RIVERSIDE COMMUNITY COLLEGE DISTRICT
NORCO COLLEGE

Dr. Gregory W. Gray, Chancellor,
Riverside Community College District
•
Dr. Brenda Davis, President, Norco College

BOARD OF TRUSTEES

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Ms. Janet Green ................................. Vice President
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Mr. Alexis Amor .................................. Student Trustee, 2010-2011

All information contained in the 2010-11 Catalog is current as of February 2010. Although every effort has been made to ensure accuracy of the information in this catalog, students and others who use this catalog should consult with a counselor, dean, department chair or program directors for recent additions, deletions or changes. Updates can also be found online at www.rcc.edu.

The Riverside Community College District complies with all federal and state rules and regulations and does not discriminate against any person on the basis of race, religion, gender, disability, medical condition, marital status, age or sexual orientation. This holds true for all students who are interested in participating in educational programs, including career and technical education programs, and/or extracurricular school activities. Limited English speaking skills will not be a barrier to admission or participation in any program. Harassment of any employee/student with regard to race, religion, gender, disability, medical condition, marital status, age or sexual orientation is strictly prohibited. Inquiries regarding compliance and/or grievance procedures may be directed to the District’s Title IX Officer/Section 504/ADA Coordinator, Ms. Chani Beeman, 3845 Market St., Riverside, CA 92506, (951) 222-8039.

Available in alternative formats.
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RIVERSIDE COMMUNITY COLLEGE DISTRICT

Norco College
2001 Third Street • Norco, CA 92860-2600 • (951) 372-7000

Academic Departments
Art, Humanities and World Languages .................. 372-7076
Business Services
Technologies ........................................ 372-7067
Communications .................................... 372-7067
Mathematics and Sciences ...................... 372-7079
Social and Behavioral Sciences .................. 372-7076
Admissions and Records ......................... 372-7003
Assessment Center ................................ 372-7156
Bookstore ........................................... 372-7085
Career / Transfer / Job Placement ... 372-7043

College Police .......................... 372-7088
24 Hour Dispatch Center ............. 222-8171
College Receptionist ...................... 372-7044
Counseling ...................................... 372-7101
Dean of Instruction ........................ 372-7018
Dean of Student Services .............. 372-7081
Disabled Student Services ................ 372-7070
Early Childhood Education .......... 739-0068
Extended Opportunity ..................... 372-7128
Health Services ............................. 372-7046
Library/Learning Resources .......... 372-7019

Outreach ....................................... 372-7052
Student Activities .......................... 372-7007
Student Employment ..................... 372-7190
Student Financial Services ........... 372-7009
Talented Tenth .............................. 372-7148
Title V, Hispanic Serving ............. 372-7017
Institution ..................................... 739-7800
Trio Programs ................................
Student Support Services .......... 372-7155
Upward Bound ............................... 372-7149
Tutorial ......................................... 372-7143
Writing and Reading Center ...... 372-7000 x 4545

Riverside City College
4800 Magnolia Avenue • Riverside, CA 92506-1299 • (951) 222-8000

Admissions and Records .................. 222-8600
Applied Technology ......................... 222-8491
Art ................................................. 222-8395
Art Gallery .................................... 222-8358
Athletics ......................................... 222-8892
Bookstore ...................................... 222-8140
Business Administration .................. 222-8550
College Police ............................... 222-8520
24 Hour Dispatch Center ............. 222-8171
Parking Control (Citations) ...... 222-8520/21
Community Education ..................... 222-8090
Cosmetology .................................. 222-8181
Counseling ..................................... 222-8440

Disabled -Student Services ........... 222-8060
Diversity and Equity Compliance .... 222-8435
Early Childhood Education .......... 222-8068
Extended Opportunity ..................... 372-7128
Health Services ............................. 222-8151
Information Systems and Technology . 222-8556
International Student Center ....... 222-8160
Library/Learning Resources .......... 222-8560
Math Learning Center ...................... 222-8000 x 4100
Nursing, School of ...................... 222-8405

Career and Technical Education .... 222-8131
Outreach ........................................
Performance Riverside ................ 222-8100
Senior Citizen Education .......... 222-8090
Student Activities ....................... 222-8570
Student Financial Services .......... 222-8710
Transcript Office .......................... 222-8603
Transfer Center ............................. 222-8446
Tutorial ......................................... 222-8168
Veterans Office ............................. 222-8602
Writing and Reading Center ...... 222-8632
Workforce Preparation .................. 222-8648

Moreno Valley College
16130 Lasselle Street • Moreno Valley, CA 92551-2045 • (951) 571-6100

Admissions .............................. 571-6101
ASRCC Student Government ........ 571-6105
Assessment and Placement Testing .... 571-6492
Bookstore ...................................... 571-6107
Business Services ......................... 571-6342
Career and Transfer Center ......... 571-6205
College Police ............................... 571-6190
Computer Lab ............................... 571-6127
Counseling ..................................... 571-6104
Dean of Health Sciences ............. 571-6292
Dean of Instruction ....................... 571-6163

Academic Departments:
Business, and Information Technology Systems .................. 571-6125
Communications .................................. 571-6325
Health, Human, and Public Services .................. 571-6251
Humanities and Social Sciences .................. 571-6134
Mathematics, Sciences and Physical Education .................. 571-6125

Public Safety Education and Training .................. 571-6314
Dean of Public Safety Education and Training ............. 571-6314
Dean of Student Services .............. 571-6137
Dental Hygiene/Assisting Program .......... 571-6433
Dental Tech Program ....................... 571-6440
Disabled Student Program and Services ............. 571-6138
Education Services ....................... 571-6351
Extended Opportunity Programs and Services ............. 571-6253
Early Childhood Education Center .................. 571-6214
Emergency Medical Services .......... 571-6284
English Writing and Reading Center .................. 571-6128
Facilities Office .............................. 571-6113
Financial Services .......................... 571-6139
Fire Technology .................................. 571-6318
Health Services ............................. 571-6103

Information Services ..................... 571-6116
Institutional Research and Assessment ............. 571-6388
Instructional Media Department ............. 571-6201
Job Placement .................................. 571-6414
KRIC TV, Channel 17 ....................... 571-6100 x 4317
Law Enforcement Programs .......... 571-6316
Library ........................................... 571-6111
Mailroom ...................................... 571-6145
Math Lab ........................................ 571-6232
Matriculation ............................ 571-6131
Middle College High School .......... 571-6463
Outreach ........................................ 571-6236
Physician Assistant Program ........ 571-6166
Police Dispatch ............................. 222-8171
President's Office ......................... 571-6161
Puente Program ............................. 571-6240
Title V Office .................................. 571-6260
Tutorial Services ............................ 571-6167
Workforce Preparation .................. 571-6154
GREETINGS FROM OUR PRESIDENT

On behalf of the entire faculty and staff, I am pleased to present our 2010-2011 Catalog. This catalog provides students with valuable information regarding courses and programs offered by Norco College. I would encourage all students to see a counselor for further assistance in regard to the information contained in the catalog. Your counselor can provide you with a detailed educational plan that can help expedite your success as a college student.

This marks the first full academic year for Norco College. In February the Accrediting Commission for Community and Junior Colleges approved our application for initial accreditation, which was followed by a formal recognition by the California Community Colleges Board of Governors. These actions were the culmination of years of hard work by our faculty, staff, administrators and students. Students are able to take courses at all three colleges within Riverside Community College District, but can earn their degrees as Norco College graduates.

At Norco College you will find a dedicated, highly competent faculty and staff to assist you in your educational pursuits. Our college continues to grow, with a new Center for Student Success opening this fall. I am delighted that you are a part of our student body and my faculty, staff and I look forward to helping you accomplish all that you set out to achieve.

