surveying equipment. The fundamentals of global positioning systems (GPS) and their applications in land surveying will also be introduced. This course will also be beneficial for 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 210

Concrete Technology & Testing

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 050, MATH 050D or MATH 053 or appropriate assessment; CIV 140 or industry experience

Transfers to: CSU

This course is an introduction into the use of concrete as a common

construction material. The course is intended for individuals who intend to pursue careers in construction and students who wish to progress into Construction Management as a Civil Engineering sub-discipline. The material includes focus on the components of concrete, physical properties, mix design, quality control, and placing & testing of concrete. The course includes classroom lectures and assignments, as well as lab projects with direct experience in working with and testing concrete.

2 Units
18 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 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

CIV 299

Directed Study in Civil Design Technology

Prerequisite: 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

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Civil Design Technology beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an

exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units
54 to 162 Lab hours

COMPUTER INFORMATION TECHNOLOGY

Division of Business

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 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 109

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 111

Introduction to Programming

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 is designed to develop the problem-solving abilities of the student who intends to continue in the computer field. Various techniques used will include hierarchy diagrams, data flow diagrams, flow-charting, data diagrams, and pseudo code. This course will also include information on Microsoft Visual Studio.NET's integrated development environment (IDE).

3 Units

54 Lecture hours

CIT 125

Introduction to C++ Programming

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 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 most popular language: C++. 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

63 Lecture hours

27 Lab hours

CIT 126

Advanced C++ Programming

Prerequisite: CIT 125

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 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 an object-oriented programming

language. This course will review the fundamentals of software development and cover the advanced programming skills using the C++ language. Advanced topics include: classes and data abstraction, operator overloading, inheritance, virtual function and polymorphism, stream I/O and Exception Handling.

4 Units

63 Lecture hours

27 Lab hours

CIT 130

Windows Configuration

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 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

36 Lecture hours

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

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: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 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

63 Lecture hours

27 Lab hours

CIT 136

Advanced Java Programming

Prerequisite: CIT 135

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MATH 030 or MATH 030D or MATH 033 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 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 multi-threading.

4 Units

63 Lecture hours

27 Lab hours

CIT 152

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 fundamen-

tal 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 155

Introduction to 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: CSU

This course offers 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 160

Introduction to Operating Systems

Advisory: CIT 060

Transfers to: CSU

This course provides an overview of the 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 180

PC Maintenance-A+ Certification

Prerequisite: CIT 101

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This course will prepare students with the necessary competencies of an entry-level IT professional with hands-on experience and theory in computer technology, networking and security. The student will also learn communication skills and professionalism now required of all entry-level IT professionals. This

course is intended for IT students wishing to prepare for the CompTIA A+ Essentials and CompTIA A+ Practical Application examinations, the two exams required to achieve CompTIA A+ certified status.

4 Units

54 Lecture hours

54 Lab 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; CIT 180

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 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

54 Lecture 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 Administrator) certification. Students will learn the architecture, components and operations of 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 Administrator) 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. 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

COOPERATIVE WORK EXPERIENCE- GENERAL

Division of Career & Technical Education

CWEG 290

Cooperative Work Experience Education - General

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 an actual work environment under the supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a professional environment and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment.

Student Paid Internship:

1 unit/75 hours;

2 units/150 hours;

3 units/225 hours

1 to 3 Units

3 Lecture hours

75 to 225 Other hours

CORRECTIONS

Division of Public Safety

CORR 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

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; READ 023 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; READ 023 or appropriate assessment

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 supervisory 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; READ 023 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; READ 023 or appropriate assessment; AJ 101

Transfers to: CSU

This course is designed to provide California Peace Officers or other interested students with instruction into the correctional process of supervision of inmates who have been convicted of sex offenses. Topics include human sexuality and dysfunctions, theories of sexual offense, offender typologies and supervision techniques. The curriculum follows 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 100 or appropriate assessment; READ 023 or appropriate assessment; AJ 101
Transfers to: CSU

This course is designed to provide California Peace Officers or other interested students with an in-depth understanding of public safety communication in the Correctional field. Topics include techniques of effectively communicating facts of information and ideas in a clear and logical manner for public safety reports. Students will gain practical experience in interviewing, note taking, report writing, and testifying.

3 Units

54 Lecture hours

COUNSELING

Division of Counseling & Student Development

COUN 100

Introduction to College Survival (Formerly COUNS 039)

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: CSU

This course is intended for special populations and programs such as student athletes and the Summer Scholars Transfer Institute. This course will help students develop knowledge and skills to successfully move through the community college system and transition and acculturate into a four-year institution. Students will learn and apply information in the following areas: higher education terminology, community college transfer requirements, as well as skills necessary for completing a bachelor's degree or higher. Students will also learn about academic, social and cultural integration for retention in higher education through knowledge of college requirements, policies and procedures, campus support services, and self-management.

1.5 Units

27 Lecture hours

COUN 101 (same as EDEV 101)

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.

3 Units

54 Lecture hours

COUN 101A

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 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.

tion 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 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

COUN 299

Directed Study in Counseling

Transfers to: CSU

The course provides an opportunity for the student to expand their studies in Counseling beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab 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 phrases provide physical, mental and creative exploration for beginner students, those preparing for transfer, and those seeking careers in dance. This course may be repeated three times for credit.

1 Unit

54 Lab hours

DANC 152

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. Produc-

tions will be presented for public performance on and off campus.

3 Units

18 Lecture hours

108 Lab hours

DANC 153

Ballet I

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This is an introductory course for those students who seek technical skill in classical ballet. The course will focus on body alignment, traditional steps and combinations, musicality, ballet terminology, and the development of strength and flexibility. Students will also gain knowledge of contemporary influences on ballet. This course may be repeated three times for credit.

1 Unit

54 Lab hours

DANC 154

Jazz Dance I

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

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 157

Hip-Hop Dance

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: UC, CSU

Students will learn various forms of beginning hip-hop dance, including hip-hop funk, emphasizing body isolations, syncopations, and rhythms. The class will explore the use of space, energy, rhythm, movement dynamics, and improvisation while emphasizing body control, alignment, balance, and use of weight changes. A basic history of hip-hop culture and music will be discussed. The course fulfills an elective for the AA in Dance and appeals to dancers

seeking careers in dance, students looking to expand their dance skills, and those wanting a dance aerobic work-out.

1 Unit
54 Lab hours

DANC 159

Choreography I

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; DANC 151
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 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: 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

DANC 168

Latin Social Dance

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment
Transfers to: UC, CSU

Students will learn various types of beginning club 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 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 179

Dance History

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

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 Lab 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: UC, 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

DANC 254

Jazz Dance II

Prerequisite: DANC 154

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

Jazz Dance II is an intermediate level course designed for students who wish to further develop the technical and performance skills acquired in Jazz Dance I. Additionally, the historical and cultural aspects of Jazz Dance will be emphasized through lectures, readings and observations of a professional dance concert. Students will also have the opportunity to perform in an informal showing or concert setting. Students may take any combination of four Jazz courses total.

1 Unit

54 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; READ 023 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 101H (C-ID ECON 202)

Principles of Macroeconomics 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 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 (C-ID ECON 201)

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 (C-ID ECON 201)

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

EDUCATION

Division of Behavioral & Social Sciences

ED 090

Tutorial 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

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. 45 hours of structured fieldwork is required.

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 Unit

27 Lab 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
Advisory: EDEV 020

This course is designed specifically for the Developmentally Delayed Learner (DDL) and students with special learning needs to prepare them for employment. Emphasis is on developing skills in the areas of goal setting, career assessment inventory, career awareness, career exploration,

choosing a career, career preparation, socialization, utilizing community resources and appropriate grooming and hygiene. This is a non-degree credit course and is offered on a pass/no pass basis.

3 Units
54 Lecture hours

EDEV 027L

Strategies for Career Success Lab

Prerequisite/Corequisite: EDEV 027
Advisory: EDEV 020

This course is designed specifically for the Developmentally Delayed Learner (DDL) population and students with special learning needs. The laboratory is a work experience program with minimum supervision. Students are placed in on- and off-campus work sites for 4 hours per week. They will receive on-the-job training with close supervision at the various locations - 4 weeks at each job site. This is a non-degree credit course and is offered on a pass/no pass basis.

1 Unit
54 Lab hours

EDEV 029

Independent Living Skills

This course is designed specifically for the Developmentally Delayed Learner (DDL) population and students with special learning needs. Essential independent living skills are emphasized. Major topics focus on the how to live and work issues from maintaining a healthy body and a safe home to finding and keeping a job. Desired outcome is for the student to develop the necessary skills to gain greater independence within outside the family structure.

3 Units
54 Lecture hours

EDEV 030

English Skills

Corequisite: EDEV 030W

This course is designed for students with learning disabilities who need to improve basic writing skills. A process approach to writing is integrated with reading assignments to provide a variety of writing experiences. Students practice strategies to develop thinking, language, and writing skills. This course is the beginning level of composition; it prepares students for success in ENGL 035 or ENGL 101. This is a non-degree credit course and is offered on a pass/no pass basis. Students are required to concurrently enroll in EDEV 030W.

3 Units
54 Lecture hours

EDEV 030W

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 Lab hours

EDEV 031

EDEV 101

College and Life Success (Same as COUN 101)

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 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; READ 023 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 powerline (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, transformers, regulators, fuses, meters, and applied mathematics to illustrate basic electricity relationships of components in 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 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 (cellular) telecommunications systems which will include an in-depth analysis of the design and installation of these systems. The course is intended for students interested in a career in the wireless telecommunications industry. Topics will include: mobile devices networks, antenna orientation, base station system, and the operation and support system associated with the wireless systems. Also presented are topics on environ-

mental 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; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This is the second class of a five class program that will further examine the theory behind present day wireless (cellular) telecommunications systems. This course is designed to provide students with information and skills associated with the wireless (cellular) telecommunications industry. The course is intended for students that are interested in a new career or are currently working in the wireless telecommunications industry. Topics will include: Wireless standards and protocols and the critical issues of compatibility, internetworking, and voice/data convergence, design and integration of WCDMA/UMTS, CDMA2000, and SCDMA into existing cellular/PCS networks. Also presented are topics on RF propagation, 3G and 4G networks, and the future of wireless telecommunications.

3 Units

45 Lecture hours

27 Lab hours

ELEC 100

D.C. and A.C. Fundamentals (Formerly ELEC 060)

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 introductory course in D.C. and A.C. electricity is for general audience and for those contemplating a career in the electrical industry. Course content includes basic theory, resistance, capacitance, inductance, simple D.C. and A.C. circuits, transformers, measuring instruments, batteries, motors and generators.

3 Units

45 Lecture hours

27 Lab hours

ELEC 101

D/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 Direct Current (D/C) electricity/electronics. Emphasis is on the theory of operation, physical properties and characteristics of DC electrical/electronic circuits and devices. Students will analyze circuits and solve problems utilizing basic network analysis methods. The course will instruct students on the arrangement of circuit diagrams, proper identification of circuit/device symbols, and use of wiring schematics. Laboratory work provides experience with the design and test of basic electrical circuits, use of meters, schematic diagrams, oscilloscopes, and common laboratory equipment. This course is for students that are contemplating a career in the electrical/electronics industry and is part of the preparation leading to an A. S. Degree or a Certificate in Electronics Technology.

4 Units

54 Lecture hours

54 Lab hours

ELEC 102

A/C Electronic Circuits and Devices

Prerequisite: MATH 030 or 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, BJT 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 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 ampli-

fiers, other discrete circuits and external circuitry. 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 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 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 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 240

Microprocessors and Microcomputing

Prerequisite: ELEC 211

Transfers to: CSU

This course will provide a fundamental knowledge of the general architecture of microcomputers. Emphasis is on the study of organization and structuring of the major hardware and software components of computers which includes, the CPU and some of the I/O devices used to interface the CPU to various peripheral devices. It considers the physical aspects of information transfer and control within a digital computer. Network architecture, communication protocol, as well as micro-programming instruction sets and assembly language programming are also emphasized. Laboratory exercises will focus on construct and deconstruct of a basic computer, along with test and troubleshooting of critical functions. 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 299

Directed Study in Electronics Technology

Prerequisite: 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

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Electronics Technology beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

ELECTRONICS/ ELECTRIC UTILITY TECHNOLOGY

**Division of Career &
Technical Education**

EUT 110

Electrical Utility Technology 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; ELEC 050

Transfers to: CSU

This is an introductory course that will examine the theory behind present day utility energy systems. This course provides an orientation in the power distribution and line construction industry. Basic electrical principles and safety on the job are emphasized. Topics include basic mathematical computations, including trigonometry fundamentals, electron theory and the fundamentals of magnetism. Students will combine electrical theory with laboratory and practical applications in the course of study. 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 pole and overhead line construction. Topics covered include state safety orders for line construction and maintenance, transmission and distribution systems and conductors and electrical systems faults. Students will also learn about short circuits, system protective concepts and how to identify control circuits from wiring diagrams. 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

EUT 120

Utility Pole Climbing Techniques

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 designed to provide instruction on climbing a utility pole safely using the latest OSHA fall resistant requirements. At the completion of this course, students will be able to safely ascend and descend a utility pole using gaffs and extension ladders. This course provides an orientation in the power distribution and line construction industry. Basic electrical principles and safety on the job are emphasized. This course is intended for students that are contemplating a career in the electrical utility industry.

4 Units

54 Lecture hours

54 Lab hours

EMERGENCY MEDICAL TECHNICIAN

Division of Public Safety

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 certify students as California State Emergency Medical Technicians and gain 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 request 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, extrication 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

(Formerly EMT 093.1)

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 for EMT students and other interested students to gain certification to obtain an Ambulance Driver Certificate in California. An Ambulance Driver Certificate can be obtained prior to completion of this course. Pre-trip inspection, driving skills and a driving test are parts of this course. Students will complete their certification through the California DMV. A physical may be required to meet California DMV requirements in regards to licensing.

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 Other hours

ing. The course is the study of basic circuit analysis techniques including Ohm's law, Kirchhoff's laws, mesh-current and node-voltage method, Thévenin 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

54 Lecture hours

ENGR 235

Engineering Mechanics: Statics

Prerequisite: PHY 211 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

54 Lecture hours

ENGR 245

Engineering Mechanics: Dynamics

Prerequisite: ENGR 235 with a grade of "C" or better

Transfers to: 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 in motion. Topics include kinematics of particles and rigid bodies; applications of Newton's Second Law; energy and momentum methods in the study of motions; translational, rotational, & general planar motion; and mechanical vibrations.

3 Units

54 Lecture hours

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 105

Architectural and Technical Freehand Sketching

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 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 122

Engineering Design Graphics

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: UC, CSU

This course is an introduction to graphics as used in engineering design and the systematic use of graphic 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

ENGINEERING

**Division of Mathematics
& Sciences**

ENGR 217

Electric Circuit Analysis

Corequisite: PHY 213 with a grade of "C" or better

Transfers to: UC, CSU

This course is for students who intend to pursue a major in engineer-

ENGINEERING TECHNOLOGY

**Division of Career &
Technical Education**

ENGT 101

Introduction to Technical Drawing & Graphics

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

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 ENGT 170, 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 paperspace, 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.

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, emphasizes CADD generated three dimensional graphics using wire frame, surface modeling, and parametric solids.

4 Units

54 Lecture hours

54 Lab hours

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 V8i
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

ENGT 290 **Cooperative Work Experience/Internship for Drafting 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 drafting 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 Other hours

ENGT 299 **Directed Study in Engineering Design Drafting**

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Engineering Design Drafting beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units
54 to 162 Lab hours

ENGLISH

Division of Communications & Languages

ENGL 030 **Introductory Composition for Developing Writers**

Corequisite: ENGL 030W
Advisory: READ 022 or appropriate assessment
 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: READ 022 or appropriate assessment*

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. An accompanying ENGL 035W Writing Workshop is required and offered on a pass/no pass basis. This class can also be taken in three 6-week modules. Students will have the opportunity to take one, two, or three modules for one unit of credit each. Module A will cover simple and compound sentences, simple punctuation, and language usage. Students will practice writing to instruct and inform. Module B will cover complex sentences, punctuation such as colons and semicolons, and use of persuasive language. Further practice will be given in the use of commas and capitalization. Module C will include paragraphs, short essays, punctuation review, and use of sequential and transitional language. Practice will be given in adapting information to different audiences. In addition to this material, modules A, B, and C will cover material detailed in the appendix to the course outline. To receive credit for ENGL 035 or ENGL 035 A, B, C, students must receive a score of 10 or higher on the common final. Workshop credit will be given upon completion of all three modules.

Students may enroll in all modules or individual modules and receive appropriate credit. English 035 A, B, C is offered on an open entry, open exit basis. 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 the ENGL 035W Writing Workshop, offered on a pass/no pass basis.)

3 Units**54 Lecture hours****ENGL 035A****Intermediate Composition for Developing Writers (Formerly ENGL 099W)***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. An accompanying ENGL 035W Writing Workshop is required and offered on a pass/no pass basis. This class can also be taken in three 6-week modules. Students will have the opportunity to take one, two, or three modules for one unit of credit each. Module A will cover simple and compound sentences, simple punctuation, and language usage. Students will practice writing to instruct and inform. Module B will cover complex sentences, punctuation such as colons and semicolons, and use of persuasive language. Further practice will be given in the use of commas and capitalization. Module C will include paragraphs, short essays, punctuation review, and use of sequential and transitional language. Practice will be given in adapting information to different audiences. In addition to this material, modules A, B, and C will cover material detailed in the appendix to the course outline. Workshop credit will be given upon completion of all three modules.

1 Unit**18 Lecture hours****ENGL 035B****Intermediate Composition for Developing Writers (Formerly ENGL 099)***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. An accompanying ENGL 035W Writing Workshop is required and offered on a pass/no pass basis. This class can also be taken in three 6-week modules. Students will have the opportunity to take one, two, or three modules for one unit of credit each. Module A will cover simple and compound sentences, simple punctuation, and language usage. Students will practice writing to instruct and inform. Module B will cover complex sentences, punctuation such as colons and semicolons, and use of persuasive language. Further practice will be given in the use of commas and capitalization. Module C will include paragraphs, short essays, punctuation review, and use of sequential and transitional language. Practice will be given in adapting information to different audiences. In addition to this material, modules A, B, and C will cover material detailed in the appendix to the course outline. Workshop credit will be given upon completion of all three modules.

1 Unit**18 Lecture hours****ENGL 035C****Intermediate Composition for Developing Writers (Formerly ENGL 099)***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. An accompanying ENGL 035W Writing Workshop is required and offered on a pass/no pass basis. This class can also be taken in three 6-week

modules. Students will have the opportunity to take one, two, or three modules for one unit of credit each. Module A will cover simple and compound sentences, simple punctuation, and language usage. Students will practice writing to instruct and inform. Module B will cover complex sentences, punctuation such as colons and semicolons, and use of persuasive language. Further practice will be given in the use of commas and capitalization. Module C will include paragraphs, short essays, punctuation review, and use of sequential and transitional language. Practice will be given in adapting information to different audiences. In addition to this material, modules A, B, and C will cover material detailed in the appendix to the course outline. Workshop credit will be given upon completion of all three modules.

1 Unit
18 Lecture hours

ENGL 035W
Writing Workshop
(Formerly ENGL 099W)

Corequisite: ENGL 035
Advisory: READ 022 or appropriate assessment

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 035. All ENGL 035 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 101 (C-ID ENGL 100)
College Composition and Research

Prerequisite: ENGL 035 with a grade of "Pass" or ENLA 100 with an "A" or "B" or appropriate assessment
Transfers to: UC, CSU

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.

3.5 Units
54 Lecture hours
27 Lab 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. The lab component of this course is designed to assist students in advancing and refining their writing and language skills and will augment their ability to exercise critical thought. Students will complete lab activities that further enhance their ability to compose logical, well-supported arguments that exhibit grammatical fluency and correct documentation form. Students will meet with composition instructors through individual conferences that address students' specific writing concerns.

3.5 Units
54 Lecture hours
27 Lab hours

ENGL 201H (C-ID ENGL 105)
Advanced Composition and Critical Thinking Honors

Prerequisite: Completion of ENGL 101 with a grade of at least a "C" or better
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 3.0 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 162 Lab hours

ENGL 325

Technical and Professional Writing

Prerequisite: ENGL 201 or ENGL 201H with a grade of "C" or better

This upper division General Education course is designed for students pursuing a Bachelors of Science degree in Automotive Technology and is open to all students who have successfully completed ENGL 201 or ENGL 201H. Students will develop expository writing skills on technical subjects relevant to automotive and transportation-related industries, business, science, government, and other similar fields. Written assignments will comprise short forms including technical description, proposals, manuals, and journal articles, as well as longer formal papers, feasibility studies, and technical reports. This course will help students develop principles of clear writing appropriate to Automotive Industry standards.

3 Units
54 Lecture 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

Advisory: NESL 018

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.

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 diction, 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 and 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

ENVIRONMENTAL TECHNOLOGY

Division of Mathematics & Sciences

ET 110
Hazardous Waste Generation/Reduction/Treatment

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 educate individuals working in or seeking employment in the hazardous waste management field with an overview of industrial processes and their generation of waste streams. The selected industries include: electroplating, metal finishing and printed circuit board production; oil refining and chemical production; steel production; general manufacturing; printing and graphic reproduction; agriculture; and consumer services.

3 Units

54 Lecture hours

ET 120
Introduction to Alternative Energy Technology (Same as AET 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: 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 that are contemplating a career in the alternative energy industry.

3 Units

45 Lecture hours

27 Lab hours

ET 121

Photovoltaic Systems Design and Installation (Same as AET 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 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)

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 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)

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 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)

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

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, 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

ET 130

Health Effects of Environmental Hazardous 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

54 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 and 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 remediation 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 US EPA 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 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: Appliances, Insulation, Designing/Remodeling, Electricity, Landscaping, Lighting, Space Heating and Cooling, Water Heating, Doors/Windows/Skylights, and Home Energy Audits.

3 Units

54 Lecture hours

ET 182

Industrial Energy Management and Auditing (Same as AET 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

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

54 Lab hours

ET 230

Safety and Emergency Response

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 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 HAZWOPER TRAINING under OSHA (1910.120) and confined space entry training under OSHA (1910.146).

4 Units

54 Lecture hours

54 Lab hours

ET 240

Solid 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 seek employment in the solid waste management field, with an overview of the solid waste industry and its components. Emphasis is placed on the various aspects of integrated waste management including: waste prevention, recycling, composting, incineration, landfilling, environmental sampling and monitoring, facility siting and permitting, and compliance with environmental, health and safety regulations.

4 Units

54 Lecture hours

54 Lab hours

ET 250

Fundamentals of Safety and Health I

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment, ET 230, or working 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 251**Fundamentals of Safety and Health II**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ET 230
Transfers to: CSU

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

54 Lab 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 practical aspects of operating and maintain-

ing 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 273**Stormwater Management, Treatment and Controls**

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 are seeking employment in the industrial stormwater management field, with the skills necessary to manage stormwater activities at industrial sites. Such management activities would include the ability to: write stormwater plans, implement structural and non-structural best management practices, evaluate and design stormwater treatment systems, conduct laboratory testing, understand how to collect stormwater samples, evaluate low impact development methods, and understand the regulatory and political framework of stormwater management. Emphasis will be placed on the following topics: stormwater chemistry, water treatment, student designed industrial treatment systems, auditing for compliance, monitoring of the industrial effluent, interpretation of laboratory results, and how to apply the data to achieve real reductions in effluent contaminated by industrial pollutants.

3 Units

54 Lecture hours

ET 274**Industrial Waste Water Treatment**

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 water management field, with the practical aspects of operating and maintaining industrial waste water treatment plants. Emphasis is placed on the following topics: role of the industrial waste water treatment operator, types of industrial waste streams, industrial waste water regulations, sources of wastes and methods for preventing and minimizing wastes at the source, and industrial waste monitoring. The plant operations and maintenance topics that will be highlighted include the following: operating and maintaining flow measure equipment, preliminary treatment processes, physical-chemical treatment processes, pressure and gravity filters, physical treatment processes, treatment of metal waste streams, and safety procedures.

3 Units

54 Lecture hours

ET 275

Water Treatment

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 water management field, with the practical aspects of operating and maintaining water treatment plants. Topics will include: responsibilities of the water treatment plant operator, sources of water, reservoir management and intake structures, coagulation and flocculation, sedimentation and filtration, disinfection and corrosion control, and taste and odor control. Day to day operating procedures will be highlighted in this course and will consist of the following topics: daily operating procedures, regulation of flows, chemical use and handling, records and reports, plant maintenance, safety and security, emergency procedures, handling complaints, and energy conservation.

3 Units

54 Lecture hours

ET 276

Water Distribution

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 water management system, with the practical aspects of operating and maintaining water distribution systems. Topics include: role and duties of

water distribution system operators, procedures for operating and maintaining clear wells and storage tanks, characteristics of distribution system facilities, operating and maintaining distribution systems, maintaining water quality, disinfecting water systems, and techniques for recognizing hazards and developing safe procedures and programs. Operators also learn to analyze and solve problems associated with operating a distribution system.

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 employment. 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: 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 162 Lab 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

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

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, confine 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 Fire fighter I Accredited Academy" (ARA or Accredited Regional Academy by the California State Fire Marshal). Students who complete this course also receive California certification in Vehicle Extrication, Fire Control I & II, Hazardous Materials First Responder Operational, Confine Space Awareness, Rescue Systems I, S-110, S-130, S-190, Rapid Intervention Crew Tactics and ICS -200. This course requires completion of a medical physical

examination and includes arduous physical activity.

18 Units
126 Lecture hours
616 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: 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, confine 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 Fire fighter 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 4305

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 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.

0.074 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

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 cohesiveness.

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

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

Prerequisite: Appropriate DMV driver's permit (when required)

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course is designed to train firefighters and other interested students to drive emergency response vehicles that include fire engines, fire trucks and ambulances under emergency and non-emergency conditions.

This course will include classroom discussion, driving demonstrations, and driving practice. This course may require students to provide the necessary driving permits needed through the DMV prior to class participation.

0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4331

Pumping Techniques and Certification

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 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.

0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4335

Special Equipment Familiarization

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course is intended for fire department personnel and other interested students who want to learn more about specialized equipment used in today's fire service. Such equipment as the jaws of life, compressor units, lighting units, life-saving equipment and command equipment will be included.

0.074 to 1.482 Units
2 to 40 Lecture hours
2 to 40 Lab hours

FAC 4344

Fire Instructor 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 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 cov-

ered 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 4345

Fire Instructor 1B

Prerequisite: FAC 4344

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

State Board of Fire Services accredited courses in fire service instructional techniques, including methods of instruction, use of audio/visual equipment, employment of instructional aids, test construction, teaching demonstrations and reducing failure rates. This course applies to California Fire Service Training and Educational System certifications.

0.167 to 0.75 Units

8 to 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 provide broad, technical overview of fire prevention codes, ordinances, inspection practices and key hazards including responsibilities and authority, occupancy classification & types of construction, Egress requirements, fire resistive assemblies, general fire safety provisions, principles and procedures for fire inspections.

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, transpor-

tation 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

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, practices utilized, and include 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 or other interested students with an exploration of theories and fundamentals of how and why fires start, spread, and how they are controlled. An in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques will be explored.

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 determining causes of fires (accidental, suspicious and incendiary). Topics covered include arson laws, field note taking, and incendiarism. Also addressed are the recognition and preserving of evi-

dence, 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 121

Emergency Response

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is intended for students that seek a better understanding of the role and responsibilities of a first responder. This class also meets the State of California Title 22 requirements pertinent to CPR, First Aid and AED (automatic external defibrillation) training as it relates to the EMT (Emergency Medical Technician). This course will also certify the student to administer oxygen, provide professional rescuer CPR and provide basic first aid. This course may be repeated once.

3 Units

36 Lecture hours

54 Lab hours

FTEC 150

Truck Company Operations

Prerequisite: Firefighter 1 certification or completion of a CSFM approved Fire Academy

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This course is for veteran firefighters or other interested students that want to enhance their knowledge and ability as it pertains to the fire ground operations associated with truck company tactics and strategy. Basic roof construction, vertical and horizontal ventilation, forcible entry, positive and negative ventilation, search and rescue, thermal imaging technology, firefighter safety and survival, rapid intervention tactics, elevator rescue

and related truck company operations will be discussed.

2 Units

20 Lecture hours

60 Lab hours

FTEC 290

Cooperative Work Experience/Internship for Fire Technology Related Fields

Advisory: READ 023 or appropriate assessment; ENGL 035 or ENLA 100 or appropriate assessment

Transfers to: CSU

This course supports and reinforces on-the-job training in the Fire Technology field under supervision of a college instructor and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in the area of Fire Technology and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of fire technology and have completed or enrolled in the appropriate coursework." Contact the CWE office regarding re-enrollment procedures."

Student Unpaid Internship:

1 Unit/60 hours; 2 Units/120 hours;

3 Units/180 hours; 4 Units/240 hours

Student Paid Internship:

1 Unit/75 hours; 2 Units/150 hours;

3 Units/225 hours; 4 Units/300 hours.

1 to 4 Units

3 Lecture hours

60 to 300 Other

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 3.0 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 162 Lab hours

FIRST YEAR SEMINAR

Division of Library Science

FYS 101

Beyond Words: Visual and Performing Arts in Action

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment;

Transfers to: CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a common selected theme in depth. This seminar course will approach the selected theme as a conduit for understanding the visual and performing arts. FYS 101 will examine the artist's use of an abstracted language that moves beyond words to the visual, aural, and kinesthetic. Students are invited to explore creativity, innovation, self-expression, imagination, close observation, introspection, and inquisitiveness as artistic responses to the world around us. This seminar will then examine how visual and performing artists give shape to these responses by applying skill and ingenuity. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in a variety of media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in dance, design, film, music, theater, and visual art.

3 Units

54 Lecture hours

FYS 102

Business and the Cyber Future

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment;

Transfers to: CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a theme in depth. This seminar course consid-

ers the selected theme through the lens of business principles. FYS 102 will explore concepts, strategies, and practices of management, marketing, finance, accounting, information technology, logistics, and human resources. Through inquiry-based instruction and active learning, students develop into self directed problem-solvers. Coursework will build throughout the semester toward a culminating project in various media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in business and the cyber future.

3 Units

54 Lecture hours

FYS 103

Science in Society

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment;

Transfers to: CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a theme in depth. FYS 103 will explore the selected theme through the lens of the natural sciences, their effects on society, and how the pursuit of science has been influenced by social forces. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in various media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in the natural sciences.

3 Units

54 Lecture hours

FYS 104

Understanding the SELFie: Diversity and Human Experiences

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment;

Transfers to: CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a common selected theme in depth. This seminar course will approach the selected theme as a conduit for understanding diversity and human experiences. FYS 104 will explore major themes, problems, theories, and ideologies from both past and present. This seminar encourages student inquiry and analysis into subject matter which continues to

shape their lives today. This course challenges students to utilize primary skills found in each discipline in order to explain human experiences, examine historical and contemporary theories, and facilitate their contributions to their communities at large. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in various media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in behavioral and social sciences.

3 Units

54 Lecture hours

FYS 105

Voices, Ideas, and the Power of Language

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment;

Transfers to: CSU

This seminar course is designed to introduce first-year students to the spirit of academic excellence and intellectual curiosity that lies at the heart of learning. All First-Year Seminar courses explore a theme in depth. This seminar course will consider the selected theme through the lens of written and oral communication. FYS 105 will explore the etymology, analysis, and practice of how we use symbols in society, both orally and in writing. Through inquiry-based instruction and active learning, students develop into self-directed problem-solvers. Coursework will build throughout the semester toward a culminating project in various media. Through presentations, guest speakers, and field trips, students will be exposed to professions and fields of study in language, literature, and verbal expression.

3 Units

54 Lecture 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 is an introduction to the essentials of French language: reading, listening, speaking, and writing skills. Various facets of French-speaking culture (history, philosophy, and politics) will be analyzed via cross-cultural comparisons. In addition to

classroom discussion, students are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. This class is designed for those interested in learning to speak French as well as those seeking a degree in the French language.

4 Units

72 Lecture hours

FR 102

French II

Prerequisite: Completion of FR 101 with a grade of "C" or better, or completion of 2 years of high school French with a grade of "C" or better

Transfers to: UC, CSU

This course is a continuation of the essentials of the French language: reading, listening, speaking, and writing skills. Various facets of French-speaking culture (history, philosophy, and politics) will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. This class is designed for those interested in continuing to learn to speak French as well as for those seeking a degree in the French language.

4 Units

72 Lecture 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

FR 299

Directed Study: French

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 162 Lab hours

GEOGRAPHIC INFORMATION SYSTEMS

Division of Career & Technical Education

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

36 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

GIS 290

Cooperative Work Experience/Internship for Geographic Information Systems 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 GIS and have completed or enrolled in the appropriate coursework. "Contact the CWE office regarding re-enroll-

ment 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 Other hours

GIS 299

Directed Study in Geographic Information Systems

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Geographic Information Systems beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

GEOGRAPHY

Division of Mathematics & Sciences

GEOG 101 (C-ID GEOG 110)

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

54 Lecture hours

GEOG 101L (C-ID GEOG 111)

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 (C-ID GEOG 120)

Introduction to Cultural Geography

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

Introduction to Cultural 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 3.0 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 162 Lab hours

GEOG 310

Environmental Geography

Prerequisite: ENGL 201 or ENGL 201H, and GEOG 101 (both with a grade of "C" or better)

This upper division General Education course is designed for students pursuing a Bachelor's of Science degree in Automotive Technology, and is open to all students who have successfully completed the requirements to enroll in a 300-level course (junior-level status). This course will examine how the environment is impacted by human activity in different geographical regions and how the environment responds. Topics will include global cycles and systems of the air, water and soil, and the effects of human activity on the environment and living systems. Case studies will be used to investigate specific environmental issues.

3 Units

54 Lecture hours

GEOLOGY

Division of Mathematics & Sciences

GEOLOGY 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 an introduction to the principles of geology with emphasis on Earth processes. This course focuses on the internal structure and origin of the Earth and the processes that change and shape it. Earthquakes, Volcanoes, Oil, Beaches, Tsunamis, Rocks, Rivers, Glaciers, Plate Tectonics, Minerals, Continent and Mountain Building are among the many diverse topics that are explored.

3 Units

54 Lecture hours

GEOL 151 (C-ID GEOL 100L)

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 principles presented in Geology 150 and their application to everyday life. Laboratory exercises will include (but are not limited to) the identification of minerals, igneous, metamorphic and sedimentary rocks, topographic and geologic map exercises demonstrating the work of water, wind, ice and gravity and effects of tectonic activity.

1 Unit

54 Lab hours

GEOL 152

Historical 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

This course is an introduction to Earth's history and the life it supports. Subjects include geologic dating, global tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the processes that have influenced paleogeography during the past 4.6 billion years.

3 Units

54 Lecture hours

GEOL 152L

Historical Geology Lab

Prerequisite/Corequisite: GEOL 152

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 the laboratory component to an introduction to Earth's history and the life it supports. Subjects include geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the processes that have influenced paleogeography during the past 4.6 billion years.

1 Units

54 Lab hours

GEOL 299

Directed Study: Geology

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 162 Lab hours

GRAPHIC DESIGN

Division of Arts & Cultural Programs

GDSN 150

Typography

Advisory: READ 022 or appropriate assessment; NVOC 007

Transfers to: CSU

This course is for the student interested in the history, theory and practice of letterforms and typography as they apply to graphic design, advertising, and other areas of design

and visual communication. Projects cover the history and principles of typography, letter structure, typeface selection, fundamentals of typesetting, and introductory typographic layout.

3 Units

54 Lecture hours

54 Lab hours

GDSN 151

Typographic Design

Prerequisite: GDSN 150

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This course is for the student interested in the theory and practice of letterforms and typography as they apply to graphic design, advertising, and other areas of design and visual communication. Focus is on the compositional use of type and its relationship to issues of visual hierarchy, readability, and page structure. Students continue their exploration of typography as an expressive visual form through typographic design projects.

3 Units

27 Lecture hours

81 Lab hours

GDSN 162

Introduction to Web Design: User Experience Design (UX)

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This Web Design class is a practical introduction for students interested in UX (user experience) and visual interface design and the challenges it poses for the Graphic Designer. Using Web Design applications like Adobe Dreamweaver and Adobe Photoshop, students are introduced to the steps involved in creating a basic functional interactive website. Topics include aesthetic design considerations, front-end technology, interaction, UX, UI and CSS design, file optimization, and website principles and practices. For the student interested in a degree in Graphic Design or those interested in web design and interactive design.