Brenda Davis, Ed.D.
President
Norco College
Riverside Community College District
RIVERSIDE COMMUNITY COLLEGE DISTRICT
NORCO COLLEGE
2001 Third Street
Norco, California 92860-2600
(951) 372-7000
A  Student Services - (SSV)
B  Science & Technology - (ST)
C  Theater - (THTR)
D  Humanities - (HUM)
E  The Corral
F  Central Plants
G  Wilfred J. Airey Library - (LIBR)
H  Head Start
I  Bookstore
J  Early Childhood Education Center - (ECEN)
K  Center for Applied and Competitive Technologies (CACT)
L  West End Quad - (WEQ)
M  Facilities
N  Applied Technology - (ATEC)
O  JFK Middle College High School - (JFK)
P  Portables A & B
Q  Industrial Technology (IT)
R  Sports Complex
S  Center for Student Success (CSS)
RIVERSIDE COMMUNITY COLLEGE DISTRICT ADMINISTRATION

OFFICE OF THE CHANCELLOR

Dr. Gregory W. Gray
Chancellor

Ms. Chris Carlson
Chief of Staff/Executive Assistant to the Chancellor

Mr. Jim Parsons
Associate Vice Chancellor, Strategic Communications and Relations

Mr. Orin Williams
Associate Vice Chancellor, Facilities Planning, Design and Construction

OFFICE OF THE VICE CHANCELLOR, EDUCATIONAL SERVICES

Dr. Ray Maghroori
Vice Chancellor, Educational Services

Mr. Raj Bajaj
Dean, Institution Reporting and Academic Services

Ms. Kristina Kauffman
Associate Vice Chancellor, Institutional Effectiveness

Dr. John Tillquist
Dean, Economic Development

Ms. Sylvia Thomas
Associate Vice Chancellor, Educational Services

Mr. David Torres
Dean, Intuitional Research

OFFICE OF THE VICE CHANCELLOR, ADMINISTRATION AND FINANCE

Dr. James Buysse
Vice Chancellor, Administration and Finance

Mr. Aaron Brown
Associate Vice Chancellor, Finance

Mr. Steve Gilson
Associate Vice Chancellor, Information Services

OFFICE OF THE VICE CHANCELLOR, DIVERSITY AND HUMAN RESOURCES

Ms. Melissa Kane
Vice Chancellor, Diversity and Human Resources

DISTRICT CURRICULUM COMMITTEE

Dr. Richard Mahon
District Curriculum Chair
Riverside Curriculum Committee Chair

Mr. Peter Boelman
Committee Member
Norco Curriculum Committee Chair

Mr. Chip Herzig
Committee Member*
CurricUNET Liason

Dr. Chris Rocco
Committee Member
Moreno Valley Curriculum Committee Chair

Ms. Sylvia Thomas
District Administrative Co-Chair*

Ms. Toni Van Buhler
Committee Secretary*

*Non-voting member
Dr. Brenda Davis
President

Dr. Deborah DiThomas
Vice President, Student Services

Dr. Linda Howdyshell*
Interim Vice President, Academic Affairs

Mr. Curt Mitchell
Vice President, Business Services

Dr. Diane Dieckmeyer
Dean of Instruction

Dr. Monica Green
Dean, Student Services

Ms. Annebelle Nery
Dean, Student Success

Mr. Mark DeAsis
Director, Enrollment Services

Ms. Lisa McAllister
Director, Health Services

Mr. Steve Monsanto
Director, Plant/Operations & Maintenance

Mr. Gustavo Oceguera
TRIO Director

Mr. Kevin Fleming
Associate Dean, Career and Technical Education

Mr. Damon Nance
Associate Dean, Library/Learning Resources

Dr. Koji Uesugi
Associate Dean, Special Funded Programs

*pending Board approval
### Riverside Community College District
#### 2010-2011 ACADEMIC CALENDAR

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<tr>
<th>June 2010</th>
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- **June 2011**
  - Required day for New Faculty - August 24
  - Required FLEX Day
    - College: August 26, 2010
    - District/Discipline: February 11, 2011
  - Optional FLEX Day
    - August 27, 2010
  - Part-time Faculty Orientation to be arranged by campus.
  - Legal Holiday/Day of Observance
  - Commencement (June 9)
  - Classes not in Session
  - Summer Session 2010
    - Day Classes (6 weeks)
    - June 21 - July 29
    - Evening Classes (6 weeks)
    - June 21 - August 12
    - Weekend Classes (6 weeks)
    - June 27 - August 15
  - Fall 2010
    - August 30 - December 17
  - Winter Intersession 2011 (6 weeks)
    - January 3 - February 10
    - January 2 - February 12 (Weekend Classes)
  - Spring 2011
    - February 14 - June 9
  - Final Exams

For final exam schedule, please refer to the Class Schedule.
Graduation: June 9, 2011
The application deadline to walk in the Commencement Ceremony is April 1, 2011
Section I

GENERAL INFORMATION
MISSION STATEMENTS

NORCO COLLEGE
Norco College provides educational programs, services, and learning environments for a diverse community. We equip our students with the knowledge and skills to attain their goals in higher, career/technical, and continuing education; workforce development; and personal enrichment. To meet the evolving community needs Norco College emphasizes the development of technological programs. As a continuing process we listen to our community and respond to its needs while engaging in self-examination, learning outcomes assessment, ongoing dialogue, planning, and improvement.

RIVERSIDE COMMUNITY COLLEGE DISTRICT
Riverside Community College District is dedicated to the success of our students and to the development of the communities we serve. To advance this mission, our colleges and learning centers provide educational and student services to meet the needs and expectations of their unique communities of learners. To support this mission, District Offices provide our colleges with central services and leadership in the areas of advocacy, resource development, and planning.

RCCD GOALS — 2005-2015
Improve student retention and success by strengthening certificate, degree, and transfer programs and by establishing new programs and course sequences that lead students to opportunities for transfer education and career preparation.

Ensure that the resources of the district support an effective learning process and ensure accountability by measuring and reporting on institutional effectiveness.

Utilize advances in information technologies to improve effectiveness of instruction, services, and administration.

Improve the capability for economic development and community services by strengthening partnerships with other educational institutions, business, labor, and government to enhance seamless educational opportunity and continuity for students.

Tailor programs and services to meet the needs of the students and communities served by the three-college District.

Increase the college-going rate in the area by reaching out to underrepresented and underserved populations and designing programs, services, and approaches relevant to the diverse segments of the community.

OUR RCCD VISION AND VALUES
Historically the Riverside Community College District has pursued fulfillment of the Mission Statement and the Trustee-adopted Goals by affirming its vision and values:

OUR VISION
The Riverside Community College District is committed to exceeding the expectations of students, community, faculty, and staff by providing and expanding opportunities for learning, personal enrichment, and community development.

VALUES
Recognition for Our Heritage of Excellence: We embrace the District’s rich tradition of excellence and innovation in upholding the highest standard of quality for the services we provide to our students and communities. We are bound together to further our traditions and to build for the future on the foundations of the past.

Passion for Learning: We believe in teaching excellence and student centered decision making. We value a learning environment in which staff and students find enrichment in their work and achievements.

Respect for Collegiality: We recognize the pursuit of learning takes the contributions of the entire district community, as well as the participation of the broader community. We believe in collegial dialogue that leads to participatory decision making.

Appreciation of Diversity: We believe in the dignity of all individuals, in fair and equitable treatment, and in equal opportunity. We value the richness and interplay of differences. We promote inclusiveness, openness, and respect to differing viewpoints.

Dedication to Integrity: We are committed to honesty, mutual respect, fairness, empathy, and high ethical standards. We demonstrate integrity and honesty in action and word as stewards for our human, financial, physical, and environmental resources.

Commitment to Community Building: We believe the District is an integral part of the social and economic development of our region, preparing individuals to better serve the community. We believe in a community-minded approach that embraces open communication, caring, cooperation, transparency, and shared governance.

Commitment to Accountability: We strive to be accountable to our students and community constituents and to use quantitative and qualitative data to drive our planning discussions and decisions. We embrace the assessment of learning outcomes and the continuous improvement of instruction.

RCCD FUNCTIONS

GENERAL EDUCATION
Goal: General education is available at all three colleges (Norco, Riverside City College and Moreno Valley) of the Riverside Community College District. A person informed through general education about the conceptual schemes of the arts, humanities and sciences, who comprehends the structure of society and who thinks clearly about the individual and society, will have the tools by which he or she may function efficiently. Such an individual is encouraged to utilize these tools in developing a conception of a commitment to a good life involving able and responsible citizenship, moral and humane relationships, and appreciation of the democratic processes and the culture which sustains our society.

Objective: Specifically, the colleges offer to all of its students a pattern of courses designed to produce an awareness of self and to provide (1) a basic competence with the English language in its written and spoken form; (2) at least a minimum competence in mathematics; (3) a knowledge of American history and governmental institutions; (4) regard for health, mental and physical, of oneself and of the community at large; (5) a grasp of the principles of the major divisions of human studies, humanities and science with some understanding of basic disciplines and methodologies; and (6) knowledge in some depth of one subject area.

GENERAL EDUCATION STUDENT LEARNING OUTCOMES
Every student who graduates from RCCD-Norco College with an A.A. or A.S. degree is unique—almost no two take exactly the same
courts. But to be educated is to possess some values in common, some shared competencies and modes of thought. Thus all graduates meet a 23-unit general education requirement that gives them broad exposure to ideas and skills outside their own areas of special interest. After successfully completing the GE requirement, all RCCD-Norco College students should be able to . . .

**Critical Thinking**
- Analyze and solve complex problems across a range of academic and everyday contexts
- Construct sound arguments and evaluate arguments of others
- Consider and evaluate rival hypotheses
- Recognize and assess evidence from a variety of sources
- Generalize appropriately from specific cases
- Integrate knowledge across a range of contexts
- Identify one’s own and others’ assumptions, biases, and their consequences

**Information Skills**
- Demonstrate computer literacy
- Locate, evaluate, and use information effectively

**Communication Skills**
- Write with precision and clarity to express complex thought
- Read college-level materials with understanding and insight
- Listen thoughtfully and respectfully to the ideas of others
- Speak with precision and clarity to express complex thought

**Breadth of Knowledge**
- Understand the basic content and modes of inquiry of the major knowledge fields
- Analyze experimental results and draw reasonable conclusions from them
- Use the symbols and vocabulary of mathematics to solve problems and communicate results
- Respond to and evaluate artistic expression

**Application of Knowledge**
- Maintain and transfer academic and technical skills to workplace
- Be life-long learners, with ability to acquire and employ new knowledge
- Set goals and devise strategies for personal and professional development and well being

**Global Awareness**
- Demonstrate appreciation for civic responsibility and ethical behavior
- Participate in constructive social interaction
- Demonstrate teamwork skills
- Demonstrate understanding of ethnic, religious, and socioeconomic diversity
- Demonstrate understanding of alternative political, historical, and cultural viewpoints

The General Education Student Learning Outcomes were approved by the Board of Trustees on December 12, 2006.

**TRANSFER OR LOWER DIVISION EDUCATION**
**Goal:** Many students attending Riverside Community College District-Norco College desire the Baccalaureate Degree. Accordingly, the district is committed to providing transfer and lower division education to qualified students.

**Objective:** The college provides courses which parallel those of the lower division of the California State University system, the University of California, and of private universities so that qualified students may transfer to four-year public or private institutions.

**CAREER AND TECHNICAL EDUCATION**
**Goal:** Occupational programs, through an advisory process, respond to the changing needs of our communities’ labor market to provide a skilled workforce for business and industry including public and private sectors.

**Objective:** At the colleges, occupational skills training provides specialized occupational programs that lead individuals either directly to employment or allows for employed individuals to update their skills and knowledge so that they may proceed further in their career endeavors.

**REMEDIAL OR DEVELOPMENTAL EDUCATION**
**Goal:** The diverse levels of students’ skills demand that the colleges provide students with support services to assist them in acquiring those skills that are prerequisite to success in college.

**Objective:** The colleges provide courses in the use of basic learning skills at levels appropriate to those students who must remedy deficiencies. The colleges provide for preassessment, advisement, and specialized programs.

**COMMUNIty EDUCATION**
**Goal:** Riverside Community College District seeks to provide a variety of informational, recreational, and skill building opportunities responsive to community needs. Community Education is a self-supporting entity of the college not funded by tax payer dollars. Classes and programs are not-for-credit.

**Objective:** Community Education offers professional and personal development classes, and recreational classes for district residents of all ages.

**CUSTOMIZED TRAINING**
**Goal:** The district offers a variety of customized workshops, seminars, needs assessments, consulting, coaching, pre-employment assessments, and credit and not-for-credit services which are designed to meet the needs of individual businesses.

**STUDENT SERVICES**
**Goal:** Recognizing the need for a comprehensive learning experience for students, the colleges provide a wide variety of nonclassroom experiences and services which shall assist students in achieving their educational and career goals.

**Objective:** The colleges provide a fully integrated program of admission, orientation, assessment, advisement, placement, and registration for students which is consistent with the college’s overall mission.

In addition, the colleges have developed a wide range of student support services such as financial assistance, health services, child care, services for students with a disability, and similar special education services and programs, which along with a comprehensive program of student activities, athletics, fine arts, and student government, enhance the student’s overall learning experience at the colleges.

**HISTORY AND DEVELOPMENT**
Founded in 1916 in response to a general petition of the electors,
Riverside Community College has served our communities for nearly nine decades. In the beginning, the College educated 100 students in classrooms on the Polytechnic High School campus.

On June 2, 1964, a separate five-person governing Board of Trustees was elected and the Riverside Junior College District was completely separated from the Riverside City School system. The legal entity which operates the college is officially known as the Riverside Community College District and encompasses the Alvord, Corona/ Norco, Jurupa, Moreno Valley, and Riverside Unified School Districts and the Val Verde School District.

On February 3, 1964, the Board of Trustees authorized the purchase of a second site for a future campus in the Sierra area of Riverside. On July 1, 1984, the Corona/Norco Unified School District was annexed to the Riverside Community College District and on June 4, 1985, more than 141 acres of federal United States Navy land in Norco was acquired from the General Services Administration by way of the United States Department of Education. On March 16, 1987, 112 acres of privately-owned land in Moreno Valley was donated to the college by the Robert P. Warington Company; in 1989, 20 more acres were added to the site.

The Moreno Valley and Norco Campuses, opened in March 1991, have grown rapidly and were granted initial accreditation in January 2010 (see the following Accreditation section). It is projected that by the year 2020, more than 57,000 students will attend classes at the three colleges.

**ACADEMIC FREEDOM**

The faculty, administration, and Board of Trustees subscribe to the American Association of University Professors’ 1940 Statement of Principles on Academic Freedom and Tenure:

“Institutions of higher education are conducted for the common good and not to further the interest of either the individual teacher or the institution as a whole. The common good depends upon the free search for truth and its free expression.”

“Academic freedom is essential to these purposes and applied to both teaching and research. Freedom in research is fundamental to the advancement of truth. Academic freedom in its teaching aspect is fundamental for the protection of the rights of the teacher in teaching and of the student to freedom in learning. It carries with it duties correlative with rights.”

“The teacher is entitled to full freedom in research and in the publication of the results, subject to the adequate performance of his/her other academic duties; but research for pecuniary return should be based upon an understanding with the authorities of the institution.”

“The teacher is entitled to freedom in the classroom in discussing his/her subject, but he/she should be careful not to introduce into his/her teaching controversial matters which have no relation to his/her subject.”

“Limitations of academic freedom because of religious or other aims of the institution should be clearly stated in writing at the time of the appointment.”

“The college or university teacher is a citizen, a member of a learned profession, and an officer of an educational institution. When he/she speaks or writes as a citizen, he/she should be free from institutional censorship and discipline, but his/her special position in the community imposes special obligations. As a person of learning and an educational officer, he/she should remember that the public judges his/her profession and his/her institution by his/her utterances. Hence he/she should at all times be accurate, should exercise appropriate restraint, should show respect for the opinions of others, and should make every effort to indicate that he/she is not an institutional spokesman.”

**ACCREDITATION**

Norco College was granted initial accreditation by the Accrediting Commission for Community and Junior colleges (ACCCJC) in January 2010. ACCCJA, 10 Commercial Blvd., Suite 204, Novato, CA 94949, 415-506-0234, is an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education.

Norco College is approved under the regulations of the Board of Governors, California Community Colleges, by the Office of Private Postsecondary Education for the training of veterans, by the United States State Department for non quota immigrant students, and by the United States Department of Education. The University of California, the California State University and Colleges and other colleges and universities give full credit for appropriate courses completed at Norco College.

**DISTRICT MEMBERSHIPS**

The three colleges of Riverside Community College District hold memberships in the Council for Higher Education Accreditation, the Accrediting Commission for Community and Junior Colleges, the Council on Law in Higher Education, the Commission on Athletics, the Community Colleges for International Education, the Community College League of California, the Consortium for North American Higher Education Collaboration, the American Council on Education, the Community College Leadership Development Initiatives, the College Board, the American Association of Community Colleges, the Hispanic Association of Colleges and Universities, The Riverside Downtown Partnership, the Greater Riverside Hispanic Chamber of Commerce, the Great Riverside Chamber of Commerce, the Corona Chamber of Commerce, the Norco Chamber of Commerce, the Greater Corona Hispanic Chamber of Commerce, the Moreno Valley Chamber of Commerce, Moreno Valley Hispanic Chamber of Commerce, and Moreno Valley African American Chamber of Commerce.

**STRATEGIC COMMUNICATIONS AND RELATIONS**

Service to the community is a significant function of all public two-year colleges. An important part of this service is to provide the public with information about the college and the activities of its students, and to work with the community to further common goals through sponsorships and partnerships. At Riverside Community College District this is the responsibility of the Strategic Communications and Relations office. College departments are assisted with enrollment-development marketing; securing newspaper, radio and cable TV publicity; and publicizing their programs through District print and online publications.

**ACADEMIC YEAR**

The academic year consists of fall and spring terms, which extend from August to June, plus a winter and a summer session. The calendar for the 2010-2011 academic year appears in the front of the catalog. Courses offered during the various sessions are similar in scope and maintain equivalent standards.
PROGRAM LENGTH
Courses that are part of the requirements for Associate of Science or Associate of Arts degree patterns as well as those that comprise state or locally approved certificate patterns and concentrations are scheduled in such a manner that students who attend either full or part time are able to successfully complete their goals within a reasonable length of time.