3 Units

54 Lecture hours

54 Lab hours

GDSN 163

Intermediate Web Design: Interactive Design

Prerequisite: GDSN 162

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

Focusing on usability, this intermediate class offers broader and more advanced instruction into the 'front-end' visual design and aesthetics of interactive media as well as the technical and design requirements of

designing a fully functional website. Using intermediate web design applications, students are instructed in techniques needed in increasing the user experience (UX). Students continue to perfect the creation of a fully functional website using multifaceted applications. Topics include interactive design software, front-end aesthetics, technology, interaction, UX, UI and CSS design, the principles and elements of digital design and aesthetics, and interactive design business practices. For the student interested in a degree in Graphic Design or those interested in web design and interactive design.

3 Units

27 Lecture hours

81 Lab hours

GDSN 164

Digital Illustration (Illustrator) (Formerly ART 164)

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This course is an introduction to Graphic Design, and uses Adobe Illustrator design software as the principal digital tool. Topics include the Principles and Elements of Design, typography, color, shape stroke, illustration techniques, page layout design, as well as introductory critical concepts and professional practices employed by Graphic Designers. This course includes portfolio building with an emphasis on professional standards. This course is for the student interested in a degree in Graphic Design or those interested in 2 dimensional design and layout applications employed as tools by Graphic Designers.

3 Units

54 Lecture hours

54 Lab hours

GDSN 165

Branding and Identity Design (Formerly ART 165)

Prerequisite: GDSN 164

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This course is an exploration of Branding and Identity Design, a sub-discipline of Graphic Design. Topics include the research and development of Trademarks and Logos for clients, the Principles and Elements of Design, typography, color, shape stroke, illustration techniques, page layout design, as well as intermediate and advanced critical concepts and professional practices employed by Graphic Designers. This course includes portfolio building with an emphasis on professional standards. This course is for the student interested in a degree in Commercial Art or Graphic Design or those interested

in 2 dimensional design and layout applications employed as tools by Graphic Designers.

3 Units

27 Lecture hours

81 Lab hours

GDSN 172

Publication Design (InDesign) (Formerly ART 172)

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This course is an exploration of Publication Design, a sub-discipline of Graphic Design. Topics include the Principles and Elements of Design, page composition, creative use of typography, color, imagery and the grid, discussion of output and prepress considerations for print and digital distribution as well as current methods/styles critical concepts and professional practices employed by Graphic Designers. This course includes portfolio building with an emphasis on professional standards. This course is for the student interested in a degree in Graphic Design or those interested in 2 dimensional design and layout applications employed as tools by Graphic Designers.

3 Units

54 Lecture hours

54 Lab hours

GDSN 174

Packaging Design

Prerequisite: GDSN 172

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This course is for the student interested in a degree in Graphic Design and/or those interested in Packaging Design layout applications employed as tools by Graphic Designers for two-dimensional and three-dimensional surfaces. This course is a project-driven exploration of Packaging Design which is defined as stylized functional design for carrying, protecting, or presenting a product. This course builds on the foundational skills of Publication Design expanding them on two-dimensional and three-dimensional surfaces. Topics include: the Principles and Elements of Design, current technical and creative methods and styles employed by Package Designers, as well as sustainability, advanced critical concepts and professional practices. This course includes portfolio building with an emphasis on professional standards.

3 Units

27 Lecture hours

81 Lab hours

GDSN 178
Digital Imaging (Photoshop)
(Formerly ART 178)

Advisory: READ 022 or appropriate assessment

Transfers to: UC, CSU

This course is for the student interested in a degree in Commercial Art or Graphic Design or those interested in 2 dimensional design and layout applications employed as tools by Graphic Designers. This course is an exploration of Graphic Design, and uses Adobe Photoshop software as the principal digital tool. Topics include: photo/raster/bitmapped-based scanning, image formats, optimization, re-touching, adjustments, compositing, blending, color, conceptual and narrative techniques, current technical and creative methods and styles employed by Graphic Designers as well as introductory critical concepts and professional practices. This course includes portfolio building with an emphasis on professional standards.

3 Units

54 Lecture hours

54 Lab hours

GDSN 179
Advanced Digital Imaging (Photoshop)

Prerequisite: GDSN 178

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This course is for the student interested in a degree in Graphic Design and/or those interested in advanced 2 dimensional design and layout applications employed as tools by Graphic Designers. This course is an advanced project-driven exploration of Graphic Design, and uses Adobe Photoshop software as the principal digital tool. Topics include: photo montage, compositing, collage, advanced conceptual and narrative techniques, current technical and creative methods and styles employed by Graphic Designers, as well as advanced critical concepts and professional practices. This course includes portfolio building with an emphasis on professional standards.

3 Units

27 Lecture hours

81 Lab hours

GDSN 299
Directed Study in Graphic Design

The course provides an opportunity for the student to expand their studies in Graphic Design beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a

2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

HEALTH SCIENCE

Division of Health Science & Nursing

HS 045

Math for the Health Care Professional

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 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

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 lab consist 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 051L

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 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 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

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 lab 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 052L

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 are Certified Nurse Assistants that wish to learn how to provide personal care in the home care setting for those who are unable to do it for themselves and/or promote the recovery, safety and comfort of the patient. Additional emphasis on rehabilitative nursing care, family relationships and the impact of long-term illness on the family as well as the client will be included. The Home Health Aide training course consists of 27 hours classroom instruction. This course meets title 22 regulations for Home Health Aides training programs. The California Department of Health requires that students must be concurrently enrolled in both HS 052 and HS 052L, and pass both courses together. They cannot be taken individually for credit.

1.5 Units
27 Lecture hours

HS 052L

Home Health Aide Training Course Lab

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 54 hours supervised clinical practice in either the Acute care or Skilled Nursing Facility. This course meets title 22 regulations for Home Health Aides training programs. The California Department of Health requires that students must be concurrently enrolled in both HS 052 and HS 052L, and pass both courses together. They cannot be taken individually for credit.

1 Unit
54 Lab hours

HS 054

Beginning Terminology for Healthcare Workers

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C

This course covers the basic knowledge and understanding of medical language, terminology, and basic human anatomy. The student will learn word parts, prefixes, suffixes, word roots and will review the body systems. Anatomical, physiological and pathophysiological terms will also be defined. This is an entry-level course for students interested in the health care field and is highly recommended prior to enrolling in any health-related course.

3 Units
54 Lecture hours

HS 060

Health Science Core

Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MATH 020 or MATH 020C or appropriate assessment

This is a basic course which focuses on medical terminology, normal body structures and functions, the principles of nutrition, and the relationship of nutrition to health. It provides a strong foundation for all students entering the health care field. This course is a prerequisite for the Vocational Nursing Program.

5 Units
90 Lecture hours

HS 070

Introduction to Ambulatory Care Nursing

Prerequisite: Possess an unrestricted California RN license

This is an introductory level course to prepare the licensed RN to work in the ambulatory care nursing setting. This course includes classroom lecture and learning activities that provides the type of skills and competencies needed for the RN to

work in outpatient care settings, such as clinics.

4.5 Units
81 Lecture hours

HEAT & FROST

Division of Career & Technical Education

HEFR 040

Insulation Industry Orientation

Prerequisite: State Indentured Heat and Frost Insulator 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 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

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 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

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 boilers, insulating techniques, stacks, breechings, hi-ribb 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

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. 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

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 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

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

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

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

HEFR 048

Firestop Applications

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 Indentured Apprentices with the State of California who are interested in the Insulation and Firestop Industry. Topics include layout, fabrication, and installation procedures for firestopping systems on mechanical, electrical, and plumbing penetrations on maintenance and repair.

3 Units

40 Lecture hours

40 Lab hours

HEFR 049

Advanced Life Safety Firestop Application

Prerequisite: State Indentured Heat and Frost Insulator Union Apprentice; HEFR 040; HEFR 048

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 Insulation and Firestop Industry. Topics include advanced layout, advanced fabrication, and advanced installation procedures for firestopping systems on mechanical, electrical, and plumbing penetrations on maintenance and repair.

3 Units

40 Lecture hours

40 Lab hours

HEFR 290

Work Experience in Heat and Frost Insulator Apprenticeship

Prerequisite: State Indentured Heat and Frost Insulator Union Apprenticeship

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides students the opportunity to work in the Heat and Frost Insulators apprenticeship program for the purpose of developing specific skills to meet the goals and objectives of the Heat and Frost Insulator Joint Apprenticeship and Training Committee (J.A.T.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all Work Experience course offerings. Only one Work Experience course may be taken per semester.

1 to 4 Units

3 Lecture hours

75 to 225 Other hours

HEAVY EQUIPMENT TECHNOLOGY

Division of Career & Technical Education

HET 051

Outdoor Power Equipment Operation and Maintenance

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 of a multitude of outdoor power equipment, such as garden tractors, lawn equipment, personal watercraft, portable

generators, air compressors, pressure washers and many others that are powered by small displacement internal combustion engines. Students will learn tools and service 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 equipment to complete required tasks. This course is designed to be a companion course to HET 052 and HET 053. Students are encouraged to complete all three courses in order to obtain a firm foundation in Outdoor Power Equipment.

4 Units

54 Lecture hours

54 Lab hours

HET 052

Outdoor Power Equipment Engine Repair

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course is designed to provide the student with the skills required to repair the engines used in Outdoor Power Equipment. Emphasis is placed on problem diagnosis, service procedures, proper repair techniques, and machining operations. In addition, the students will learn tools and service equipment use and will have the opportunity to perform repair work on their own equipment to complete required tasks. This course is designed to be a companion course to HET 051 and HET 053. Students are encouraged to complete all three courses in order to obtain a firm foundation in Outdoor Power Equipment.

4 Units

54 Lecture hours

54 Lab hours

HET 053

Outdoor Power Equipment Engine Systems

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course is designed to provide the student with the skills required to repair the engine systems used in Outdoor Power Equipment. Emphasis is placed on problem diagnosis, service procedures and proper repair techniques of fuel, ignition, lubrication and cooling systems. In addition, the students will learn tools and service equipment use and will have the opportunity to perform repair work on their own equipment to complete required tasks. This course is designed to be a companion course to HET 051 and HET 052. Students are encouraged to complete all three courses in order to obtain a firm foundation in Outdoor Power Equipment.

4 Units

54 Lecture hours

54 Lab hours

HET 101

Introduction to Heavy Equipment Technology (Formerly HET 040)

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This is an introductory course designed to familiarize the student with the basic operation and maintenance of a multitude of systems commonly found on Heavy Equipment machinery. Students will learn the fundamentals of diesel engines, clutches, manual transmissions, torque converters, automatic transmissions, drive lines, steer and drive axles, various brake and hydraulic systems. In addition, the students will learn basic tools and equipment, and how to safely perform basic repairs and maintenance operations. This is the first course in a series of Heavy Equipment Technology classes, and is designed for the student who wants to enter the field of Heavy Equipment Maintenance and Repair.

4 Units

54 Lecture hours

54 Lab hours

HET 106

Heavy Equipment Electrical Fundamentals (Formerly HET 041)

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This introductory course is designed to familiarize the student with the heavy equipment's electrical and electronic systems. Topics covered include fundamentals of electricity, basic circuits, schematics, symbols, diagrams, DVOM, graphing multimeter and oscilloscope usage, wire repair techniques, electrical components, semiconductors (including IC), battery, charging, starting, accessory, and instrumentation systems. Demonstrations using the A-Tech circuit boards will be used to illustrate electrical principles, including strategy-based diagnostics.

4 Units

54 Lecture hours

54 Lab hours

HET 107

Heavy Equipment Operation, Performance Testing and Adjusting (Formerly HET 047)

Prerequisite: HET 101; HET 106

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed to familiarize the students with California and Federal OSHA Safety Regulation for the General Industry Workplace,

and a variety of material handling and construction equipment including forklifts, skid steer loaders, and front end loaders/backhoes. Topics covered include rules and regulations, worksite material storage and handling, fire protection and prevention, hand and power tools, welding and cutting, electrical safety, and fall protection. Machine specific terminology, pre-operational inspection, principles of balance and stability, capacity and load handling, refueling, hydraulic power, job site and pedestrian safety will also be covered. Students will learn how to safely verify the machine performance and how to perform minor adjustments of various subsystems if needed. Upon successful completion of this course and forklift operation examination the student will receive a Certificate of Completion and wallet card for Forklift Operator Safety Training as required by OSHA 1910.178(l) and CAL/OSHA Title 8 (Section 3669), which is good for three years, and a 10-hour OSHA Training Certificate of Completion, which is good for life.

4 Units

54 Lecture hours

54 Lab hours

HET 140

Heavy Equipment Electrical Diagnostics (Formerly HET 050)

Prerequisite: HET 107

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed to familiarize the student with the heavy equipment's electrical and electronic systems. Topics include review of electrical theory, circuit faults, electrical and electronic components usage and diagnostics, computers, sensors, actuators, and data communications. A-Tech simulator boards will be used to illustrate different component functions. In addition, the students will be introduced to the strategy based diagnostics, including troubleshooting electrical problems using live equipment.

4 Units

54 Lecture hours

54 Lab hours

HET 150

Heavy Equipment Fuel Systems and Emissions (Formerly HET 046)

Prerequisite: HET 107

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed to familiarize the students with a wide variety of heavy equipment diesel engine fuel systems and operation. Topics

covered include hydro-mechanical 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 160

Heavy Equipment Diesel Engines (Formerly HET 044)

Prerequisite: HET 107

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed to familiarize the students with the mechanical aspects of the Heavy Equipment diesel engines. Topics covered include engine terminology, designs, theory of operation, construction, disassembly, cleaning, components inspection, failure analysis, and reassembly. In addition, proper shop and personal safety, correct usage of shop and hand tools, precision measuring instruments, critical fasteners, and how to use manufacturer's service specifications information will also be covered.

4 Units

54 Lecture hours

54 Lab hours

HET 200

Heavy Equipment Hydraulic Fundamentals (Formerly HET 043)

Prerequisite: HET 107

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This introductory course is designed to familiarize the students with a variety of mobile hydraulic systems and their operational characteristics. Topics covered include hydraulics safety, hydraulic power principles, system designs, basic components, oil contamination and filtration, hydraulic symbols, schematics, diagrams, and testing instruments. In addition, an overview of electro-hydraulic systems including electric and electronic components, controllers, controller programming, and

data communication, will also be covered. Hydraulic trainer simulators will be used to illustrate power principles and operation. Using hydraulic schematics the students will build a wide variety of hydraulic systems commonly installed in modern heavy equipment.

4 Units

54 Lecture hours

54 Lab hours

HET 210

Heavy Equipment Hydraulic Diagnostics (Formerly HET 049)

Prerequisite: HET 200

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is intended to familiarize the students with the heavy equipment's hydraulic and electro-hydraulic systems. Topics include review of hydraulic theory and basic hydraulic system designs and components, hydraulic and electronic components used in electro-hydraulic systems, hydraulic controllers, sensors, actuators, and data communications. In addition, the students will be introduced to the strategy-based diagnostics, with an emphasis on electro-hydraulic controls failures, using hydraulic trainer simulators and live equipment.

4 Units

54 Lecture hours

54 Lab hours

HET 220

Heavy Equipment Powertrains I (Formerly HET 045)

Prerequisite: HET 107

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed to familiarize the students with conventional Heavy Equipment powertrain systems and components. Topics covered include fundamentals of gears, friction and anti-friction bearings, mechanical clutches, manual transmissions, driveline systems, drive axles, final drives, hydraulic and air brakes, and undercarriage systems. Component failure analysis will be discussed as part of disassembly, inspection, and reassembly of various transmissions, drive axles, and final drives. In addition, proper shop and personal safety, and how to use manufacturer's service specifications information will also be covered.

4 Units

54 Lecture hours

54 Lab hours

HET 230

Heavy Equipment Powertrains II (Formerly HET 048)

Prerequisite: HET 220

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is intended to familiarize the students with a wide variety of modern heavy equipment powertrains systems and components. Topics covered include powershift transmissions, torque converters, hydrostatic drive systems, AC electric drive systems, spring-applied hydraulically released brakes, steering, and suspension systems. Component failure analysis will be discussed as part of disassembly, inspection, and reassembly of various transmissions, drives, brakes and steering systems. In addition, proper shop and personal safety, and how to use manufacturer's service specifications information will also be covered.

4 Units

54 Lecture hours

54 Lab hours

HET 240

Heavy Equipment Heating, Ventilation and Air-Conditioning (Formerly HET 042)

Prerequisite: HET 107

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed to familiarize the student with the heavy equipment's heating, ventilation and air-conditioning systems, and prepare them for an entry level technician in this field. Topics covered include environmental and safety practices, thermodynamic principles, refrigeration systems, engine cooling and heat sources, service and troubleshooting procedures. Automatic systems, service equipment, contamination issues and the rules of AQMD/EPA will also be covered. During the course, students will be given the opportunity to earn their certification license (EPA Rule 1411).

4 Units

54 Lecture hours

54 Lab hours

HET 290

Cooperative Work Experience/Internship for Heavy Equipment 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 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 Other hours

HET 299

Directed Study in Heavy Equipment Technology

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Heavy Equipment Technology beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

HISTORY

Division of Behavioral & Social Sciences

HIST 101 (C-ID HIST 150)

History of World Civilization to the 17th Century

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 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. This course also satisfies a course requirement for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 102 (C-ID HIST 160)

History of World Civilization, 1500 to the Present

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 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 and appreciation of both the diversity and the unity of the modern world. This course also satisfies a course requirement for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 122

History of Mexico

Advisory: ENGL 030 or ENLA 034 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. This course is also a restricted elective for the History for Transfer (AA-T) degree.

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. It is recommended for all history major. This course also satisfies a course requirement for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 143 (C-ID HIST 130)

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 and the American Institutions requirement for the Associate degree. This course also satisfies a requirement for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 143H (C-ID HIST 130)

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, 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; it fulfills the CSU/UC American Institutions requirement and the American Institutions requirement for the Associate degree and is intended for those who meet Honors Program requirements. This course also satisfies a requirement for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 144 (C-ID HIST 140)

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 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. This course fulfills the American Institutions requirement for the Associate Degree. It is recommended for all History majors and satisfies a course requirement for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 144H (C-ID HIST 140)

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 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. This course fulfills the American Institutions requirement for the Associate Degree. It is recommended for all History majors and satisfies a course requirement for the History for Transfer (AA-T) degree and is intended for those who meet Honors Program requirements.