WHO MAY ATTEND
Individuals who meet any one of the following criteria are eligible to attend Riverside Community College District-Norco College:
- Have graduated from high school or
- Have passed the CA High School Proficiency Exam or
- Have passed the GED examination or
- Did not graduate from high school but are 18 years of age or older or
- Are an eligible high school student who has satisfied concurrent enrollment admissions requirements or
- Are an international student who has satisfied specific international student admissions requirements

Admission to Riverside Community College District-Norco College is regulated by state law as prescribed in the California Education Code.

Open Enrollment
It is the policy of the Riverside Community College District that, unless specifically exempted by statute, every course, course section or class, the average daily attendance of which is to be 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 college and who meets such prerequisites as may be established pursuant to Title 5 of the California Administrative Code.

High School Students/Concurrent Enrollment
The California Education Code Sections 48800, 48800.5 and 76001 (a) and (b) permit minor students to enroll in community college courses for college for the purpose of seeking advanced scholastic or vocational work (i.e. college level courses). For the summer term Education Code 48800 (d2) specifies that the principal of a school may recommend not more than five percent of the total number of students at any single grade level.

Students who have completed the 10th grade or reached their 16th birthday may apply for admission as a special student at a college in the Riverside Community College district. Individual departments determine which of their courses are appropriate for minor students. Students must submit required documents including: Application if a new or returning student, approval from a principal or certified school official and parent or guardian, RCC Concurrent Test results, and an official transcript by the deadlines for each term they wish to enroll. Students who do not meet the minimum test requirements can retest after one calendar year.

Students may apply to take 8 units or less for fall/spring terms and 5 units or less for winter/summer terms. High school students are required to pay health fees. Admission to the college does not guarantee registration in a class. Admitted students must attend the first day of class and seek permission to add. Students obtain application information and procedures at www.rcc.edu.

Dates/deadlines to complete and submit documents are: Summer Session: March 1 to May 31; Fall Semester: March 1 to August 15; Winter Intersession: October 1 to November 30; Spring Semester: October 1 to January 31. If dates fall on a weekend the deadline is the next business day. After the first two weeks of the term students may again apply for admission to shorter-term classes in the same term. Documents must be received at least two weeks prior to the start of the class.

Students who plan to continue attending a college in the Riverside Community College District after exiting high school must submit a new RCCD application as first-time college students.

ADMISSION AND REGISTRATION OF STUDENTS
Students need to apply if:
- They have never been a student at any college in the Riverside Community College District.
- They have not been in attendance at any RCCD college for at least two consecutive terms.
- They submitted an application for a future term and wish to attend a current one.

Online applications can be submitted any time at www.rcc.edu and take approximately 24 hours to process (weekends and holidays excepted). Computers and additional assistance are available at any RCCD Admissions office.

Schedule of Classes
A limited number of schedules are printed each term and are available in the Bookstore. The Schedule of Classes is also available at www.rcc.edu. Open classes can be viewed on WebAdvisor at www.rcc.edu.

Registration
Registration appointment dates and times as well as information on holds that may restrict registration may be viewed on WebAdvisor at www.rcc.edu approximately 6-8 weeks before the term begins. Students can register on Web Advisor on or after their scheduled appointment date and time through the end of the registration period. Before registering, students must complete any necessary requirements, i.e. Assessment, online Orientation/Counseling. Refer to the section on Matriculation: “Are You Exempt From Matriculation?” Students with a readmit contract are limited to the prescribed unit load approved by an academic counselor. Approved high school concurrent students must register in person at Admissions.

Students can pay fees by credit card on WebAdvisor, mail a check or money order or pay at one of the colleges. See the Schedule of Classes or www.rcc.edu for payment deadlines. My Account Summary can be viewed or printed on WebAdvisor.

All prerequisites will be enforced during registration and must be verified by high school and/or college transcripts.

Procedure for Adding and Dropping Classes
Once a class has begun, a student may only add a class with the instructor’s permission. Students can then add classes through WebAdvisor at www.rcc.edu with an authorization code obtained from the instructor. All adds must be completed by the Add deadline posted in the Class Schedule and on WebAdvisor.

Students may withdraw from courses by using WebAdvisor prior to the drop deadlines. If there is a hold restricting use of the web, the student may bring a completed ADD/DROP card to the Admissions counter at
any college and drop classes there. Deadlines to add, drop, and receive a refund are available on Web Advisor. It is the student’s responsibility to drop a class he/she no longer attends.

**Units for Full-Time/Part-Time Status**

For full-time status, a student must be enrolled in at least 12 units of credit for the fall/spring semesters and 6 units of credit for the winter/summer terms. Students who are enrolled in less than 12 units for fall/spring terms or less than 6 units for winter/summer are considered to be part-time. Specialized programs may have a different unit requirement for full-time status because of state mandates. The maximum amount of units a student may enroll in is 18 for fall and spring and 9 for winter and summer. Students wishing to enroll in more than 18 units must have an established GPA of 3.0 or higher. A counselor must sign an ADD card after verifying the GPA and the student must register in person for the over limit units.

**Attendance**

All students are expected to attend every session of every course in which they are enrolled. Failure to do so may indicate lack of serious purpose. Students who fail to attend the first class meeting and/or week may be dropped from the class. Religious observances and military duty, however, are excused. The student should inform their instructors prior to such an absence.

Work missed for unavoidable cause may be made up with the instructor’s approval. Under no circumstances will absence for any reason excuse the student from completing all the work assigned in a given course. After an absence, it is the responsibility of the student to check with the instructor about the completion of missed assignments.

For information on auditing classes, see the Graduation Requirements section.

**LIMITATIONS ON ENROLLMENT**

Riverside Community College District offers some courses which place limitations on enrollment. These limitations may include successful completion of courses, successful completion of online tutorials to demonstrate computer skills, preparation levels for math and English, performance criteria, or health and safety conditions. Students who do not meet the conditions imposed by these limitations will be blocked from enrolling in these classes.

**Remedial Limitation**

Riverside Community College District Board Policy 4222 limits the number of units students can earn for remedial/pre-collegiate basic skills courses to 24 semester units. Pre-collegiate/basic skills courses are defined as those two or more levels below college level English and one or more levels below elementary algebra. Riverside Community College District has designated certain courses as pre-collegiate basic skills courses. These courses include reading, writing, computation, learning skills and study skills designed to assist students in acquiring the skills needed for college level courses. These courses are considered non-degree applicable and earn credit but are not counted toward the 60 units required for the associate degree. Non-degree courses do apply toward: residency, athletic eligibility, work study and financial aid, veterans benefits, associated student body office, and full-time status. Non-degree credit status is indicated at the end of the course description.

**Exemptions to Remedial Limitation**

All developmental courses taken by students enrolled in English as a Second Language course are exempted. Students identified by the District for learning disabled programs are also exempted. Students with documented disabilities may petition the Admissions and Records Office for exemption status on a case-by-case basis.

**Prerequisite**

When a course has a prerequisite, it means that a student must have certain knowledge to be successful in the course. The prior knowledge may be a skill (type 40 wpm), an ability (speaks and writes French fluently), a placement preparation score, or successful completion of a course (grade C or better in CHE-1A). Completion of the prerequisite is required prior to enrolling in the class. Students who have completed a course at another institution for which they would like credit must fill out a Prerequisite Validation Form in order to have coursework on official transcripts validated for math, English, or other prerequisites. If you are currently enrolled in a prerequisite course at Riverside Community College District (i.e. Math 52), you will be allowed to register for the succeeding class (i.e. Math 35). However, if you do not pass the prerequisite course with at least a C grade, you will be dropped from the succeeding class. Successful completion of a prerequisite requires a grade of C or better, P (Pass), or CR (Credit). C-, D, F, NP (No Pass), NC (No Credit), or I grades are not acceptable.

**Corequisite**

When a course has a corequisite, it means that a student is required to take another course concurrent with or prior to enrollment in the course. Knowing the information presented in the corequisite course is considered necessary for a student to be successful in the course. (Completion of, or concurrent enrollment in, Math 1A is required for Physics 4A.)

It is the student’s responsibility to know and meet the course prerequisites and corequisites. These are stated in the course descriptions of the schedule of classes and the current college catalog. A student may be required to file proof of prerequisite and corequisite requirements.

**Advisory**

When a course has an advisory, it means that a student is recommended to have certain preparation before entering the course. The preparation is considered advantageous to a student’s success in the course. Since the preparation is advised, but not required, to meet the condition before or in conjunction with enrollment in the course (eligibility for ENG 1A is recommended) students will not be blocked from enrolling in a class if they do not meet the advisory.

**Official Evaluation of Credit Completed at Other Schools**

Students who have completed credit at RCCD or other institutions and wish to obtain a Riverside City College, Moreno Valley College or Norco College degree, certificate, or transfer to a CSU or UC, may request an official evaluation by completing a “Student Request for Official Evaluation” form. These forms are available in the Counseling Department. The student must currently be enrolled at RCCD. The official evaluation will be completed by the Evaluations Office once all official transcripts (ones that are received by RCCD directly from the issuing institution), are received. A copy of the completed evaluation will be forwarded to the student.

**Health Requirements**

It is recommended that each student new to Riverside Community College District have current immunizations and a physical examination by his or her family physician before enrolling. Students who plan to participate in intercollegiate athletics should contact the
physical education department about sports physicals. Student-Parents of the children in the Child Development Center must have a tuberculin skin test or a chest x-ray that is negative for tuberculosis. Their children are required to have this as well as be up to date on their immunizations of DPT, MMR, TOPV.

**MATRICULATION**

The matriculation program at the three colleges of Riverside Community College District is intended to assist students in establishing appropriate educational goals and to provide support services to help them achieve these goals. Students eligible for matriculation will be provided an evaluation of basic skills, orientation, counseling, completion of an educational plan and follow-up services. All first-time college students must complete Assessment, Orientation and Counseling prior to registering for classes.

**Assessment of Basic Skills**

Preparation levels are required for placement in English, ESL, mathematics, and reading courses. These placement levels are based on a combination of test scores and other academic experience. Because RCCD uses multiple measure placement criteria, placement levels are enforced as prerequisites to courses. Students who have a documented disability requiring a unique accommodation can take the test in the Office of Disabled Students Programs and Services. To request this service, call: (951) 372-7070 or TDD (951) 222-8061.

Most new students are required to take an assessment test upon initial entry into RCCD and before Counseling appointments can be made or enrollment into any classes. The Accuplacer test is used for placement into English, math and reading courses, and the PTESL (Proficiency Test in English as a Second Language) is used for placement into ESL courses. Some returning students and students transferring to RCCD from another college may need to test as well (Consult a counselor).

On the Norco College, Accuplacer and PTESL testing are scheduled on an appointment basis. Both tests are available at all RCCD colleges. Hours of operation are posted outside each Assessment Center and are available online (see link below). Students can also call to confirm hours of service: Norco (951) 372-7101.

Students are required to present photo identification in order to test; a state or federal issued driver’s license or ID is preferred, but passports and high school ID are also acceptable. In order to preserve a comfortable and quiet testing environment, only students taking the test can remain in the Assessment Center. Friends and family (including minors) who are not testing cannot remain in the room.

Students who have completed the Accuplacer test at another college can petition to have those test results evaluated for use at RCCD. The student’s Accuplacer test print-out (not a student records program print-out) showing the test raw scores must be submitted in person at one of the Assessment Centers along with a special Matriculation Appeal. Students must have completed the test no earlier than one year prior to submission for evaluation. Evaluations and processing takes from one to five working days.

Assessment tests are meant to be a one-time only assessment of your skills and abilities upon your initial entry into the college. Retesting is available under certain circumstances – consult a Counselor or visit the Assessment Web site (below).

Extensive information on assessment testing, test preparation, details of all tests available, sample questions, hours of operation and more is available at [http://www.rcc.edu/services/assessment/index.cfm](http://www.rcc.edu/services/assessment/index.cfm)

It is strongly recommended that students enroll in an appropriate composition course (English 1A, 50, 60A or 60B) during their first or second semester of enrollment. Students who do not meet Riverside Community College District’s reading competency requirement should also enroll in an appropriate reading class (Reading 81, 82 or 83) within their first 18 units undertaken at the college. Development of competent reading and writing skills is necessary for the student’s success as more and more college courses put increasing emphasis on the student’s ability to read at a college level and to write clear, correct English.

**Orientation/Counseling**

All first-time college students must complete a freshman on-line orientation/counseling session prior to registering for courses. This online session will introduce students to services and educational programs at Moreno Valley College; provide students with information on registration procedures and placement results; and assist students in developing their first semester educational plans. Student will be able access the on-line orientation and advisement session 48 hours after the completion of their assessment test. To access the session please log on to your WebAdvisor account and click on the on-line orientation link under the academic planning header. Students should make sure to develop a one semester student educational plan after completing the orientation presentation. The first semester educational plan link will appear shortly after on-line orientation is completed. If you have any further question please call (951) 571-6104 or stop by the Counseling department. New students, who did not complete Guidance 45, Introduction to College at their high schools, should register for this course during their first semester at RCCD.

**Counseling for Continuing Students**

Continuing matriculated students are entitled to see a counselor who can recommend appropriate coursework based on assessment results, review of past school records, and other information provided by the students. Students who have attended other college(s) must request to have an official transcript(s) sent to Norco College before scheduling counseling appointments or a Student Educational Plan.

All students pursuing certificate or degree programs, either Associate or Baccalaureate, should see their counselor each semester to review their “Student Educational Plans” (S.E.P.).

Are You Exempt From Matriculation Pre-Enrollment Requirements?

The following board approved criteria define exempt students at Riverside Community College District:

A. Students who have completed 60 or more units or who have graduated from an accredited U.S. college or university with an AA degree or higher.

B. First-time college students who have declared one of the following goals:
   - Advance in current career/job
   - Maintain certificate/license
   - Educational development
   - Complete credits for high school diploma

C. Students who are enrolled full time at another institution (high school or college) and will be taking five units or fewer.
Follow-Up
Counselors and teachers will provide follow-up activities on behalf of matriculated students. “Early Alert” follow-up activities are designed to inform students of their progress early in the semester and to continue to assist students in accomplishing their educational goals. “Probation/dismissal” activities help students make progress toward successful completion of their academic goals. Referrals for appropriate support services will be made to on-campus and off-campus locations when appropriate.

Students Rights and Responsibilities
Any student who does not meet a prerequisite or corequisite, or who is not permitted to enroll due to a limitation on enrollment but who provides satisfactory evidence may seek entry into the course as follows:
1. If space is available in a course when a student files a challenge to the prerequisite or corequisite, the District shall reserve a seat for the student and resolve the challenge within five (5) working days. If the challenge is upheld or the District fails to resolve the challenge within the five (5) working-day period, the student shall be allowed to enroll in the course.
2. If no space is available in the course when a challenge is filed, the challenge shall be resolved prior to the beginning of registration for the next term and, if the challenge is upheld, the student shall be permitted to enroll if space is available when the student registers for that subsequent term.

Students wishing to utilize the challenge procedure must contact Counseling and complete the required Matriculation Appeals Petition. Prerequisites and/or corequisites may be challenged based on the following criteria:
1. The prerequisite or corequisite has not been established in accordance with the District’s process for establishing prerequisites and corequisites;
2. The prerequisite or corequisite is in violation of Title 5, Section 55003;
3. The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner;
4. The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite;
5. The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available or such other grounds for challenge as may be established by the Board;
6. The student seeks to enroll and has not been allowed to enroll due to a limitation on enrollment established for a course that involves intercollegiate competition or public performance, or one or more of the courses for which enrollment has been limited to a cohort of students;
7. The student seeks to enroll in a course that has a prerequisite established to protect health and safety, and the student demonstrates that he or she does not pose a threat to himself or herself or others;

The student has the obligation to provide satisfactory evidence that the challenge should be upheld. However, where facts essential to a determination of whether the student’s challenge should be upheld are or ought to be in the District’s own records, then the District has the obligation to produce that information.

Unofficial transcripts may be submitted one time only with the Matriculation Appeals Petition to temporarily validate a prerequisite. However, official transcripts must be received prior to registration for the next term for permanent validation. “Official” is defined as transcripts no more than 90 days old and in a sealed envelope from the original institution.

Students may appeal to retake the placement test:
• After 12 months has passed from previous tests or
• Based on compelling evidence that the initial placement level is not an accurate reflection of the student’s abilities or
• After proof of appropriate academic intervention has occurred.

Please Note: Once the student has begun the course sequence, retesting is not an option.

It is the student’s responsibility to a) complete placement testing and orientation prior to registering for classes, b) express a broad educational intent upon admission and c) declare a specific educational goal by the time 15 semester units are completed. The student is also responsible for participating in counseling, attending class, completing assignments and maintaining progress toward that educational goal.

If you have questions regarding the matriculation process, please contact the Counseling Center at Norco (951) 372-7101.

Student Educational Plan
Counselors are available to assist matriculated students in developing an educational plan that outlines the courses and services necessary to achieve their goals. When goals or majors are changed, students must see a counselor to update their educational plan. To ensure this procedure, matriculated students are encouraged to make an appointment with a counselor. Due to a high demand for counseling during the winter and summer sessions, it is highly recommended that continuing students see a counselor during the spring and fall semesters to complete a Student Educational Plan.