3 Units

54 Lecture hours

HIST 156

Black American Experience to 1865

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This survey investigates the history of African Americans from their west African origins to the abolition of slavery, roughly dating from the 1400s to 1865. In this course, students will examine the ways, in which, blacks constructed a distinct African American culture, influenced by the African past, shared experiences of enslavement, and the experiences of free blacks. This course will also pay close attention to the methods and tactics employed by blacks to exert control over their lives, highlighting their major successes and achievements, despite myriad forms of oppression and discrimination.

3 Units

54 Lecture hours

HIST 157

Black American Experience Since 1865

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course examines the historical experiences of black Americans from emancipation to the present, paying close attention to the 20th century. This course will navigate and examine the factors that led to the development of a distinct black American culture, a legacy of resistance against legal and extralegal inequities, the acquisition of political and economic rights, and black contributions to the expanding definition of democracy and freedom.

3 Units

54 Lecture hours

HIST 158

US Comparative History of American Indians and Black Americans

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. This course also satisfies a course require-

ment for the AA-T in History for Transfer degree.

3 Units

54 Lecture hours

HIST 159

US Comparative History of Mexican and Asian Americans and 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. This course is a restricted elective for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 159H

US Comparative History of Mexican and Asian Americans & 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 for the Associate degree and CSU, those who desire a better understanding of the history of minorities in the United States, and those wishing to take the Honors version. This course is a restricted elective for the History for Transfer (AA-T) degree. This course is intended for those who meet Honors Program requirements.

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 be 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. It also satisfies a course requirement for the History for Transfer (AA-T) degree.

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. This course satisfies a course requirement for the History for Transfer (AA-T) degree.

3 Units

54 Lecture hours

HIST 299

Directed Study in History

Prerequisite: HIST 101 or 102 or 143 or 143H or 144 or 144H with a grade of "C" or better

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: UC, CSU

The course provides an opportunity for the student to expand their studies in History beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

HIST 325

History of Science and Technology

Prerequisite: ENGL 201 or ENGL 201H, and HIST 101 or HIST 102 or HIST 143 or HIST 143H or HIST 144 or HIST 144H (both with a grade of "C" or better)

This upper division General Education course is designed for students pursuing a Bachelor's of Science degree in Automotive Technology but it is also open to all students who have successfully completed the prerequisites. This course explores the history of science and technology from the initial understandings of the universe from Ptolemy and Aristotle, to the challenges brought by the scholars of the Scientific Revolution, to the modern innovators of scientific developments and advancements in technology. This course provides an overview of how individuals, societies, and nations were impacted by these developments and how science and technology impacts political, social, economic, and cultural changes over time. Since both science and technology are vital in the 21st century, this course aims to highlight the long history behind each from a global historical perspective.

3 Units

54 Lecture hours

HOMELAND SECURITY

Division of Public Safety

HMLD 101

Introduction to Homeland Security

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course provides first responders and other interested students with the foundational knowledge pertaining to homeland security. This course will include discussions on the policies, organizational relationships, and legal issues in the American context from federal, state and local municipal government perspectives.

3 Units

54 Lecture hours

HOSPITALITY

Division of Career & Technical Education

HOSP 101

Introduction to the Hospitality Industry

Transfers to: CSU

This course provides an overview of the hospitality industry with perspectives on customer service, operations, and career opportunities. Key

industry segments are presented with close attention to service standards, trends and issues, the interrelationships between industry segments and the connections with the tourism industry.

3 Units

54 Lecture hours

HOSP 102

Introduction to Hotel Operations

Transfers to: CSU

This course is designed to introduce students to the hotel industry. Students will gain an understanding of hotel organization and classification, and the range of hotel operations including front office, housekeeping, food and beverage, information systems, accounting, and property maintenance. They will also gain an understanding of how these functional areas work together to deliver the guest experience and exceed guests' expectations.

3 Units

54 Lecture hours

HOSP 103

Sanitation and Safety

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment;

Transfers to: CSU

In this course, students will learn the principles and practices of sanitation and safety in food service operations. Topics covered include food-borne illness identification and prevention, the Hazard Analysis of Critical Control Point (HACCP) system, safety maintenance and prevention, OSHA's current regulations, accident and fire prevention. The course will also prepare students for the National Restaurant Association's ServSafe® Manager Certification.

3 Units

54 Lecture hours

HOSP 104

Introduction to Food and Beverage Management

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed to introduce students to the food and beverage industry and entry-level management of food and beverage operations. Focal areas include an overview of the food service industry, nutrition, menu pricing and food costs, types of food and beverage service, sanitation and safety, managing finances, and sustainability.

3 Units

54 Lecture hours

HOSP 201**Hospitality Law***Transfers to: CSU*

In this course, students gain an understanding of the legal aspects of managing hospitality operations. Limiting personal and business exposure to liability and best practices for complying with laws and regulations are emphasized. Topics include food and beverage liability, employee selection, common contracts, responsibilities to guests and for guest property, and safety and security.

3 Units**54 Lecture hours****HUMAN SERVICES****Division of Behavioral
& Social Sciences****HUSR 111****Human Services in Contemporary Society***Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment**Transfers to: CSU*

This course is an introduction to the history and philosophy of human services in contemporary society. The function and objectives of human service organizations as well as the qualifications of the professional will be emphasized. A survey of the populations served in the field will focus on cultural, social, economic and historical trends. The course is designed for students pursuing careers in social work, counseling or community organizing.

3 Units**54 Lecture hours****HUSR 118****Chemical Dependency: Intervention, Treatment, and Recovery***Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment**Transfers to: CSU*

This course provides an introduction to current perspectives with respect to the management of chemical dependency. Through an examination of alcoholism as a model of drug dependence, the treatment of and recovery from such disorders will be explored from two divergent perspectives: the reformative and the transformative. Current treatment modalities will be compared and contrasted in terms of their view of the individual in both the social and clinical context. The class experience itself will serve as an intervention by challenging students to examine their existing ideas about treatment and recovery from substance use disorders. Suitable for students interested

in furthering their understanding of substance dependence and those interested in working with populations recovering from or at risk for such problems.

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 123****Drug Education and Prevention (Formerly PSY 123)***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****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 Units**54 Lecture 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 intern-

ship 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 move-

ments 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.

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 (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 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

JAPANESE

Division of Communications & Languages

JAPN 101 Japanese 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 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. Various facets of Japanese history, culture and civilization will also be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. 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 grade of "C" or better, or completion of 2 years high school Japanese 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 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. Various facets of Japanese history, culture and civilization will also be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on

vocabulary, grammar, and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. 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 Photo-shop 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. Students will study methods of preparing material intended for publication in print and online editions of newspapers.

3 Units

54 Lecture hours

JOUR 230 Magazine Production

Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment

Advisory: READ 023 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.

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 (C-ID JOUR 130)

Newspaper Production I

Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This course is intended for students wanting to learn production and management techniques for a college newspaper. Students will participate in every facet of developing a newspaper for the college community by serving as staff writers, staff photographers, editors and layout personnel. Students will publish the college newspaper, El Paisano, during the semester by having weekly assignments for different sections of the paper such as: News, Features, Arts and Entertainment, Opinion, Advertising and Sports. In addition students may be taking photos for special Focus pages. Editors will be responsible for designing their sections of the newspaper on days designated by deadline of the publication by using Quark Express and Photoshop.

4 Units

36 Lecture hours

108 Lab hours

JOUR 242 (C-ID JOUR 130)

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 an online publication. Students will participate in every facet of developing and gathering the news for the online edition of El Paisano during the semester by having daily and weekly assignments for different sections of the newspaper such as: News, Features, Arts and Entertainment, Opinion, Advertising, and Sports. In addition students may be taking photos for special slide shows online, developing and producing Radio Podcasts online and developing and producing Video News and Feature programs online. Editors will be appointed and will give out assign-

ments to staff personnel during the semester and help with the development of each member of the class to produce viable online news.

4 Units

36 Lecture hours

108 Lab hours

JOUR 243 (C-ID JOUR 131)

Newspaper Production II

Prerequisite: JOUR 241

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. Students will continue writing and producing El Paisano, the campus newspaper, through continued lectures and advanced demonstrations and the proper techniques for writing, proofreading, layout by learning Quark Express and photo enhancements through Photoshop. Students will be expected to serve in leadership roles and cover a major or public affairs beat.

4 Units

36 Lecture hours

108 Lab hours

JOUR 244 (C-ID JOUR 131)

Digital Newspaper Production II

Prerequisite: JOUR 242

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 continue in an advanced degree the production and management techniques of the college newspaper El Paisano as an online publication. Students will continue to work on writing for the online newspaper but will learn, by hands-on development, actual video broadcasts by using station video equipment that will encompass the entire Rio Hondo campus and areas of interest within 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 Other 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 162 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.

1 Unit

18 Lecture hours

54 Lab hours

KIN 122

Nutrition for Sport and Fitness

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 the role of nutrition to increase energy and enhance performance. Nutrient needs before, during, and after exercise are evaluated for their 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 under-

standing 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 impair-

ments, 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 300 yards continuously; Tread water for two minutes using only the legs; Complete timed swimming, submersion and retrieval event; Swim at American Red Cross Learn-to-Swim Level 4 Proficiency

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This course is of interest to students who wish to earn the American Red Cross certifications necessary for employment as a pool lifeguard and swimming instructor. This course gives the most current instruction in American Red Cross (ARC) lifeguard training, first aid and cardiopulmonary resuscitation/automated external defibrillation (CPR/AED) skills and Water Safety Instructor (WSI) courses. Upon successful completion, students earn certifications for American Red Cross Lifeguard Training, CPR/AED for the Professional Rescuer, First Aid for Public Safety Personnel (Title 22), and Water Safety Instructor. These certifications enable students to gain eligibility for a pool lifeguarding position and to teach the Learn-to-Swim programs of the American Red Cross. Adequate swimming skills are necessary at the Learn-to-Swim Level 4. Students may petition to re-enroll in the course to renew certifications.

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 padding 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 appropriate coursework. "Contact the CWE office regarding re-enrollment procedures."

Student Unpaid Internship:

1 Unit/60 hours; 2 Units/120 hours

Student Paid Internship:

1 Unit/75 hours; 2 Units/150 hours

1 to 2 Units

3 Lecture hours

60 to 150 Other hours

KIN 297

Advanced Athletic Training

Prerequisite: KIN 197

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course introduces the advanced concepts of athletic training, including instruction for evaluation and rehabilitation of common athletic injuries. Advanced taping and bracing techniques will also be presented and practiced. This class is designed for students interested in becoming a Certified Athletic Trainer or those who are preparing for a career in any allied health care profession.

3 Units

54 Lecture hours

KINESIOLOGY

Division of Kinesiology, Dance, and Athletics

(For Dance courses – See Dance) Dance-activity courses may be used in place of P.E. activity courses to fulfill degree requirements.

Students may select several different courses or may enroll in a course and continue to the next level of the same course. Courses labeled "I" and "II" fall into the continued instruction category.

KINA 101

Tennis I

Advisory: ENGL 035 or ENLA 100 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 tennis class designed to take the student to a recreational level in skills. Instruction in the serve, groundstroke, volley, and rules 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

KINA 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

KINA 103

Softball 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 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

KINA 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

KINA 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

KINA 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

KINA 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

KINA 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 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; KINA 117

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 during traditional Pilates mat work. This course is suitable for students interested in conditioning, dance, Hatha Yoga, athletics, and individuals seeking to increase strength to better support the spine in everyday activities.

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
Transfer 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 through advanced student who wishes to increase their cardiovascular fitness level through a variety of aerobic and anaerobic activities. It is designed to present the following skills to the student: running, cycling, swimming, interval training, and introduction to weight training. Additionally, the student will learn basic definitions and terminology of the current fitness arena, assisting them with fitness as a life-long process using a variety of cardiovascular mediums.

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 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 course is designed for the beginning student who would like to learn the fundamental physical Asanas (poses) of Hatha Yoga as well as Pranayama (breathing techniques) and Dhyana (meditation techniques). The goal of the course is to integrate the mind, body, and spirit and to give the student tools to better manage stress, alleviate physical tensions, and encourage optimum fitness. In this introductory course, students learn proper physical alignment in the standing poses (Sun Salutation Series A-C, Warrior 1-2, Downward Dog, Upward Dog, Cobra, Triangle, Crescent), the floor poses (Staff, Lotus, Cobbler, Twists, Backbends), and in elementary inversions (Inverted Leg Rest, Headstand Preparation, Wall-Dog Preparation).
1 Unit
54 Lab hours

KINA 159

Cross Training for Intercollegiate Athletics

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 any student preparing for intercollegiate 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

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 180

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

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

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: 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 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; READ 022 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: 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 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 inter-

ested 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**

Prerequisite: KINA 107 or instructor approval for admission

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 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: 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 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 213**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 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 217**Swimming II**

Advisory: READ 022 or appropriate assessment; KINA 117

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 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, Prasrita Padottanasana, Malasana, Garudasana, Natasajasana, Utthita Hasta Padangustasana, Chaturanga Dandasana, Purvottanasana, Navasana, Virasana, Ustrasana, Matsyasana, Sarvangasana, Suryya 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 Intercollegiate
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 101
Introduction to Landscape Design & Maintenance
(Formerly LAND 095)

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; ENGT 101
Transfers to: CSU

This introductory landscape design course is designed for the non-scientist and specifically for the amateur garden enthusiast interested in learning landscape design from a landscape professional. The course is a general overview of landscape design which include topics of landscape design, planting and irrigation design, plant identification, cost analysis, and maintenance. The class sessions are a combination lecture, hands-on planting and irrigation design lessons and plant identification. A field trip to a local nursery or demonstration garden is planned for the semester.

3 Units
45 Lecture hours
27 Lab hours

LAND 102
Introduction to Landscape Architecture & Design

Prerequisite: ENGT 101 with a grade of "C" or better

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ENGT 105
Transfers to: CSU

This introductory course is 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

LAND 103
Landscape Architecture Theory and Form

Prerequisite: LAND 102
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; ENGT 105
Transfers to: CSU

This is a continuation course to LAND 102, Introduction to Landscape Architecture and Design. This course expands upon fundamental landscape design principles and concepts. The course examines theory and methods pertaining to landscape architecture design and site planning. Study and design of landscape will be conducted from small local scale to larger regional scale through in-class assignments, multi-week projects, model-making, and readings. Comprehension of topography and design of landform through 2D and 3D model studies will also be included.

4 Units
54 Lecture hours
54 Lab hours

LAND 121
Introduction to the History of Landscape Architecture

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course will cover Landscape Architecture/Design history from Prehistory to the 21st Century with an emphasis on utilizing a visual reference of historic landscapes which capture the exuberance of landscape design. As an art form, a designed landscape is a cultural product, representing the ideas and values of its creator, owner, or patron, and situated within social, economic, and

political environments. Information is unique in its design focus, chronological organization, and visual organization. This course is open to all students at Rio Hondo College wanting to broaden their knowledge of significant Landscape Architectural history.

3 Units

54 Lecture hours

LAND 299

Directed Study in Landscape Design

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Landscape Design beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 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: UC, 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 law, medicine, and other fields where Latinate terminology is common.

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

LIBRARY

Division of Library & Instructional Support

LIB 101

Fundamentals of Library Research

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 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

LITERATURE

Division of Communications & Languages

LIT 102 (C-ID ENGL 120)

Approaches to Literature

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: LIT 102 or LIT 102H)

This course is designed for students who wish to study the four general literary forms: poetry, drama, short story, and novel. Emphasis will be placed on critical thinking, critical reading, and composing. Compositions will be based upon discussion, analysis and interpretations of literature, and upon the relationship of Western and Non-Western literature to contemporary thought.

3 Units

54 Lecture hours

LIT 102H (C-ID ENGL 120)

Approaches to Literature 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: LIT 102 or LIT 102H)

This course is designed for students who wish to study the four general literary forms: poetry, drama, short story, and novel. Emphasis will be placed on critical thinking, critical reading, and composing. Compositions will be based upon discussion, analysis and interpretations of literature, and upon the relationship of Western and Non-Western literature to contemporary thought. This course is intended for students eligible for the Honors Program.

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 112AH (C-ID ENGL 130)

American Literature Honors

Prerequisite: ENGL 101 with a grade "C" or better; READ 023 or appropriate assessment

Corequisite: ENGL 101 for new students
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. This course is designed for students eligible for the honors program.

3 Units

54 Lecture hours

LIT 112B (C-ID ENGL 135)

American Literature

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: 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, Milcha Sanchez-Scott, and others.

3 Units

54 Lecture hours

LIT 112BH (C-ID ENGL 135)

American Literature 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: 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, Milcha Sanchez-Scott, and others. This course is intended for students eligible for the Honors Program.

3 Units

54 Lecture hours

LIT 114 (C-ID ENGL 180)

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 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, Latino, 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.

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 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. This course is intended for students eligible in 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

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. This course is intended for students eligible for the honors program.

3 Units

54 Lecture hours

LIT 140

Introduction to the Novel

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 140 or LIT 140H)*

This course introduces students to a variety of approaches to the novel. Course readings will focus on novels selected from different historical periods and within a variety of cultural traditions. Students will gain an understanding of the features that distinguish the novel as a literary genre: narrative structure, point of view, character development, setting, theme, style, imagery and symbol. 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 140H

Introduction to the Novel 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: LIT 140 or LIT 140H)*

This course introduces students to a variety of approaches to the novel. Course readings will focus on novels selected from different historical periods and within a variety of cultural traditions. Students will gain an understanding of the features that distinguish the novel as a literary genre: narrative structure, point of view, character development, setting, theme, style, imagery and symbol. This course is designed for students interested in learning more about literary expression and students intending to major in a literary or arts-related field of study. This course is intended for students eligible for the honors program.

3 Units

54 Lecture hours

LIT 141

Introduction to Poetry

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 variety of approaches to poetry. 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 142

Introduction to Shakespeare

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 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 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. This course is intended for students eligible for the Honors Program.