A student’s college program will be more meaningful if he or she has acquired a clear educational objective. This may be a desire to broaden his or her knowledge as a foundation for upper division college work or to develop marketable occupational skills. A student undecided about objectives may receive help by studying the sections in the catalog entitled “Curricular Patterns.” The student is also invited to discuss personal goals with a college counselor.

FEES/RESIDENCY REQUIREMENTS

Enrollment Fees-California Residents
Students shall be classified as California residents for enrollment fee purposes when they have been a legal resident of California one year and one day prior to the term of application. The one year period begins when a student is not only present in California but also has demonstrated clear intent to become a permanent resident of California. Residency determination is made as of the first day of the
term of application. All documents needed to prove residency must be submitted prior to that date.

The enrollment fee for California residents is set per state legislation.

**Non-Resident Tuition and Fees**
A student who is not considered a California resident for enrollment fee purposes is eligible for admission to a college in the Riverside Community College District. Non-resident students are required to pay non-resident tuition in addition to the resident enrollment fees.

Out-of-country non-residents also pay a processing fee and a non-refundable per unit surcharge; they are also required to buy health insurance.

**AB 540 Non-Resident Fee Waiver**
A student who qualifies for the Non-Resident Fee Waiver will be exempt from paying the out-of-state tuition fee and will pay the per unit enrollment fee.

Any student other than a non-immigrant alien within the meaning of paragraph (15) of subsection (a) of Section 1101 of Title 8 of the United States Code, who meets all of the following requirements shall be exempt from paying non-resident tuition at Riverside Community College District if he/she signs an affidavit verifying:

1. High school attendance in California for three or more years.
2. Graduation from a California high school or attainment of the equivalent thereof (equivalent considered GED or high school proficiency test) must be obtained in the state of California.
3. In the case of a person without lawful immigration status, the filing of an affidavit (available in the Admissions office) stating that the student has filed an application to legalize his or her immigration status, or will file an application as soon as he/she is eligible to do so. Student information obtained in the implementation of this section is confidential.

A student who meets the qualifications for the Non-Resident Fee Waiver is exempt from paying out-of-state tuition and will pay the per unit resident enrollment fees. Students are not eligible for any state supported financial aid such as the Board of Governors Waiver, etc.

**Health Fee**
Every student is required to pay a health services fee per Title 5 state regulations. Students who rely on faith healing, or who are participating in approved apprenticeship programs are exempt from paying the health fee. Students must apply for this waiver by submitting a Health Services Fee Waiver Request and supporting documentation to the Health Services office. The form is available from the Health Services office. Students who qualify for a Board of Governor’s Waiver (BOGW) must pay the health fee.

**Parking**
Parking permits can be purchased on WebAdvisor at www.rcc.edu, price includes shipping and handling. To waive shipping and handling, permits may also be purchased at the cashier’s office. Special parking is provided to the physically handicapped at the same cost. Student permit enforcement in student parking spaces is suspended the first two weeks of the term.

**Transportation Fee**
Fee provides free transportation on RTA fixed routes for students with Riverside City College and Moreno Valley College photo ID cards. Fees vary according to full-time or part-time status.

**Library/Learning Resource Center Fees**
Overdue fines:
- General Collection – Overdue fines will be levied at 20 cents per day per item.
- Hourly Reserves – Overdue fines will be levied at $1.00 per hour per item.

Replacement bills:
If materials are not returned, they are declared “lost.” A bill will be issued for each lost item which will include: 1) The actual replacement cost of the item or $25.00 for out of print materials; 2) A processing fee of $10.00; and 3) Any overdue fines (the maximum overdue fine is $20.00).

Refunds:
If the item is returned after the bill is issued (within 1 year) the replacement cost and processing fee will be waived or refunded, however, the overdue fines will still be charged.

Library card fees:
Community members may purchase a library card for $5.00 per term upon proof of District residency, and age of 16 years or older (California Driver License, California Identification Card, or Military Identification Card).

**Books, Equipment and Supplies**
The cost of books and equipment depends upon the courses elected and the amount of work undertaken. The average yearly expenditure for books and materials is approximately $1000, but if used books are purchased, the cost can be reduced.

In some courses, students will be expected to provide consumable items. In such classes, students will be informed of these items at the first meeting and will be expected to purchase them in order to continue in these classes. Whenever possible, the RCCD Bookstore at all three colleges will attempt to stock the required supplies.

**Check Policy:**
The RCCD Bookstore will gladly accept checks with the following information.

1. Your name and address MUST be preprinted on the check.
2. If the check is in your parent’s name, we require that you have student ID and driver’s license, along with the Drivers License number and expiration date of the account holder written on the check.

The bookstore also accepts MasterCard, VISA, American Express and ATM debit cards (with VISA or MasterCard logos). If you are using your parent’s credit card, you MUST have a written authorization letter from them with a signature on both the letter and the card.

Full refunds are given on textbooks during the first 2 weeks of school only. If you drop a class you have 30 days from the start of school to return for a full refund. All returns/exchanges require an original receipt. The bookstore will also buy back books from students for half
price at the end of each semester during a designated time if they are to be used again and there is a need for them.

**Other Charges**
An appropriate charge will be made for breakage of district supplied materials in laboratory courses.

**RCCD Transcripts**
The RCCD transcript includes only coursework completed at a college in the Riverside Community College District. Official student transcripts may be requested on Web Advisor at www.rcc.edu, in the Admissions office at the Student Service office.

The first two official transcripts are free. There is a fee for each additional official transcript requested. For faster service there is an additional fee for each official transcript. Transcripts are mailed with first class postage. Unofficial transcripts are available free on Web Advisor. For more information regarding official transcripts, call (951) 222-8603.

**Other Transcripts**
Transcripts from other accredited institutions, submitted as official documentation of a student’s record, must be printed no more than 90 days/3 months ago and be in a sealed envelope from the institution. Students must fill out a Prerequisite Validation form at the Counseling counter in order to have course work on official transcripts validated for English, Mathematics, and other prerequisites. Transcripts submitted become the property of Riverside Community College District and cannot be returned to the student nor be forwarded to another institution. When a student has three consecutive years of non-attendance at RCCD, transcripts from other institutions will be purged from the student’s record. If the student returns to RCCD after three years of non-attendance, new official transcripts from all other accredited institutions will be required. Students planning to graduate from Riverside Community College District, or needing to use courses from another college/university as a prerequisite, must submit all official transcripts to RCCD. See Section III Graduation Requirements in this catalog for further information on course acceptance from other institutions.

**International Students in F-1 Visa Status**
Under federal law, Riverside Community College District is authorized to enroll nonimmigrant alien students on F-1 student visas for study toward an Associate of Arts or Science degree; for the first half of study toward a Baccalaureate Degree; and for certificate programs. About 300 students from 60 countries attend RCCD each semester, with the majority transferring to four-year institutions. All F-1 Visa students are subject to nonresident tuition as set by the Board of Trustees.

**REFUND DEADLINES FOR FEES**
RCCD shall refund any enrollment fee paid by a student for withdrawal from a class during the first two weeks of instruction for a full-term 16 week course and the 10 percent point of the length of the course for a short-term course. Refund deadlines are available on Web Advisor at www.rcc.edu.

**Holds on Records**
Grades, transcripts, diplomas and registration privileges will be withheld from any student or former student who has failed to pay a proper financial obligation due to the district. Any item or items will be released when the student satisfactorily meets the financial obligation.

**MILITARY AND VETERAN STUDENTS AND FAMILY MEMBERS**
RCCD exempts students from non-resident tuition who are members of the armed forces of the United States stationed in this state on active duty, except those assigned to California for educational purposes. A student who is a natural or adopted child, stepchild, or spouse who is a dependent of a member of the armed forces is also exempt from non-resident tuition.

Dependents of certain veterans are exempt from paying enrollment fees. (1) Any dependent eligible to receive assistance under Article 2 of chapter 4 of division 4 of the Military and Veterans Code. (2) Any child of any veteran of the US military who has a service-connected disability, has been killed in service, or has died of a service-connected disability, where the Dept of Veterans Affairs determines the child eligible. (3) Any dependent, or surviving spouse who has not remarried, of any member of the CA National Guard who, in the line of duty, and while in the active service of the state, was killed, died of a disability resulting from an event while in active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state. (4) Any undergraduate student who is a recipient of a Congressional Medal of Honor and who is under 27 years old, provided his/her income, including parental support, does not exceed the national poverty level and the parental recipient of the Medal of Honor was a CA resident at the time of his or her death. Students who feel they are eligible for a fee exemption should contact the Department of Veterans Affairs for more information.

**ALL FEES ARE SUBJECT TO CHANGE DUE TO STATE LEGISLATIVE ACTION OR RCCD BOARD POLICY CHANGES**

**VETERANS ASSISTANCE**
Riverside Community College District provides assistance to veterans for the following benefit programs:

1. Active Duty Educational Assistance Program – Montgomery GI Bill – Chapter 30
2. Vietnam Era GI Bill – Montgomery GI Bill – Chapter 34/40
3. Selected Reserve Educational Assistance Program – Montgomery GI Bill – Chapter 1606
4. Vocational Rehabilitation – Chapter 31
5. Post-Vietnam Era Veterans Educational Assistance Program (VEAP) – Chapter 32
6. Survivors and Dependents Educational Assistance Program – Chapter 35
7. Reserve Educational Assistance Program (REAP), Chapter 1607.

Veterans seeking to use VA Educational Benefits apply online to the VA at www.gibill.va.gov for their certificate of eligibility. A copy must be given to the RCCD Veterans’ Services office or to the Student Services office. For questions regarding pay, Certificate of Eligibility or benefits call 1-888-GIBILL-1.

While waiting for the Certificate of Eligibility veterans should continue with RCCD policies and procedures in order to enroll and be certified for payment. Veterans apply to RCCD online at www.rcc.edu and complete any required assessment testing and/or online orientation.
Veterans may also be eligible for other financial aid and are encouraged to submit the FAFSA (Free Application for Federal Student Aid) online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

Before a VA Student Education Plan (SEP) can be developed, all transcripts must be received by the college in order to have prior credit evaluated. Transcripts must be official, sealed and printed less than 90 days ago. After transcripts are received veterans are referred to a counselor for a VA approved Student Education Plan. After receiving the SEP veterans can register for approved classes. Check the VA website [www.gibill.va.gov](http://www.gibill.va.gov) for the listing of VA approved programs at RCCD.

After registering, veterans must turn in the Veteran’s Statement of Responsibility (Blue Sheet) to the Student Services office. This “Blue Sheet” is required in order for enrollment certification to be submitted to the VA; the process may take 2-3 weeks. This form must be submitted to RCCD every term in order to request benefits and to avoid being dropped for nonpayment.

Veterans are eligible for priority registration for two years after being discharged from active duty. In order to be eligible veterans must take a copy of their DD214 discharge papers to the Student Services office. Staff there will tell eligible veterans their priority registration dates.

Veterans’ assistance is available in Admissions. Contact the RCCD Admissions Office at (951) 372-7003 or email Admissions Norco@rccd.edu for more information.

Riverside Community College District is a member of the Service-members Opportunity Colleges (SOC). This consortium of national higher education associations functions in cooperation with the Dept. of Defense (DOD), the Military Services including the National Guard, and the Coast Guard to help meet the voluntary higher education needs of servicemembers.

RESERVE OFFICER TRAINING CORPS
Riverside Community College District students interested in the ROTC commissioning program can enroll in the Army ROTC program located at the Claremont Colleges, or the Air Force ROTC program located at Loyola Marymount University and taught at various locations throughout the greater Los Angeles area.

ARMY AND AIR FORCE ROTC PROGRAMS

**Army ROTC**

Through a cooperative arrangement sponsored by the Claremont Colleges and the Army, students can take the preliminary ROTC training at no cost while attending a community college. The Department of Military Science at the Claremont Colleges offers basic classes at California State University, San Bernardino and the Claremont Colleges. A student attends class each week for the initial year and the second year of ROTC training. Completion of this program permits a student transferring to a four-year institution full junior status in ROTC upon transfer. Completion of the community college portion of this program also could provide advanced grade placement should the student choose to serve in the military as an enlisted person.

Those interested in finding out more about Army ROTC should contact the Professor of Military Science, California State University, 5500 State University Parkway, San Bernardino, CA 92407-2397, Room SS124, Telephone (909) 537-5533.

**Air Force ROTC**

Air Force Reserve Officer Training Corps (AFROTC) offers two, three, and four-year programs leading to a commission as a second lieutenant in the United States Air Force. The AFROTC program is open to almost all students pursuing baccalaureate and graduate degrees. Classes consist of one hour of academics and two hours of leadership laboratory per week for freshmen and sophomores and three hours of academics and two hours of leadership laboratory per week for juniors and seniors. AFROTC offers numerous scholarship opportunities, but scholarships are not required to participate in the program. AFROTC offers a variety of one- to four-year scholarships valued up to 100% annual tuition, along with a nontaxable monthly stipend. Air Force ROTC is offered on the campuses of the University of Southern California, California State University-San Bernardino, and Harvey Mudd College. You do not need to be a student of any of these colleges to get involved. For more information contact the Department of Aerospace Studies at (213) 740-2670 or visit [www.usc.edu/afrotc](http://www.usc.edu/afrotc). No military commitment is incurred until entering the junior year of the program or receipt of a scholarship after freshman year.

Regarding These Programs

For more information, contact the Loyola Marymount University Department of Aerospace Studies (AFROTC) at (310) 338-2770. Other AFROTC detachments are located at: University of California, Los Angeles, (310) 825-1742; University of Southern California, (213) 740-2670; San Diego State University, (619) 594-5545; and California State University, San Bernardino (909) 537-5440.

**SPECIAL SUPPORTIVE SERVICES**

**Disabled Student Services**

The colleges of Riverside Community College District offer a comprehensive program of support services to students with a documented disability. Students who have an acquired brain injury, physical disabilities, hearing impairments, learning disabilities, developmental disabilities, psychological disabilities, other health impairments, and temporary disabilities are eligible for the services which are provided according to individual need.

**FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)**

Riverside Community College District adheres to the policies of the Family Educational Rights and Privacy Act (FERPA) when establishing and maintaining education records. Although the college applies the provisions of FERPA in a strict manner, the law allows the college to release student directory information. RCCD, based on FERPA regulations, designates as directory information the following: student’s name, address, telephone listing, e-mail, major field of study, dates of attendance, enrollment status, (e.g., full-time/part-time) participation in officially recognized activities and sports, weight and height of members of athletic teams, degree and awards received, the most recent previous public or private school attended by the student, and any other information authorized in writing by the students.

Students have the opportunity to request that their directory information be maintained as confidential. In completing the admission application, students are provided this opportunity. Students who are continuing students with RCCD may go to the Student Services office at the Moreno Valley College or Norco College or to the Admissions and Records office at the Riverside City College and request to have directory information withheld.
The student’s prior written consent is not required to disclose non-directory information under specific conditions according to FERPA regulations. Included under this provision is the ability to disclosure education records to parents of a student under 18 years of age as defined in Section 152 of the Internal Revenue Code of 1986. Refer to www.rcc.edu/ferpa/ for more information.

The Family Education Right and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student’s education records within 45 days of the date RCCD receives a request for access. Copies are not provided if the student has an outstanding financial or other hold on the records. The District may assess a charge pursuant to Board Policy Regulation 3300 for furnishing copies of any education record. Students should submit to the Admissions and Records, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The RCCD official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the RCCD official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes are inaccurate or misleading. Students may ask RCCD to amend a record that they believe is inaccurate or misleading. They should write the RCCD official responsible for the record, clearly identify the part of the record they want to changed, and specify why it is inaccurate or misleading. If RCCD decides not to amend the record as requested by the student, RCCD will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedure will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorized disclosure without consent. One exception which permits disclosure without consent is disclosure to college officials with legitimate educational interests. A college official is a person employed by RCCD in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom RCCD has contracted (such as an attorney, auditor, collection agent or agents or organizations conducting studies on behalf of the college); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another college official in performing his or her tasks. A college official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility. Upon request, RCCD discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by RCCD to comply with the requirements of FERPA.

The Riverside Community College District is dedicated to maintaining the absolute integrity of all student records as well as protecting the student’s rights of access to those records. To this end, Administrative Regulations for granting of requests to inspect and review records are detailed in Board Policy 5040.

It is the responsibility of the student to advise the Admissions and Records Office of any change in address or telephone number. Change of information forms are also available at www.rcc.edu.
COMMUNITY TO DIVERSITY, NONDISCRIMINATION AND PROHIBITION OF HARASSMENT AND RETALIATION POLICIES

Board Policy 7100 Commitment to Diversity
Board Policy 3410 Nondiscrimination
Board Policy 3430 Prohibition of Harassment and Retaliation

A complete copy of the Board Policies cited can be found at www.rcc.edu/board or www.rcc.edu/administration/hr/dec.cfm, or by calling (951) 222-8039.

COMMUNITY TO DIVERSITY
Riverside Community College District is committed to building a diverse and accessible environment that fosters intellectual and social advancement. All District programs and activities seek to affirm pluralism of beliefs and opinions, including diversity of religion, gender, ethnicity, race, sexual orientation, disability, age and socioeconomic class. Diversity is encouraged and welcomed because RCCD recognizes that our differences as well as our commonalities promote integrity and resilience that prepares our students for the evolving and changing community we serve.