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: 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 discus-

sions 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 143H

Exploring Authors Honors

Prerequisite: ENGL 101 with a "C" or better

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This one-unit course is designed for students who would like the opportunity to study the literary works of one author in depth. Students will compare and contrast the author's works in class discussions and in essay form. Students should consult the class schedule for the author selection as it varies each semester. This course may be taken once and repeated two times for credit. This course is designed for students eligible for the Honors Program.

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 grade of "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.

3 Units

54 Lecture hours

LIT 146BH (C-ID ENGL 165)

British 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 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 plays from representative literary periods and dramatists such as Sophocles, Christopher Marlowe, Moliere, Chekhov, Tennessee Williams, Samuel Beckett, Susan Glaspell, Lorraine Hansberry, Arthur Miller, Luis Valdez, August Wilson, and/or others chosen by the instructor. 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; READ 023 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.

3 Units

54 Lecture hours

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 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 162 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 Baldrige award criteria, and an introduction to statistical process control.

3 Units**54 Lecture hours**

MANAGEMENT

Division of Business

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 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 factor, 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

The course covers the principles of effective writing in business. Extensive experience is provided using the different forms of business writing: memorandums, letters, reports, and resumes. Cultural differences and their impact on communicating in business will be studied. This course

is designed for students pursuing careers in business.

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 125

Managerial Computer Applications

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment; MGMT 101
Transfers to: CSU

This course provides students with an introduction to computer technology as it applies to the business management environment. Course curriculum has been designed to prepare managers to leverage current technology, in both theory and application, to meet the needs of the global business environment. Managerial issues and ethical standards are explored along with web-based hands-on modules which prepare students to become proficient in MS Word, MS Excel, and MS PowerPoint.

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 majors 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 course is designed to provide students who want to start or expand their own import and export business or professionals who seek to enter their career advancement and to do business overseas successfully. The course covers major practical applications, from understanding the objectives of parties involved in importing and exporting to the basics of letters of credit, packaging, transporting and shipments, role of banks and freight forwarders, foreign currency management, and documents used in international trade.

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 an understanding of leadership principles. The course explores the differences between leadership and management, the approaches used to define leadership, and methods used to assess leadership behavior. Various instruments for assessing leadership are examined and discussed. Other topics examined include leadership in teams and leadership of change initiatives.

3 Units

54 Lecture hours

MGMT 160**Principles of Project Management**

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment; MATH 030 or MATH 030D or MATH 033; CIT 101
Transfers to: CSU

This course develops the project management skills needed to define, plan, lead, monitor, and complete projects in any type of industry. Specific topics include managing project integration, scope, time, cost, quality, human resources, communications, risks, and procurement. In addition, the five phases of a project are explored; initiating, planning, executing, controlling, and closing. This course is intended for professionals who want to learn or improve the skills of project management.

3 Units

54 Lecture hours

MGMT 162**Project Cost & Schedule Management**

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. Time, cost, and budget estimates are the basis for project control. This course explores the tools and techniques used to estimate project tasks, costs, and resources, and monitor performance against those estimates over the life of the project.

2 Units

36 Lecture hours

MGMT 164**Project Risk Management**

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. Managing project risk depends upon developing an understanding of the sources of problems in projects, and then working to minimize threats and maximize opportunities wherever feasible. This course explores the tools and techniques used to plan risk management, identify risks, 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 (C-ID BUS 115)**Business Communications**

Prerequisite: ENGL 101 with a grade of "C" or better
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 Associate in Science in Business Administration for Transfer Degree.

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 and is facilitated by the use of learning objectives. The student will be working in a skilled or professional level assignment in their area of vocational interest and will meet performance objectives related to instruction that are above and beyond the conditions of regular employment. This course is intended for students whose job is related to the field of Business Management and have completed or enrolled in the appropriate coursework. "Contact the CWE office regarding re-enrollment procedures."

Student Unpaid Internship:

1 Unit/60 hours; 2 Units/120 hours; 3 Units/180 hours; 4 Units/240 hours

Student Paid Internship:

1 Unit/75 hours; 2 Units/150 hours; 3 Units/225 hours; 4 Units/300 hours.

1 to 4 Units

3 Lecture hours

60 to 300 Other hours

MGMT 299**Directed Study: Management**

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 162 Lab 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 guerilla marketing and advertising techniques. Topics for discussion will include marketing plan strategies, marketing research, marketing channel management, retail and pricing strategies, and cost-effective guerilla 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 022 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 022 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

MATHEMATICS

Division of Mathematics & Sciences

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 percent. 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). Modularized courses in the MSC must be taken sequentially over a maximum period of 24 months. 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 030

Prealgebra

Prerequisite: MATH 020 or MATH 020C 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 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: MATH 030A, 030B, 030C, and 030D in the Math and Science Center (MSC) or online. Modularized courses in the MSC must be taken sequentially over a maximum period of 24 months.

4 Units

72 Lecture hours

MATH 030A

Prealgebra A

Prerequisite: MATH 020 or MATH 020C 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 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 grade of "C" or better

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 030C

Prealgebra C

Prerequisite: MATH 030B with a grade of "C" or better

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 030D

Prealgebra D

Prerequisite: MATH 030C with a grade of "C" or better

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 033

Mathematical Foundations

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

This course combines topics from both Basic Math and Prealgebra, including operations with whole numbers, integers, fractions, decimals, rates, ratios, and proportional thinking, percent problems and applications to percents, and an introduction to algebraic thinking using fundamental principles of expressions and solving linear equations. This course serves as a foundational course for all students.

5 Units

90 Lecture hours

MATH 049 Introduction to MESA

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This standalone one-unit course is designed for students entering the Mathematics, Engineering, Science Achievement (MESA) and/or TRIO Student Support Services STEM Program. The course will introduce the student to the Science-Technology-Engineering-Mathematics (STEM) career paths, transfer and graduation requirements, effective STEM study skills, priority and time management, as well as the importance of participating in internships and appropriate extracurricular activities. Students are expected to be concurrently enrolled in at least one mathematics or science course in order to apply skills covered in this course.

1 Unit
18 Lecture hours

MATH 050 Elementary Algebra

Prerequisite: MATH 030 or MATH 030D or MATH 033 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. Topics include: numbers and their properties, operations with real numbers, exponents, solutions and graphs of linear equations, slopes of lines, systems 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: MATH 050A, 050B, 050C, and 050D in the Math and Science Center (MSC) or online. Modularized courses in the MSC sections must be taken sequentially in the MSC over a maximum period of 24 months.

4 Units
90 Lecture hours

MATH 050A Elementary Algebra A

Prerequisite: MATH 030 or MATH 030D or MATH 033 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 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

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

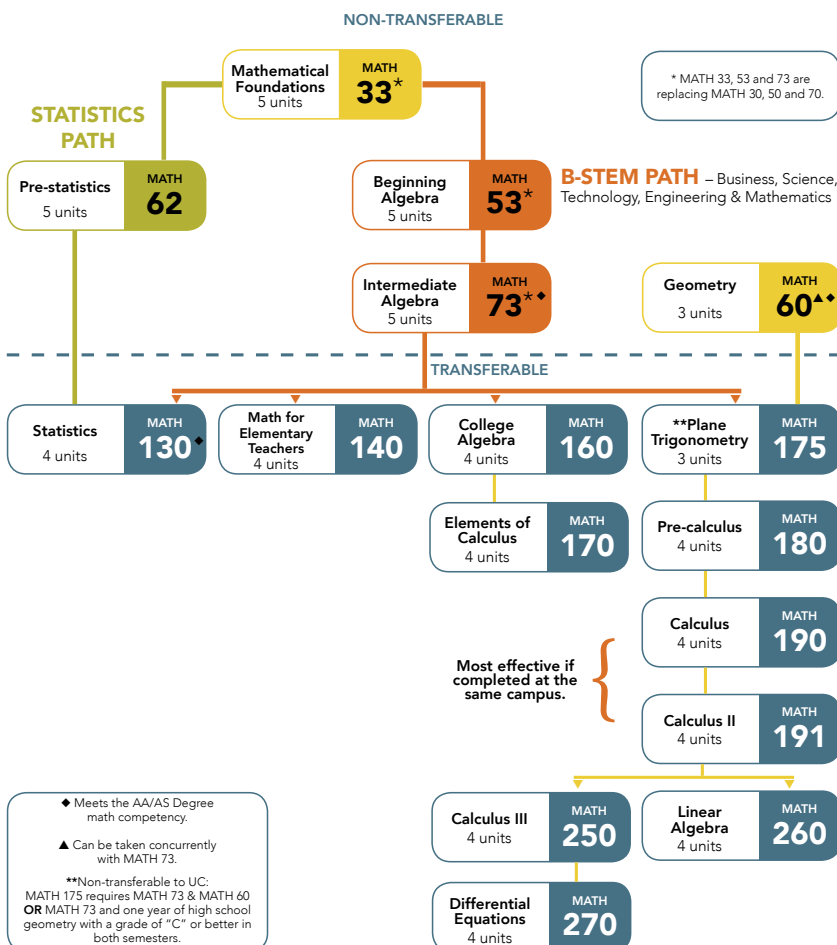
Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment



RIO HONDO COLLEGE

MATH PATHWAYS

It is very important to consult with a counselor before choosing a path.
Initial math course is determined by a placement assessment process.



MC/04.03.17

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

B-STEM Elementary Algebra

Prerequisite: MATH 030 or MATH 030D or MATH 033 with a grade of "C" or better or appropriate assessment
Advisory: ENGL 030 or ENLA 034 or appropriate assessment

This course is designed for students who need to learn the fundamentals of algebra. It is designed primarily for students who plan to major in Business, Science, Technology, Engineering, or Math (B-STEM). 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.

5 Units

90 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

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 062

Pre-Statistics

Prerequisite: MATH 030 or MATH 030D or MATH 033 or appropriate assessment
Advisory: ENGL 030 or ENLA 034 or appropriate assessment

This course surveys a variety of mathematical topics needed to prepare students for college-level sta-

tistics. Topics include: data analysis using ratios, rates, and proportional reasoning, graphical and tabular displays of data, measures of central tendency and spread, computing probabilities, describing associations of two variables graphically, graphing equations of lines and linear models, and solving linear equations and inequalities. Pre-Statistics is designed for students in majors, such as those in liberal arts, humanities, and social sciences. It should not be taken by students majoring in science, technology, engineering, math or business. This course does not provide credit for Intermediate Algebra.

5 Units

90 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 035 or ENLA 100 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. This course is a study of linear and quadratic equations and inequalities, systems of linear equations, polynomials, exponents and radicals, relations and functions, graphs of functions, exponential and logarithmic expressions and their applications. Students may enroll in MATH 070 in a lecture section for four units of credit or in individual one-unit modules: MATH 070A, 070B, 070C, and 070D in the Math and Science Center (MSC) or online. Modularized courses in the MSC must be taken sequentially over a maximum period of 24 months.

4 Units

90 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 035 or ENLA 100 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
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
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
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 073

B-STEM Intermediate Algebra

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

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 transfer-

able course. It is designed primarily for students who plan to major in Business, Science, Technology, Engineering, or Math (B-STEM). This course consists of topics including 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.

5 Units

90 Lecture hours

MATH 130 (C-ID MATH 110)

Statistics

Prerequisite: MATH 062 or 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.

4 Units

72 Lecture hours

MATH 130H (C-ID MATH 110)

Statistics Honors

Prerequisite: MATH 062 or 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 (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 140

Mathematics for Elementary Teachers

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 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 141

Mathematics for Elementary Teachers

Prerequisite: MATH 060 and MATH 140 with a grade of "C" or better

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

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 (C-ID MATH 150)

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, absolute value, quadratic, polynomial, power, radical, rational, 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 (C-ID MATH 140)

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, applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions, multi-variable derivatives and differential equations.

4 Units

72 Lecture hours

MATH 175 (C-ID MATH 851)

Plane Trigonometry

Prerequisite: MATH 060 and 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. It equips students with the skills necessary for success in precalculus. This course presents the concepts of plane trigonometry using a functions approach. Included is a study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, polar coordinates, and an introduction to vectors.

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, MATH 900S)**Calculus I**

Prerequisite: MATH 180 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 170, MATH 190 or MATH 190H)

MATH 190 is a semester course designed primarily for those students planning to pursue programs in engineering, mathematics, computer science, and physical sciences. This is the first course in differential and integral calculus of a single variable. It includes topics in functions, limits and continuity, techniques and applications of differentiation and integration, and the Fundamental Theorem of Calculus.

4 Units

90 Lecture hours

MATH 190H (C-ID MATH 210)**Calculus I Honors**

Prerequisite: MATH 180 with a grade of "C" or better or appropriate assessment; 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

is the first course in differential and integral calculus of a single variable. It includes topics in functions, limits and continuity, techniques and applications of differentiation and integration and the Fundamental Theorem of Calculus.

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, applications of the definite integral, differential equations, Taylor polynomials, series, polar equations and parametric equations. This course is the second course of the calculus sequence required of 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. This course also includes a study of vector calculus topics, such as line and surface integrals, Green's Theorem, Stokes' Theorem, and the Divergence Theorem. This is the third course of the calculus sequence required of engineering, physics, and mathematics majors.

4 Units

90 Lecture hours

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

Eigenvalues, 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 162 Lab hours

MUSIC

Division of Arts & Cultural Programs

MUS 101 (C-ID MUS 110) Fundamentals of Music

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This is a course 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 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 study the basic materials of harmony and musicianship: scales, keys, intervals, chords, chord connections, part writing, and inversions. Also included is 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 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 study the harmonic practices of the eighteenth and nineteenth centuries. Advanced stages of chromaticism which includes tonicization, 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 diatonism, advanced chromaticism, modal mixture, real and tonal sequences, and advanced modulation.

3 Units

54 Lecture hours

MUS 106 (C-ID MUS 125)

Beginning Musicianship I

Prerequisite: MUS 101 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 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 109

Contemporary Theory:

Popular and Jazz Harmony

Prerequisite: MUS 101

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

This course is designed for the student who wants to learn the basic concepts associated with constructing chords, the song forms, and the melodies that are identified with Popular and Jazz styles in contemporary music.

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 orchestral music. It provides players an opportunity to develop their own musical capabilities as well as participating 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 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

Concert Choir 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 121

Gospel Choir

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment; MUS 120
Transfers to: CSU

Gospel choir is a college chorus of mixed voices dedicated to the study, rehearsal, and public performance of anthems, spirituals, and gospel (traditional/contemporary) music. It is designed for the student seeking to learn the fundamentals of singing in the African-American contemporary gospel style. This class provides for the learning of the fundamentals of choral singing. Performances both on and off campus will assist in the development of skills necessary for proficiency.

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, Puerto Rico 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; READ 023 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

Chamber Singers

Prerequisite: MUS 120 and audition
Advisory: ENGL 035 or ENLA 100 or 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 requires an audition.

2 Units

27 Lecture hours

27 Lab hours

MUS 139**Advanced Concert Choir**

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 141**History of Rap Music and Hip Hop Culture**

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course will explore the roots of rap music and hip-hop culture from its African bardic tradition to African-American expressive/oral traditions. In addition, it will locate rap in the context of hip-hop and as a part of a continuum of American popular music. This course is designed for the student who seeks to expand their knowledge of rap music and the hip hop culture.

3 Units

54 Lecture hours

MUS 142**Intermediate Voice I**

Prerequisite: MUS 140 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 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 145**Beginning Piano I**

Advisory: READ 023 or appropriate assessment

Transfers to: UC, CSU

This class is for the student interested in beginning piano skills, and in the understanding of music through the study of simple piano pieces. The development of skills at the beginning level may be used in the playing of various styles including Classical, Pop, Jazz and Rock. Individual pieces are performed in class. No previous experience is necessary.

1.5 Units

18 Lecture hours

27 Lab hours

MUS 146**Beginning Piano II**

Advisory: READ 023 or appropriate assessment

Prerequisite: MUS 145 with a "C" or better

Transfers to: UC, CSU

This class is for the student interested in beginning piano skills, and in the understanding of music through the study of simple piano pieces. The development of skills at the beginning level may be used in the playing of various styles including Classical, Pop, Jazz and Rock. Individual pieces are performed in class. This course is a continuation of materials learned in Beginning Piano I.

1.5 Units

18 Lecture hours

27 Lab hours

MUS 147**Intermediate Piano I**

Advisory: READ 023 or appropriate assessment

Prerequisite: MUS 146 with a grade of "C" or better

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 148**Intermediate Piano II**

Advisory: READ 023 or appropriate assessment

Prerequisite: MUS 147 with a grade of "C" or better

Transfers to: UC, CSU

This course is designed for students seeking to broaden their knowledge and understanding of piano literature. More advanced solo literature of intermediate difficulty will be introduced. Emphasis is placed on the technical and interpretive demands required to perform a varied repertoire.

1.5 Units

18 Lecture hours

27 Lab hours

MUS 150**Beginning Guitar**

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 beginning guitar skills and in the understanding of music through the study of simple guitar pieces. The development of skills at the beginning level may be used in the playing of various styles including Classical, Pop, Jazz, Rock and Blues. No previous musical experience is necessary.

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; READ 023 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 requires 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 Garage 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 grade of "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.

3 Units**36 Lecture hours****54 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 requires successful completion of MUS 158 and an audition.

2 Units**27 Lecture hours****27 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****MUS 181 (C-ID MUS 160)****Applied Music I***Prerequisite:* Audition*Corequisite:* Enrollment in a Rio Hondo College Large Ensemble (either MUS 116 or MUS 117 or MUS 120 or MUS 134 or MUS 138 or MUS 139)*Advisory:* ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment*Transfers to:* UC, CSU

This course offers individual instruction in voice, piano, guitar, band or orchestral instruments with an assigned instructor. Emphasis will be placed on study at the beginning level of technique and repertoire. Weekly, it includes one recital class, and one individual lesson. Performance for a faculty jury will be required at the end of the semester.

2 Units**27 Lecture hours****27 Lab hours****MUS 216****Advanced Music Ensemble for Diverse Instruments I***Prerequisite:* MUS 117*Transfers to:* UC, CSU

This course is designed for the advanced electric, acoustic instrumental, and vocal students to broaden their abilities to perform in an ensemble. The course 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 217
Advanced Music Ensemble for Diverse Instruments II

Prerequisite: MUS 216

Transfers to: UC, CSU

This course is designed for the advanced electric, acoustic instrumental, and vocal students who want to interpret and perform ensemble repertoire at a professional level. The course 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 220
Concert Choir II

Prerequisite: MUS 120

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

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
Advanced Chamber Singers

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 includes an audition and successful completion of MUS 134. This course may be taken once and repeated three times for credit.

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 per-

formance. 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; READ 023 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; READ 023 or appropriate assessment

Transfers to: UC, CSU

This advanced level course is designed for students who wish to improve their technique and skills by performing more difficult works. It is essentially a continuation of MUS 251, Advanced Guitar I. The scales, chord progressions, pieces and etudes assigned will be selected to advance the student's technique, and repertoire from various periods and styles.

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; 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 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 Other 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 162 Lab hours

NUTRITION SCIENCE

Division of Health Science & Nursing

NUTR 110

Introduction to Nutrition Science

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 basic knowledge of scientific concepts related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs, dietary guidelines, macronutrients, micronutrients, digestion, absorption, metabolism, health, and disease prevention through a balanced diet. This course is appropriate for nutrition majors and health science majors, including nursing.

3 Units

54 Lecture hours

NUTR 120

Principles of Foods with Lab

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed for students majoring in nutrition to learn the application of food science principles with emphasis on ingredient function and interaction, food preparation, food preparation techniques, sensory evaluation standards, food safety and sanitation, and nutrient composition of food.

3 Units

45 Lecture hours

27 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 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: 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 015

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: internal combustion engine theory and servicing the fuel, lubricating, and governing systems of gasoline and diesel engines.

2 Units

36 Lecture hours

36 Lab hours

OENG 016

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 include: clutches, mechanical transmissions, differentials, final drives, crawler tractor undercarriage, and crawler tractor track assemblies.

2 Units

36 Lecture hours

36 Lab hours

OENG 021

Grades and Plans

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 develop the ability to read grade plans,

establish lines and elevations from previously established control points defined in the grade plans and learn how to check grade plans.

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 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 Training Trust 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

OENG 290

Work Experience in Operating Engineers Union Apprenticeship

Prerequisite: State Indentured Operating Engineers Union Apprenticeship
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides students the opportunity to work in the Operating Engineers apprenticeship program

for the purpose of developing specific skills to meet the goals and objectives of the Operating Engineers Joint Apprenticeship Council (J.A.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all Work Experience course offerings. Only one Work Experience course may be taken per semester.

1 to 4 Units
3 Lecture hours
75 to 225 Other

ORTHOPEDIC TECHNOLOGY

Division of Health Science & Nursing

ORTH 040

Introduction to Orthopedic Technology

Prerequisite: BIOL 125; ENGL 035 or ENLA 100 or appropriate assessment; *READ 023 or appropriate assessment*
 This course will provide students with an introduction to the roles, professional responsibilities, code of ethics, and employment qualifications of an Orthopedic Technician. Instruction will also include the review of the musculoskeletal system as it relates to the field of orthopedic technology emphasizing locomotor, neuromuscular and peripheral vascular structures.

4 Units
72 Lecture hours

ORTH 050

Orthopedic Technician Health Assessment

Prerequisite: ORTH 040
 This course will provide the student with entry-level abilities to function as an Orthopedic Technician. Students will receive instruction in the physical examination of the extremities, spine and pelvis. Instruction will include joint range of motion, specific muscle group testing and measuring the locomotor system.

3 Units
45 Lecture hours
27 Lab hours

ORTH 060

Orthopedic Technician Modalities

Prerequisite: ORTH 050
 This course will provide the student with entry-level abilities to function as an Orthopedic Technician in the private practice, hospital and managed care facilities. Students will receive instruction in back office skills focusing on casting, splinting, application of soft goods, wound care management, client communication and surgical assisting in major and minor orthopedic procedures. The

student will learn operating room etiquette, gowning, gloving, sterile back table set up for categories 1, 2 and 3 orthopedic procedures. Instruction will include seminars, demonstrations and physical examinations, hands on casting and splinting applications, surgical gowning and gloving and assisting in major orthopedic procedures.

4 Units
36 Lecture hours
108 Lab hours

ORTH 070

Orthopedic Technician Practicum

Prerequisite: ORTH 060

This course will provide the student with entry-level abilities to function as an Orthopedic Technician. Students will participate in clinical and hospital rotations consisting of instruction in back office skills to include casting, splinting, application of soft goods, wound care management, client communication, sterile technique, operating room etiquette, gowning, gloving, and sterile back table set-up for category 3 major procedures.

4 Units
18 Lecture hours
162 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.

2 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 philosophi-

cal 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 110H

Critical Thinking Honors

Prerequisite: ENGL 101 with a grade of "C" or better

Advisory: READ 023 or appropriate assessment

Transfers to: 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. This course is intended for those who meet Honors Program Requirements.

3 Units
54 Lecture hours

PHIL 112 (C-ID PHIL 110)**Introduction to Logic**

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 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 112H**Introduction to Logic 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: 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. This course is intended for those who meet Honors Program requirements.

3 Units

54 Lecture hours

PHIL 115 (C-ID PHIL 210)**Symbolic Logic**

Advisory: READ 023 or appropriate assessment; PHIL 101 or PHIL 101H; PHIL 112

Transfers to: UC, 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 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 and values, representative ethical theories, and may include their applications to moral problems.

3 Units

54 Lecture hours

PHIL 124 (C-ID PHIL 130)**History of Philosophy: Ancient**

Advisory: ENGL 101 or appropriate assessment; READ 023 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 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 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 128 (same as POLS 128)**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, Libertarian-

ism, Socialism, Communism, as well as conceptions of rights and distributions of goods.

3 Units

54 Lecture hours

PHIL 128H (same as POLS 128H)**Introduction to Political Philosophy Honors**

Prerequisite: ENGL 101 with a grade of "C" or better

Advisory: READ 023 or appropriate assessment

Transfers to: 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. This course is designed for students who meet Honor's Program requirements.

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 course is intended for all students interested in applying methods of philosophy to contemporary topics which may include, but are not limited to: war/terrorism, sex work, cloning, euthanasia, suicide, philosophical issues pertaining to race or gender, genetic engineering, illicit drug use, business ethics, or artificial intelligence.

3 Units

54 Lecture hours

PHIL 140**Philosophy of Religion**

Advisory: ENGL 101 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This introductory level course is intended for all students seeking a thoughtful exploration of religious issues in a non-sectarian context, or as part of a broader program of philosophical study. We will address Western religion from a philosophical perspective, including arguments for and against the existence of God, and an investigation into the status of religious beliefs. Additional topics

may include a consideration of the evolution-creationism debate, and a discussion of religious pluralism.

3 Units

54 Lecture hours

PHIL 299

Directed Study: Philosophy

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 162 Lab hours

PHIL 325

Applied and Professional Ethics

Prerequisite: ENGL 201 or ENGL 201H, and PHIL 101 or PHIL 101H or PHIL 120 (both with a grade of "C" or better)

This upper division General Education course is designed for students pursuing a Bachelor of Science degree in Automotive Technology but it is also open to all students who have successfully completed the prerequisites. This course is intended for students who seek a greater understanding of the relationship between ethics and human living. This course will expose them to the moral and ethical views in the Western philosophical tradition. Students will then apply these views to various contemporary issues. Expected topics include: business ethics, euthanasia,

terrorism, public policy, the death penalty, and issues in science and technology.

3 Units

54 Lecture hours

PHOTOGRAPHY

Division of Arts & Cultural Programs

PHTO 185

Introduction to Digital Photography

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

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

Advisory: READ 023 or appropriate assessment; ART 120

Transfers to: UC, CSU

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

Transfers to: UC, CSU

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 concep-

tual 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 290

Medium and Large Format Photography

Prerequisite: PHTO 190

Advisory: READ 023 or appropriate assessment

Transfers to: CSU

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 using medium and large format films and cameras in a traditional wet lab environment. Special emphasis is given to the understanding and analysis of photographic imagery.

2 Units

18 Lecture hours

54 Lab hours

PHTO 292

Digital Photography

Prerequisite: PHTO 185 or PHTO 190

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is designed for students who have successfully completed PHTO 190 and have a working knowledge of basic camera controls and photographic composition. It will cover use of digital cameras, image editing and manipulation, digital printing, and the expression of ideas through digital photographs. Students are required to supply their own digital camera.

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, 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 162 Lab hours

PHYSICS

Division of Mathematics & Sciences

PHY 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: UC (credit limit*), CSU (*Students will receive 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

PHY 150 (C-ID PHYS 100S, PHYS 105) 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: 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 first of a two-semester sequence and is designed for students transferring to a four-year institution and planning careers in health professional fields such as medicine, dentistry, veterinary science, pharmacy, and optometry as well as those students in engineering technology and architecture. 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 kinematics, dynamics, energy, work, momentum, conservation principles, rotational motion, simple harmonic motion, fluids, and thermodynamics.

4 Units
54 Lecture hours
54 Lab hours

PHY 160 (C-ID PHYS 100S, PHYS 110) General Physics - II

Prerequisite: PHY 150 with a grade of "C" or better
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 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 electricity and magnetism, oscillations, waves, optics, and modern physics.

4 Units
54 Lecture hours
54 Lab hours

PHY 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: 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 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

PHY 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: UC (credit limit*), CSU (*Students will receive credit from UC for one physics series: PHY 150 and 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 sciences and engineering. Topics covered include quantum physics, physical optics, and thermodynamics.

4 Units
54 Lecture hours
54 Lab hours

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 220

Unmanned Rocket Science

Prerequisite: CIT 125 or CIT 135
Corequisite/Prerequisite: PHY 213
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment
Transfers to: CSU

This course introduces students to the creation and implementation of payloads and unmanned flight vehicles. The payloads and unmanned vehicles such as rockets, balloons and unmanned aerial vehicles (drones) collect inflight atmospheric data that are later analyzed and presented.

3 Units
36 Lecture hours
54 Lab hours

PHY 299**Directed Study in Physics**

Advisory: PHY 150 or 160 or 211 or 212 or 213

Transfers to: UC, CSU

The course provides an opportunity for the student to expand their studies in Physics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 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 (POST).

24 Units

772 Lecture hours

163 Lab hours

PAC 042**Police Supervision**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 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, communication and techniques of training are presented. This course is certified by the Commission on Peace Officer Standards and Training (POST).

4.5 Units

81 Lecture hours

PAC 043**Advanced Officers Course**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; PAC 040 or PAC 075B, 075C, 075D

This course is designed for upgrading currently employed law enforcement personnel. The curriculum follows that recommended by the Commission of Peace Officer Standards and Training. The course is designed to keep peace officers informed of new laws, recent court decisions, current enforcement procedures, new concepts in law enforcement, technology, community relations and other refresher training as may be necessary.

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.

6 Units

102 Lecture hours

18 Lab 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 appropriate assessment; READ 023 or appropriate assessment

This course is designed for those interested in becoming a Level III Reserve officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, vehicle operations, report writing, first aid/CPR, cultural diversity, and other related police topics. It is the level of training which satisfies the legal requirements for a Level III Reserve officer.

6 Units

72 Lecture hours

112 Lab hours

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, community relations, report writing, cultural diversity, and other related police topics. It is training which satisfies the legal requirements for a Level II Reserve officer.

8 Units

90 Lecture hours

162 Lab hours

PAC 075D**Basic Police Recruit Class - Level I Module**

Prerequisite: Successful completion of PAC 075B and PAC 075C or POST Modules III and II, current (within last 3 years) in PC 832 Arrest and Firearms training requirements, passage of the POST-constructed Comprehensive Module II 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 I Reserve officer or a regular peace officer. This course covers criminal law, evidence, investigations, firearms, arrest and control, emergency vehicle operation, and other related police topics. It is the final level of training which constitutes satisfaction of the Regular Basic Course training requirement and the legal requirements for a Level I Reserve officer.

8 Units

162 Lecture hours

232 Lab hours

PAC 078**Requalification - Basic Course**

Prerequisite: Successful completion of a California POST Basic Police Academy; 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 enforce-

ment 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.

5.5 Units
96 Lecture hours
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 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 effect 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 43032

Physical Fitness

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 physical fitness techniques, current Federal and State laws and recent requirements which affect current law enforcement procedures. Physical Fitness for officer development presents new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by the California Commission on Peace Officer Standards and Training.

0.074 to 1.48 Units
2 to 40 Lecture hours
2 to 40 Lab hours

PAC 43035

Firearms

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 Firearms Techniques, current Federal and State laws and recent requirements which affect current law enforcement procedures. Firearms for Officer Development present new concepts in law enforcement procedures. The curriculum follows that recommended as refresher training by California Commission on Peace Officer Standards and Training.

0.1 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 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 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 encour-

aging 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 side 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 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 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/Arrest 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 Techniques course which covers community relations, communications, report writing, arrest control and personal searches. This course can be taken alone or in combination with PAC 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

POLITICAL SCIENCE

Division of Behavioral & Social Sciences

POLS 110 (C-ID 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 (C-ID POLS 120)

(same as PHIL 128)

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, Libertarian-

ism, Socialism, Communism, as well as conceptions of rights and distributions of goods.

3 Units

54 Lecture hours

POLS 128H (same as PHIL 128H)
Introduction to Political Philosophy
Honors

Prerequisite: ENGL 101 with a grade of "C" or better

Advisory: READ 023 or appropriate assessment

Transfers to: 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. This course is designed for students who meet Honor's Program requirements.

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 or 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."

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 Other 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 3.0 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 162 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, Erickson, 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 121

Drugs, Society, and Behavior

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

This course is for the student who seeks a basic understanding of the effects of drugs of abuse and an in-depth consideration of the societal aspects of psychoactive drugs. It is designed for those students interested in furthering their understanding of psychoactive drugs and those interested in working with populations recovering from or at risk for drug

problems. Current and historical uses of and attitudes towards drugs will be addressed, as well as drug use disorders, drug legislation, and treatment options. Societal and cultural differences will also be noted.

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 170

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 MATH 110, 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

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 162 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: 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: 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 pro-

grams 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

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: 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: JOUR 147

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 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 Other hours

RDIO 299

Directed Study: Radio

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 162 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 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 support 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

Academic Success and Lifelong Learning

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This comprehensive course is designed for students to acquire reading and study strategies for college success and lifelong learning. Outcomes include the knowledge of applicable educational learning theories as well as psychological and physiological tools that promote self-development in learning. Specific topics consist of reading print versus digital texts, critical thinking, lecture and textbook note taking, metacognitive strategies, test preparation, time management, and to aid the student in achieving academic and lifelong goals.

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 appropriate assessment; MATH 030 or MATH 030D or MATH 033 or appropriate assessment

This is part one of a two-semester Registered Dental Assisting competency based course. This course includes patient care experience in a fully equipped facility. Students who successfully complete the curriculum are qualified to take the California Dental Board examination leading to licensure as a Registered Dental Assistant. At completion of the program, the student will be certified by the state of California to take dental x-rays. Students who are interested in the dental field are encouraged to take this course.

12 Units
151 Lecture hours
200 Lab hours

RDA 052

Registered Dental Assisting II

Prerequisite: Enrollment in the RDA Program and successful completion of RDA 051 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

This is part two of a two-semester Registered Dental Assisting competency based program. This course includes patient care experiences in a fully equipped facility and a 160 hour preceptor experience. Students who successfully complete the curriculum are qualified to take the California Dental Board examination leading to licensure as a registered Dental Assistant. At the completion of the program, the student will be certified by the state of California to perform coronal polishing and place pit and fissure sealants. Student who are interested in the dental field are encouraged to take this course.

12 Units
100 Lecture hours
356 Lab hours

SOCIOLOGY

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 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, education, politics, economics, and religion; and (4) global issues of population, technology, social movements and social change.

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, education, politics, economics, and religion; and (4) global issues of population, technology, social movements and social change. This course is intended for students eligible for the Honors Program.

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 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

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 may include cultural ideas of gender, gender and the economy, politics, the media, families, and education. This course is designed for students who want to learn more about the social connections of gender and how the importance of gender differences are 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 genesis 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 in Sociology**

Prerequisite: SOC 101

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: UC, CSU

The course provides an opportunity for the student to expand their studies in Sociology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

SOC 325**Analysis of Social Change**

Prerequisite: ENGL 325, SOC 101 or SOC 101H, SOC 102 (all with a grade of "C" or better)

This upper division General Education course is designed for students pursuing a Bachelors of Science degree in Automotive Technology and is open to all students who have successfully completed the required prerequisites. Students will develop a broad understanding of social change within society through the examination of the various social mechanisms that lead to, promote, and eventually incorporate or quell the products and processes of social change. Special attention will be paid to industrialization, globalization, social movements, the implementation and evolution of technology and how social change is shaped by and produces unique social behavior.

3 Units

54 Lecture hours

SPANISH

Division of Communications & Languages

SPAN 101 (C-ID SPAN 100)**Spanish I**

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 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 are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. 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: Completion of SPAN 101 with a grade of "C" or better, or completion of two years of high school Spanish with a grade of "C" or better

Advisory: READ 023 or appropriate assessment; ENGL 035 or ENLA 100 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 a continuation of the study of the essentials of Spanish language: reading, listening, speaking, and writing skills. The skills learned in SPAN 101 will be reviewed.

The class will increase vocabulary, grammar, and cultural knowledge to improve on the reading, listening, speaking and writing skills presented in SPAN 101. In this course the study of verb tenses and constructions is completed. Various facets of Spanish-speaking cultures will be analyzed via cross-cultural comparisons. In addition to classroom discussion, students are required to complete at least 18 hours of intensive individualized oral-aural practice in the Language Laboratory via interactive websites, audio CDs, video programs, and films. The Language Laboratory work focuses on vocabulary, grammar, and cultural practices. The Languages Department as a whole mandates the requirement of 18 hours of independent lab work per semester. 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-speakers 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 (C-ID SPAN 200)**Spanish III**

Prerequisite: SPAN 102 or SPAN 131 with a "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/intended 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 (C-ID SPAN 200)**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 / intended for students who wish to broaden their knowledge in Spanish as well as for those interested in pursuing a degree in the Spanish language. This course is intended for students eligible for the Honors Program.

4 Units

72 Lecture hours

18 Lab hours

SPAN 202 (C-ID SPAN 210)

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 also receive intensive, oral-aural practice in the language laboratory in which websites, video programs, audio CDs, and CD ROMs are used. This course is designed /intended for students who wish to broaden their knowledge of Spanish as well as for those interested in pursuing a degree in the Spanish language.

4 Units

72 Lecture hours

18 Lab hours

SPAN 299

Directed Study: Spanish

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 162 Lab hours

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 every day 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

54 Lecture hours

SPCH 101 (C-ID COMM 110)

Public Speaking

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 101, SPCH 101H or SPCH 102)*

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

54 Lecture hours

SPCH 101H (C-ID COMM 110)

Public Speaking 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: SPCH 101, SPCH 101H or SPCH 102)*

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

54 Lecture hours

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

Transfers to: CSU

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

Transfers to: CSU

This course involves participation in Rio Hondo's Forensic Debate Team. Students research, structure, and present debate cases. Students in this course will improve their ability

to debate at 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

Transfers to: CSU

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

Transfers to: UC, CSU

This communication course focuses on the oral performance of various forms of literature, such as poetry, prose, and drama. The skills needed for making such public performances will be addressed and student knowledge of the various forms of literature will be enhanced. Emphasis is placed on creating the essence of characters in a text through facial, vocal, and kinetic methods. This course is appropriate for speech majors or anyone interested in public performance and literature.

2 Units
54 Lecture hours

SPCH 132
Readers Theatre

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This is a creative communication course focusing on group presentations of literature. Students will perform prose, drama, and/or poetry in groups so that a communicative

message emerges and fosters imaginative responses in the minds of an audience. Emphasis is placed on the fusion between rhetoric, interpretation and acting. Readers Theatre is designed for Speech Communication majors and those interested in literature and performance.

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 150 (C-ID COMM 150)
Intercultural Communication

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course is an introduction to intercultural communication. The emphasis is on applying intercultural theories and concepts to understand the influence of cultural membership upon the communicative situation. Students completing this course will improve their intercultural communication competence. This course is recommended for students in all fields; particularly Communication Studies majors and students who anticipate high interaction with people from diverse cultures.

3 Units
54 Lecture hours

SPCH 240 (C-ID COMM 190)
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 partic-

ipation, 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 discipline. 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: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 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 Industry**

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course is for all students interested in pursuing certificates, degrees

and careers related to manufacturing, welding, and drafting technologies. The course presents an introduction to the use of engineering documents or blueprints as used in industrial applications and focuses on interpreting and visualizing technical drawings in order to read and understand "The Language of Industry." Principles of reading drawings, specifications, projection principles, working drawings, details, assemblies, and pictorial representations are examined and discussed. The course is also helpful for apprentices and employees in all areas of technology including planning, purchasing, machine trades, welding/fabrication, future engineers, and inspection.

2 Units

27 Lecture hours

27 Lab hours

TCED 299**Directed Study in Technical Education**

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Technical Education beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 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, story boarding, 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
54 Lab hours

THEATRE

Division of Arts & Cultural Programs

THTR 101 (C-ID THTR 111, THTR 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, playwrighting, 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

THTR 105H (C-ID THTR 113) The History and Development of the Theatre 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: THTR 105 or THTR 105H)*

This course is designed for the student with an interest in history of the 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. 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

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 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 theatre games and exercises culminating in the presentation of scenes from contemporary dramatic literature.

3 Units
36 Lecture hours
54 Lab hours

THTR 111 (C-ID THTR 152) Principles of Acting

Prerequisite: THTR 110

Transfers to: UC, CSU

This course is for the student who wants to continue the exploration of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through exercises, character analysis, monologues, and scenes.

3 Units
36 Lecture hours
54 Lab hours

THTR 112 Acting for the Camera

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 acting techniques for film, television and commercials. The class will explore the styles, language and technical demands of

each medium. Slating, voice, blocking & memorizing will be covered along with Career advice such as photos and resumes, agents, unions, auditioning & showcases. Students will work with the camera and review the results to develop their skills.

3 Units
36 Lecture hours
54 Lab hours

THTR 150 (C-ID THTR 171) Theatre Crafts I

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: UC, CSU

The course is designed for the student who wishes to gain a basic understanding of the technical phases of scene production including construction, painting, rigging, placement and manipulation of stage scenery, lighting equipment, sound equipment, properties and wardrobe as well as the organization and management of stage activity and stagecraft terminology. The student will study the aesthetics and practical application principles of stage scenic, sound and lighting design. Students are assigned a specific crew responsibility that directly relates to a college theatre production.

3 Units
18 Lecture hours
108 Lab hours

THTR 151 Theatre Crafts II

Prerequisite: THTR 150

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 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 022 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 or 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 (C-ID THTR 173)**Stage Lighting**

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or appropriate assessment

Prerequisite: THTR 101 or THTR 110 or THTR 150 or THTR 170 or THTR 171 or THTR 180

Transfers to: UC, CSU

The 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 automated 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 150

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 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 164**Theatre Production Lab**

Corequisite: THTR 150

Advisory: READ 022 or appropriate assessment

Transfers to: CSU

This class is intended for students interested in exploring a career in entertainment production. The course provides a hands-on introduction to all aspects of entertainment production, including scenery, lighting, audio, costumes and properties. The student will learn the fundamentals of constructing, painting and rigging scenery, hanging and focusing lighting equipment, setting up audio systems and/or building costumes or props for the performing arts programs at Rio Hondo College.

1 to 2 Units

54 to 108 Lab hours

THTR 165**Intermediate Theatre Production Lab**

Prerequisite: THTR 164

Corequisite: THTR 151

Transfers to: CSU

This class is intended for students interested in careers in entertainment production. The course builds upon the basic skills acquired in THTR 164, with more sophisticated tasks and greater responsibilities in scenic construction, painting and rigging, stage lighting operations, stage audio systems and/or costume shop assignments for the performing arts programs at Rio Hondo College.

1 to 2 Units

54 to 108 Lab hours

THTR 166**Advanced Theatre Production Lab**

Prerequisite: THTR 165

Corequisite: THTR 152

Transfers to: CSU

This class is intended for students pursuing careers in entertainment production. The course builds upon the skills acquired in THTR 165, providing leadership roles in scenic construction, painting and rigging, stage lighting operations, stage audio systems and/or costume shop assignments for the performing arts programs at Rio Hondo College.

1 to 2 Units

54 to 108 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, man-

agement, 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: UC, 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, dramaturg, etc. Auditions will determine most of the specific assignments.

3 Units

18 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 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 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 expand the skills and concepts acquired in THTR 180 regarding the rigorous requirements of touring a theatre production, including acting, directing, scenic design, management, lighting, construction and maintenance of 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 186

Touring Theatre: The American College Theatre Festival

Prerequisite: THTR 170, THTR 172, THTR 173, or THTR 175

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 022 or

appropriate assessment

Transfers to: UC, CSU

This class is for the student who wants to compete against students at other colleges for theatre scholarships and recognition. It is open to those who have been nominated for an Irene Ryan scholarship, a Design, Stage Managing, Directing or Playwriting award or have been chosen as a partner or are part of an officially invited production or scene. The first part of the class the student will prepare for the competition and the last part of the class will be the trip to the festival. Usually in the 2nd week of February, the festival takes place in either California, Arizona, Utah, Nevada or Hawaii. At the festival the student will compete in their nominated area, see invited plays, audition for plays and attend a variety of workshops under the supervision of the instructor. This course may be repeated three times for credit.

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

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, on line 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 II

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 Other hours

THTR 299

Directed Study: Theatre

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 162 Lab hours

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 precollegiate-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

VOCB 101

Vocabulary & Etymology

Prerequisite: ENGL 035 or ENLA 100 or appropriate assessment; READ 022 or appropriate assessment

Transfers to: CSU

This course offers the student an opportunity to develop a college level vocabulary. The course emphasizes an understanding of the etymology, definition, and usage of words so that students gain a comprehensive understanding of the meanings of words and how they are used. Additionally, students will study general and specialized terms used in courses across the curriculum. In order to internalize word meanings successfully, students will work in individual, small group, and whole class settings.

3 Units

54 Lecture hours

VOCATIONAL NURSING

Division of Health Sciences & Nursing

VN 061

Basic Fundamentals of Nursing

Prerequisite: HS 060; PSY 101

Corequisite: VN 061L

This course is designed for the entry level vocational nursing student with a focus on the nursing process and its application in medical/surgical settings. The role of the Licensed Vocational Nurse in providing care for patients in a variety of situations is discussed. This course is open to students enrolled in the Vocational

Nursing program and is required for Vocational Nursing licensure.

3.5 Units

63 Lecture hours

VN 061L

Basic Fundamentals of Nursing Laboratory

Prerequisite: HS 060; PSY 101

Corequisite: VN 061

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

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

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 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

VN 073

Basic Pharmacology

Prerequisite: VN 061 with a grade of "C" or better and VN 061L with a grade of "Pass"

Advisory: HS 045 and READ 023 or appropriate assessment

This is an introductory course of basic techniques and computations used in the administration of medications. Completion of the course prepares the student to safely administer medications to patients under the supervision of the nursing instructor. This course is open to students enrolled in the Vocational Nursing Program and is required for the Vocational Nursing Licensure.

2 Units

36 Lecture hours

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 081L

Maternal and Pediatric Nursing Lab

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 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 082L

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 083

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 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

Basic Electric Arc Welding

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 a basic level of welding processes and further their skills in manual and semi-automatic electric arc welding methods and techniques. This course emphasizes skills in Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW). The course also focuses on safety, theory, characteristics and settings for power supplies and welding units, electric current settings, electrode identification and selection, welding positions, and welding of ferrous and non-ferrous metals. Special emphasis will be placed on developing proficiency and speed for high-volume production applications.

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 focused on welding techniques used in high-volume production manufacturing environments. Students gain proficiency using pulsed-arc and non-pulsed-arc GMAW and GTAW processes on carbon steel, stainless steel, and aluminum materials. Correct use of welding fixtures, positioners, and other auxiliary equipment are covered. Emphasis is placed on using shop safety in addition to developing proper working procedures.

4 Units

36 Lecture hours

108 Lab hours

WELD 065

Introduction to Gas Tungsten Arc Welding

Prerequisite: WELD 040

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course introduces the principles and practices of gas tungsten arc welding (GTAW), including set-up/ use of GTAW equipment and safe use of tools and equipment. Instruction and practice is provided for gaining proficiency welding carbon steel, stainless steel, and aluminum weld joints in the flat and horizontal positions. Fundamentals of the GTAW process, correct consumables, equip-

ment, and pre-weld preparation will be covered.

4 Units

36 Lecture hours

108 Lab hours

WELD 070

Advanced Gas Tungsten Arc Welding

Prerequisite: WELD 065

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This course provides further advancement of knowledge and skills in gas tungsten arc welding (GTAW). Emphasis is placed on developing proficiency in welding carbon steel, stainless steel, and aluminum weld joints in the vertical and overhead position. This course exposes students to using positioners, welding fixtures, and tooling commonly used in the workplace. Preparation for welding certification is covered.

4 Units

36 Lecture hours

108 Lab hours

WELD 075

Certification Welding I

Prerequisite: WELD 055

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. Re-enrollment may be allowed up to three times for certification or licensure standards, only by permit from the division.

4 Units

36 Lecture hours

108 Lab hours

WELD 080

Certification Welding II

Prerequisite: WELD 055

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 written test portion of the City of Los Angeles Department of Building & Safety (LADBS) Certified Welder Examination. This course emphasizes specific skills in Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), and Gas Metal Arc Welding (GMAW) as it applies to Certification in Structural Steel, Light Gage Steel, and Structural Aluminum. The course also focuses on safety, welding codes, test preparation, procedures, and destructive testing. Special emphasis will be placed on developing proficiency in order to successfully pass the LADBS exam. This course may be repeated once for certification or licensure standards, only by permit from the division.

3 Units

54 Lecture hours

WELD 085

Introduction to Metal Fabrication

Prerequisite: WELD 040; WELD 050; WELD 055; WELD 065

Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

This is an introductory course that examines the theory and application aspects of metal fabrication. It covers the safe and effective use of metal fabricating equipment and tools to complete assigned projects. This course also includes hands-on instruction and practice in cutting, grinding, drilling, rolling, bending and welding tasks in accordance with supplied shop drawings.

3 Units

27 Lecture hours

81 Lab hours

WELD 299

Directed Study in Welding Technology

Prerequisite: 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
Advisory: ENGL 035 or ENLA 100 or appropriate assessment; READ 023 or appropriate assessment

Transfers to: CSU

This course provides an opportunity for the student to expand their studies in Welding Technology beyond the classroom by completing a project or an assignment arranged by an agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students must possess a 2.5 overall GPA, a 3.0 GPA in the discipline of study being requested, or receive an exception from the instructor. Students may take a maximum

of 3 units of Directed Study within a discipline and 9 units college-wide.

1 to 3 Units

54 to 162 Lab hours

WILDLAND FIRE TECHNOLOGY

Division of Public Safety

WFT 040

Firefighter Type 2 (S130)

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course provides students seeking wildland training and certification at the Type 2 level. This course provides instruction in wildland fire behavior, hazard recognition, human factors in high-risk environments, basic incident command system, radio operations, and documentation. Classroom and field exercises 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.

2 Units

32 Lecture hours

12 Lab hours

WFT 041

Firefighter Type 1 (S131)

Prerequisite: WFT 040

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course prepares interested students with additional leadership and skill sets needed to make leadership and tactical decisions on wildland fire incidents. This course provides instruction in the Risk Management Process, fireline reference materials, portable fire pump operations, staging area standard operating procedures and practices. Classroom and field exercises will prepare the student for a position as a Firefighter Type 1 (FF1) as recognized by the National Wildfire Coordinating Group's (NWCG).

2 Units

32 Lecture hours

12 Lab hours

WFT 042

Portable Pumps and Water Use (S211)

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course provides students with practical knowledge and skills in the use of portable fire pumps and related equipment during wildland fire incidents. The course consists of three skill areas: supply, delivery, and application of water. Students

will be required to demonstrate their knowledge of correct water use, basic hydraulics, and equipment care. Field exercises, demonstrations, and evaluations will cover set up, operation, and maintenance of pump equipment. This course meets the National Wildfire Coordinating Group's (NWCG) requirements.

1.1 Units

16 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 completed this course may retake it in order to advance their skill classification. This course meets the National Wildfire Coordinating Group's (NWCG) requirements.

1 Unit

16 Lecture hours

16 Lab hours

WFT 044

Introduction to ICS (I100)

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course provides first responders and other interested students an introduction to the Incident Command System (ICS-100). This course also provides a basic introduction to wildland fire management (5-110) 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 or ICS 100 certification from FEMA, NWCG or CSFM (CA State Fire Marshal)

Advisory: ENGL 030 or ENLA 034 or appropriate assessment; READ 023 or appropriate assessment

This course is designed to teach first responders and other interested students 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: READ 023 or appropriate assessment; FTEC 044; The ability to carry a 45 lb. pack three miles within a 45 minute time period; Must complete and pass a US Forest Service Medical Exam

Advisory: ENGL 035 or ENLA 100 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 wildland equipment. Certification in S-130, S-131 and Hazardous Materials Response is included. Students will learn about wildland firefighter safety, fire behavior, protective clothing, fire pumps and wildland fire tools. This course includes arduous physical conditioning as day and night time hikes and other outdoor activity is included. This academy meets or exceeds the minimum required training for the US Forest Service and CAL Fire Agencies as a wildland firefighter for certification purposes.

16 Units

190 Lecture hours

297 Lab hours

WFT 101

Wildland Fire Behavior

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 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, resource typing, management, and safety procedures during wildland fire incidents. This course meets or exceeds the National Wildfire Coordinating Group's (NWCG) requirements.

3 Units

54 Lecture hours

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 Wild-fire 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 Other 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 Units

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 Units

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 Units

120 Lecture hours

NBAS 009

Supervised Tutoring in College Courses

This course provides students with the tools needed to excel in their courses. Trained tutors individually help students attain higher levels of

comprehension and competency by providing supplemental instruction for pre-approved subjects. Workshops enhance student learning. This course is open- entry/open-exit.

0 Units

1 to 180 Lab hours

NBAS 010

Supervised Tutoring in Mathematics

Trained tutors will individually help students who need assistance in attaining comprehension and competency in mathematical learning skills. This course is designed to supplement the instruction in mathematics courses and other courses with mathematical content. This course is open-entry/ open-exit.

0 Units

1 to 180 Lab hours

NBAS 014

Review of Integrated Math I Part A

This course is a review of the first half of Integrated Math I. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the first semester of Integrated Math I, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Number and Quantity, Algebra, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 015

Review of Integrated Math I Part B

This course is a review of the second half of Integrated Math I. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the second semester of Integrated Math I, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core

State Standards domains of Geometry, Statistics and Probability, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 016

Review of Integrated Math II Part A

This course is a review of the first half of Integrated Math II. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the first semester of Integrated Math II, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Algebra, portions of Functions, and portions of Number and Quantity.

0 Units

22 to 100 Lecture hours

NBAS 017

Review of Integrated Math II Part B

This course is a review of the second half of Integrated Math II. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the second semester of Integrated Math II, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Geometry, Statistics and Probability, portions of Number and Quantity, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 018

Review of Integrated Math III Part A

This course is a review of the first half of Integrated Math III. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the first semester of Integrated Math III, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students

wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Algebra, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 019

Review of Integrated Math III Part B

This course is a review of the second half of Integrated Math III. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the second semester of Integrated Math III, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Number and Quantity, Geometry, Statistics and Probability, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 020

Review of Algebra I Part A

This course is a review of the first half of Algebra I. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the first semester of Algebra I, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Number and Quantity, Algebra, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 021

Review of Algebra I Part B

This course is a review of the second half of Algebra I. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the second semester of Algebra I, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Geom-

etry, Statistics and Probability, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 022

Review of Geometry Part A

This course is a review of the first half of Geometry. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the first semester of Geometry, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of: portions of Congruence, portions of Similarity, Right Triangles, and Trigonometry, and portions of Modeling with Geometry.

0 Units

22 to 100 Lecture hours

NBAS 023

Review of Geometry Part B

This course is a review of the second half of Geometry. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the second semester of Geometry, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Congruence, portions of Similarity, Right Triangles, and Trigonometry, Circles, portions of Expressing Geometric Properties with Equations, Geometric Measurement and Dimension, and Statistics and Probability.

0 Units

22 to 100 Lecture hours

NBAS 024

Review of Algebra II Part A

This course is a review of the first half of Algebra II. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the first semester of Algebra II, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards

domains of Number and Quantity, Algebra, and portions of Functions.

0 Units

22 to 100 Lecture hours

NBAS 025

Review of Algebra II Part B

This course is a review of the second half of Algebra II. It is mainly a self-paced, software-based independent study program which permits a high school student to retake the second semester of Algebra II, for the purpose of making up credit and/or improving their grade from a prior attempt at the course, but may involve individualized and/or small group instruction as needed. Students wishing to enroll in this course will need consent from a high school counselor and consent from a parent. The course covers the Common Core State Standards domains of Geometry, Statistics and Probability, and portions of Functions.

0 Units

22 to 100 Lecture 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. Student's will also participate in specific activities that develop an individual's level of physical fitness.

0 Units

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 Units

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 Units

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 Units

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 Units

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 - Units

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 Units

8 to 20 Lecture hours

8 to 20 Lab hours

NCOA 010

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 Units

8 to 24 Lecture hours

NCOA 012

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 Units

1 to 48 Lecture hours

NCOA 013

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 Units

1 to 24 Lecture hours

NCOA 014

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 Units

1 to 24 Lecture hours

NCOA 015

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 Units

1 to 24 Lecture hours

NESL 001

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 Units

1 to 72 Lecture hours

NESL 015

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 Units

58.7 Lecture hours

NESL 016

ESL Intermediate Low

Prerequisite: ESL 015 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 Units

58.7 Lecture hours

NESL 017

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 Units

58.7 Lecture hours

NESL 018**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 Units

58.7 Lecture hours

NESL 034**ESL Multi-Level I**

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 Units

24 to 50 Lecture hours

NESL 035**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 Units

24 to 90 Lecture hours

NESL 036**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 Units

1 to 72 Lecture hours

NGBD 101**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-

efits – to building design, construction and operations. This course is intended for those who are new to green building and looking to learn the basics of green building and LEED.

0 Units

20 Lecture hours

NHAN 001**Art Workshop for the Handicapped**

Courses for cultural enrichment and awareness of many different forms of art. Emphasis is on therapeutic value.

0 - Units

1 to 18 Lecture hours

1 to 18 Lab hours

NHEC 002**Soap Making as an Art and a Business**

This course is designed for anyone wanting to expand their creative skills for personal satisfaction or as a business. Students will create different kinds of soaps such as glycerin or coconut soap. The use of molds, layering of colors, and adding herbs and fragrances will be discussed.

0 Units

1 to 54 Lecture hours

NHSL 030**Nursing Skills Lab**

This course complements the HS, ADN and VN lecture courses and is designed to provide an additional opportunity for students to practice skills covered in their co-requisite courses. These instructional activities are not available in the regular lecture/lab course and are not required for the grade in the co-requisite course.

0 Units

10 to 200 Lab 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 Units

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 Units

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 Units

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 Units

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 Units

1 to 500 Lab 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 CADD skills for work place productivity. These instructional activities are not available in the regular lecture/lab course and are not required for the grade in the corequisite course.

0 Units

1 to 200 Lab hours

NVOC 030**Personal Care Aide**

This course is designed to prepare students to assist elderly, disabled, and ill individuals living at home. This course will help students enhance their communication skills and knowledge of health environment and procedures for emergencies. Students will also learn to recognize physical, emotional, and developmental characteristics of individuals served; personal hygiene, safe transfer techniques, basic nutrition, and other personal care needs.

0 Units

70 Lecture hours

30 Lab hours

NOVC 031**First Aid and CPR**

This course teaches skills with the AHA's research-proven practice-while-watching technique. The course is designed to teach students critical skills needed to respond to and manage an emergency until emergency medical services arrives. Skills covered in this course include first aid; choking relief in adults, children, and infants; and what to do for sudden cardiac arrest in adults, children, and infants. This course is for anyone with limited or no medical training who needs a course completion card in CPR and AED use to meet job, regulatory, or other requirements.

0 Units

8 Lecture hours

NVOC 032**American Heart Association CPR BLS**

This course is taught by AHA Instructors and meets the requirements for most nursing programs and clinical facilities. This course teaches both single-rescuer and team basic life support skills for application in both pre hospital and in-facility environments, with a focus on High-Quality CPR and team dynamics. Basic Life Support training reinforces healthcare professionals' understanding of the importance of early CPR and defibril-

lation, basic steps of performing CPR, relieving choking, and using an AED; and the role of each link in the Chain of Survival.

0 Units

4 Lecture hours

0 Lab hours

NVOC 038**Real Estate Practice**

This class is an introduction to professional aspects of the real estate business. Topics include agency responsibilities for the salesperson and the broker, office management, how to list and prospect property, selling and marketing techniques, advertising, financing, escrow and closing procedures. Students will acquire a general understanding of fields related to real estate such as finance, appraisal, escrow, and investing. The class will detail the areas necessary to conduct a modern real estate brokerage business. This course is approved by the California Department of Real Estate as one of the required courses for the State Sanctioned Conditional Real Estate Sales Persons License.

0 Units

1 to 48 Lecture 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 electives for the State Sanctioned Conditional Real Estate Sales Persons License.

0 Units

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 Units

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 Units

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 newsprint and participate in Spanish conversations.

0 Units

14 Lecture hours

NVOC 050**Nurse Assistant Pre-Certification**

Corequisite: NVOC 050L

This course is designed for students who have expressed an interest in an entry-level nursing course. This course meets Title 22 regulations for taking care of the geriatric population in a long-term care setting, utilizing skills in basic care, emergency care and communication. The Nurse Assistant Pre-Certification course consists of 72 hours of classroom instruction. This course prepares the student to take the California State Certification Exam to become a Certified Nurse Assistant (CNA). After obtaining the state certification, the student may find employment in the acute care and/or long-term care settings. The California Department of Public Health requires that students must be concurrently enrolled in both

NVOC 050 and NVOC 050L, and pass both courses together. They cannot be taken individually.

0 Units

72 Lecture hours

NVOC 050L

Nurse Assistant Pre-Certification Lab

Corequisite: NVOC 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 lab consists of 135 hours of supervised clinical practice in long-term facilities. This course prepares the student to take the California State Certification Exam to become a Certified Nurse Assistant (CNA). After obtaining the state certification, the student may find employment in the acute care and/or long-term care settings. The California Department of Public Health requires that students must be concurrently enrolled in both NVOC 050 and NVOC 050L, and pass both courses together. They cannot be taken individually.

0 Units

0 Lecture hours

135 Lab hours

NVOC 051

CNA Acute Care Training Course

Prerequisite: Nurse Assistant Pre-Certification Training Course/California State Certification

This course is designed for students who are Certified Nurse Assistants and 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 27 hours of classroom instruction. This course includes communication, patient observation, reporting and recording training, as well as reinforcement of Certified Nurse Assistant basic care procedures. The Health Science and Nursing Division require that students must be concurrently enrolled in both NVOC 051 and NVOC 051L, and pass both courses together. They cannot be taken individually.

0 Units

27 Lecture hours

NVOC 051L

CNA Acute Care Training Course Lab

Prerequisite: Nurse Assistant Pre-Certification Training Course/California State Certification

This course is designed for students who are Certified Nurse Assistants

and 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 lab 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.

0 Units

0 Lecture hours

54 Lab hours

NVOC 052

Home Health Aide Training Course

Prerequisite: Nurse Assistant Pre-Certification Training Course/California State Certification

This course is designed for students who are Certified Nurse Assistants who 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 Home Health Aides training programs. The California Department of Public Health requires that students must be concurrently enrolled in both NVOC 052 and NVOC 052L, and pass both courses together. They cannot be taken individually.

0 Units

27 Lecture hours

0 Lab hours

NVOC 052L

Home Health Aide Training Course-Lab

Prerequisite: Nurse Assistant Pre-Certification Training Course/California State Certification

This course is designed for students who are Certified Nurse Assistants that wish to learn how to provide personal care in the home care setting for those who are unable to do it for themselves and/or promote the recovery, safety and comfort of the patient. Additional emphasis on rehabilitative nursing care, family relationships and the impact of long-term illness on the family as well as the client will be included. The Home Health Aide training course lab consists of 54 hours of supervised clinical practice in either the Acute Care or Skilled Nursing facility. This course meets the Title 22 regulations for Home Health Aides training programs.

The California Department of Public Health requires that students must be concurrently enrolled in both NVOC 052 and NVOC 052L, and pass both courses together. They cannot be taken individually.

0 Units

0 Lecture hours

54 Lab hours

NVOC 059

Introduction to Welding Processes

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.

0 Units

1 to 18 Lecture hours

1 to 54 Lab hours

NVOC 060

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 Units

1 to 18 Lecture hours

1 to 54 Lab hours

NVOC 061

Production Welding Techniques

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.

0 Units

1 to 36 Lecture hours

1 to 108 Lab hours

NVOC 062**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 Units**1 to 18 Lecture hours****1 to 54 Lab hours****NVOC 063****Intermediate 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 components from sheet metal. Emphasis will be placed on shop safety and on developing proper working procedures.

0 Units**1 to 18 Lecture hours****1 to 54 Lab hours****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 Units**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: introduction to the carpenter's apprentice program, hand tool safety, power tool safety,

math, beginning blueprint reading and layouts, trade history and job-site safety.

0 Units**20 Lecture hours****20 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 Units**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 engineering technology. Topics will include the history of engineering, careers in engineering, ethics and responsibilities of the engineer, communicating and problem solving.

0 Units**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. The course is study of civil design drafting practices and the preparation of drawings used in the civil engineering field. Students will use Computer Aided Drafting (CADD) software to complete projects relating to interpretation of survey data, profiles and cross sections, land subdivision, site and grading plans, underground utilities and structures, concrete and structural detailing.

0 Units**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 Units**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 Units**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 Units**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 in which the practices and the preparation of drawings, pertaining to the civil engineering field, will be expanded to include the development of maps and drawings used for transportation, site development, grading and drainage and road alignment. The student will use Computer Aided Drafting (CADD) to complete the above mentioned projects. Other topics to be covered will include specifications, site details for utilities and underground piping, structural plans and integration of Geographic Information Systems (GIS).

0 Units

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 InRoads 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 Units

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 Units

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 Units

54 Lecture hours

54 Lab hours

NVOC 261

Revit for Advanced BIM Architectural, Structural and MEP Applications

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.

0 Units

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 Units

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 Units

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. 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.

0 Units

54 Lecture hours

54 Lab hours

NVOC 280

Advanced MicroStation for CADD & BIM Applications

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.

0 Units

54 Lecture hours

54 Lab hours

NVOC 285

Graphic Design Skills Development

This course complements the GDSN lab and lecture courses and is designed to provide an additional opportunity for students to practice concepts covered in the lab and lecture courses and enhance their Graphic Design work in preparation of their portfolios. These instructional activities are not available in the regular lecture/lab courses and are not required for the grade in the courses. It is recommended for students who have previously or are currently enrolled in any Rio Hondo College Graphic Design course with a prefix of ART or GDSN.

0 Units

1 to 400 Lab hours



12 Administrators

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Executive Director Rio Hondo College
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13 Faculty

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14 Maps

CAMPUS DIRECTORY



- Bicycle Racks
- Designated Smoking Area
- Elevator
- EV Charging Station
- Free Speech Area
- Metered Parking
- Publicity Posting Area
- Security Office (A117)

- Emergency Phone
- Tram Stops

- STUDENT PARKING**
- A C E J L
1 2 2B 3 4 5 6
- STAFF PARKING**
- B D E F
G H K 2A



BUILDING LEGEND

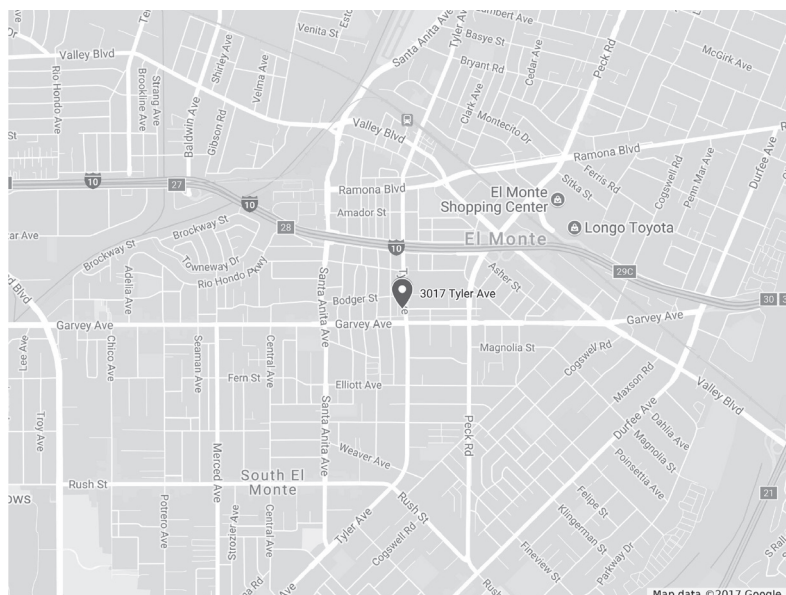
A	Administration	BS	Bookstore	L	L Building	PB	Information/Parking Booth
AJ	Administration of Justice	CI	Campus Inn	LQ	Lower Quad	PE	Physical Education
AJA	Administration of Justice Annex	CP	Central Plant	LRC	Learning Resource Center	S	Science and Math
AT	Applied Technology	CR	Central Receiving	M	Music	SS	Student Services
ART	Art	CDC	Child Development Center	MC	Modular Classrooms	SU	Student Union
B	Business	CT	Courts (Tennis)	MN	Maintenance	UQ	Upper Quad
BB	Black Box Theater	G	Gymnasium	O	Observatory	W	Way Memorial Theater

El Monte Education Center

3017 Tyler Avenue
El Monte, CA 91731
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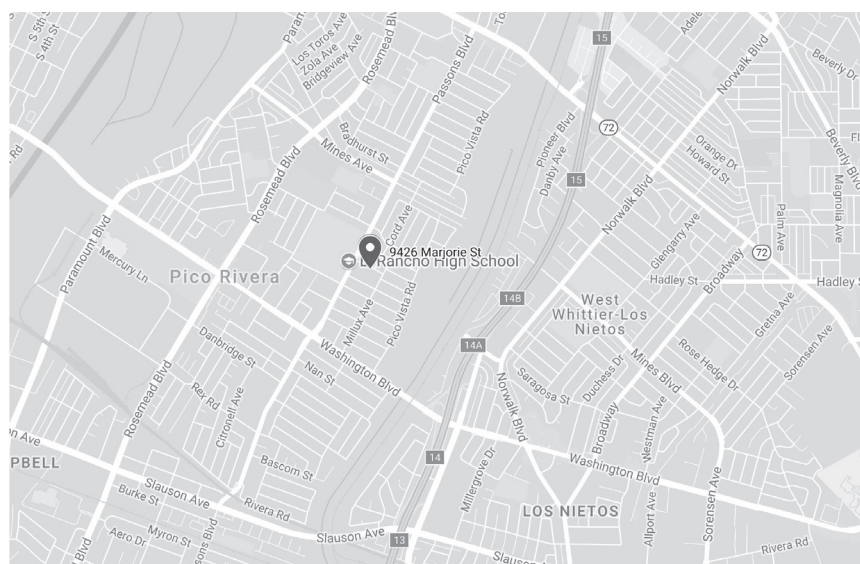


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Pico Rivera, CA 90660
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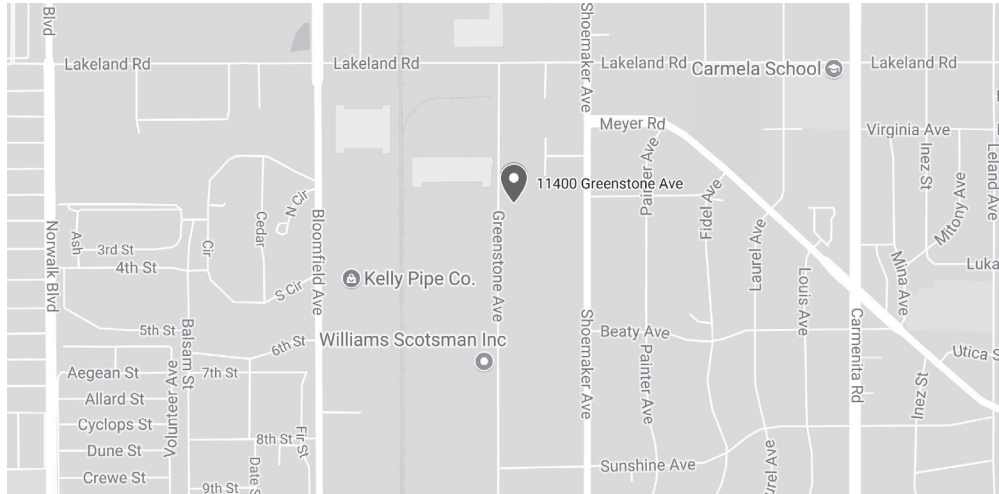
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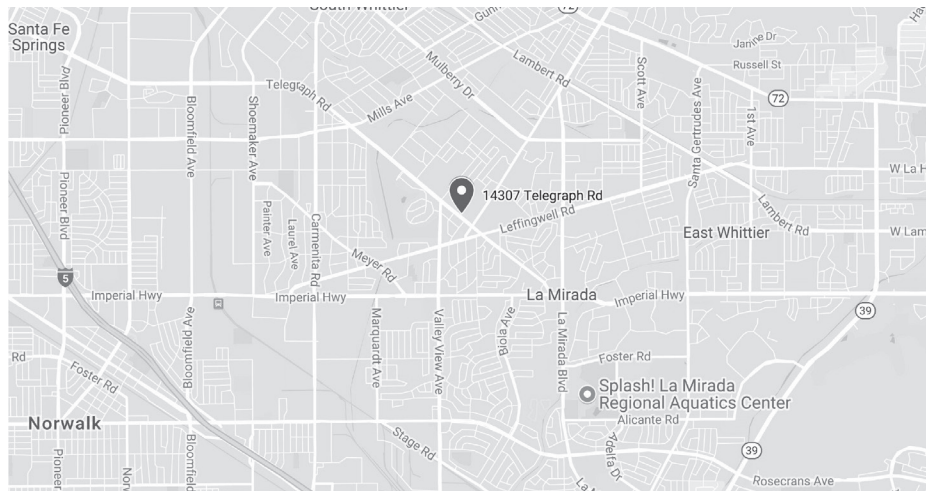


South Whittier Education Center

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Whittier, CA 90604
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Metro Bus Lines, Sunshine Shuttle

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