NONDISCRIMINATION
The Riverside Community College District Board of Trustees has adopted policies and procedures that comply with Federal and State laws relating to prohibition of discrimination and/or harassment on the basis of an actual, perceived or association with others: disability, sex/gender, nationality, race or ethnicity, age (40+), religion, sexual orientation, marital status, Vietnam Veteran status or any characteristic listed or defined in Section 11135 of the Government Code or any characteristic that is contained in the prohibition of hate crimes set forth in subdivision (a) of Section 422.6 or the Penal Code.

PROHIBITION OF HARASSMENT AND RETALIATION
All forms of harassment are contrary to basic standards of conduct between individuals and are prohibited by state and federal law, as well as this policy, and will not be tolerated. The District is committed to providing an academic and work environment that respects the dignity of individuals and groups. The District shall be free of sexual harassment and all forms of sexual intimidation and exploitation. It shall also be free of other unlawful harassment, including that which is based on actual or perceived disability, sex/gender, nationality, race or ethnicity, religion, sexual orientation, age, or any characteristic listed or defined in Section 11135 of the government code or any characteristic that is contained in the prohibition of hate crimes set forth in subdivision (a) of Section 422.6 of the Penal Code.

This policy applies to all aspects of the academic environment, including but not limited to classroom conditions, grades, academic standing, employment opportunities, scholarships, recommendations, disciplinary actions, and participation in any community college activity.

The District seeks to foster an environment in which all employees and students feel free to report incidents of harassment without fear of retaliation or reprisal. Retaliation may involve, but is not limited to, the making of reprisals or threats of reprisals, intimidation, coercion, discrimination or harassment following the initiation of an informal or formal complaint. Such conduct is illegal and constitutes a violation of this policy.

COMPROMETIMIENTO A LA DIVERSIDAD
El Distrito de Riverside Community College esta comprometido a construir un ambiente accesible y diverso que adopta avance intelectual y social. Todos los programas y actividades del Distrito buscan afirmar pluralismo de las creencias y opiniones, incluyendo diversidad en la religión, género, étnicidad, raza, orientación sexual, discapacidades, edad y estado social económico. Alentamos y acogemos diversidad porque RCCD reconoce que nuestras diferencias al igual que nuestras igualdades promueven integridad y fortaleza que prepara a nuestros estudiantes para evolucionar y cambiar la comunidad que servimos.

NO DISCRIMINACIÓN
El Consejo Directivo del Distrito de Riverside Community College ha adoptado políticas y procedimientos que cumplen con las leyes federales y estatales relacionadas a la prohibición y/o de acoso basados en la actual, percibida, o asociada: incapacidad física, sexo/género, nacionalidad, raza o grupo étnico, edad (40+), religión, orientación sexual, estado marital, estado de Veterano de Vietnam, o cualquier característica enumerada o definida en la Sección 11135 del Código de Gobierno o cualquiera característica que esta contenida en la prohibición de crímenes de odio contenidos en la subdivisión (a) de la Sección 422.6 o el Código Penal.

PROHIBICIÓN DE ACOSO Y REPRESALIAS
Todas las formas de acoso son en contra de los niveles básicos de conducta entre los individuos y son prohibidos por la ley del estado federal, al igual que nuestra póliza, y no será tolerado. El Distrito esta comprometido a proveer un medio de trabajo académico que respete la dignidad de los individuos y grupos. El Distrito será libre de acoso sexual y todas las formas de intimidación sexual y explotación. También será libre de otros acosos alérgicos, incluyendo aquel que este basado en percepción o real discapacidad, sexo/género, nacionalidad, raza étnicidad, religión, orientación sexual, edad o alguna característica nombrada o definida en la Sección 11135 del código o cualquier característica que esta contenida en la prohibición de odio y crímenes establecidos en la subdivisión (a) Código Penal Sección 422.6.

Esta póliza aplica todos los aspectos del medio académico incluyendo pero no limitado a las reglas del aula, grado, estado académico, oportunidades de empleo, becas, recomendaciones, acciones disciplinarias y cualquier participación de actividad en un colegio comunitario.

El Distrito busca acoger un ambiente en el cual todos los empleados y estudiantes se sienten libres de denunciar incidentes de acoso sin miedo a amenazas o represalias. Represalias pueden involucrar pero no están limitadas a hacer amenazas, el acto de represalias o hacer amenazas, intimidación, coerción, discriminación o acoso seguido por el inicio de una queja formal o informal. Tal comportamiento es ilegal y constituye la violación de esta póliza.
Therefore, the District also strictly prohibits retaliation against any individual for filing a complaint, who refers a matter for investigation or complaint, who participates in an investigation, who represents or serves as an advocate for an alleged victim or alleged offender, or who otherwise furthers the principles of unlawful discrimination or harassment.

FILING A COMPLAINT
This is a summary of your right to file an informal or formal complaint of discrimination or sexual harassment. This is only a summary. Please see Board Policies and Administrative procedures BP/AP3410 and BP/AP3430, and AP3435 for the complete District procedure.

INFORMAL/FORMAL COMPLAINT PROCEDURE:
• You have the right to request that the charges be resolved informally, at which time the District will undertake efforts to informally resolve the charges.
• You do not need to participate in informal resolution.
• You have the right to file a formal complaint, even if you have previously requested informal resolution (see below for the procedure for doing so).
• You will not be required to confront or work out problems with the person accused of unlawful discrimination.
• You may file a non-employment-based complaint with the U.S. Department of Education Office for Civil Rights (OCR) where such a complaint is within that agency’s jurisdiction.
• If your complaint is employment-related, you may file a complaint with the U.S. Equal Employment Opportunity Commission (EEOC) and/or the California Department of Fair Employment and Housing (DFEH) where such a complaint is within that agency’s jurisdiction.
• Retaliation is unlawful. If you feel you are being retaliated against as a result of filing a complaint, please contact the RCCD Diversity and Human Resources Department immediately.

PURPOSE OF THE INFORMAL RESOLUTION PROCESS:
The purpose of the informal resolution process is to allow an individual who believes she/he has been unlawfully discriminated against to resolve the issue through a mediation process rather than the formal complaint process. Typically, the informal process will be invoked when there is a simple misunderstanding or you do not wish to file a formal complaint. Resolution of an informal complaint may require nothing more than a clarification of the misunderstanding or an apology from the alleged offender and an assurance that the offending behavior will cease. You will be notified of the outcome of the investigation in the informal process, and will also be notified of the resolution proposed by the District.

If you pursue the informal process, you should note the following important points:
• You will need to sign a document which indicates that you have selected the informal resolution process.
• The District will complete its investigation within the time period required by Board Policy unless you voluntarily rescind your complaint prior to completion.

Selecting the informal resolution process does not prevent you from later deciding to file a formal complaint (subject to all of the rules for filing a formal complaint). You can do this while the informal process is still underway, or if the informal process has been completed and

Por lo tanto, el Distrito también prohíbe rigurosamente represalias en contra de cualquier individuo por archivar una queja, que remite a un motivo de investigación o queja, quien participe en una investigación, que representa o sirve como un abogado por una presunta víctima o un presunto delincuente, o cualquier premovimiento de los principios de discriminación ilegal o acoso.

HACER UNA QUEJA
Este es un resumen del derecho que usted tiene a presentar una queja formal de discriminación o de acoso sexual. Esto es sólo un resumen. Por favor vea las Políticas de la Junta Directiva Escolar y los Procedimientos Administrativos BP/AP 3410 y BP/AP 3430, y AP 3435 para el procedimiento completo del Distrito.

PROCEDIMIENTO PARA UNA QUEJA FORMAL/INFORMAL:
• Usted tiene derecho a solicitar que los cargos sean resueltos informalmente, durante este tiempo, el Distrito se encargará de hacer lo necesario para solucionar los cargos informalmente.
• Usted no necesita participar en una resolución informal.
• Usted tiene derecho a presentar una queja formal, aún en el caso que anteriormente haya solicitado una resolución informal (mire la parte posterior para el procedimiento a seguir en este caso).
• A usted no se le pedirá que confronte o que trate de resolver los problemas con la persona acusada de discriminación ilícita.
• Usted puede presentar una queja basada en el rehuso de empleo en la Oficina del Departamento de Educación de Estados Unidos de Derechos Civiles (OCR, por sus siglas en inglés) siempre y cuando dicha queja esté dentro de la jurisdicción de esa agencia.
• Si su queja es relacionada a empleo, usted puede presentar una queja en la Comisión de Estados Unidos de Igualdad en Oportunidad de Empleo (EEOC, por sus siglas en inglés) y/o el Departamento de Igualdad en el Empleo y la Vivienda (DFEH, por sus siglas en inglés) siempre y cuando dicha queja esté dentro de la jurisdicción de esa agencia.
• Están prohibidas las represalias. Si usted siente que están usando represalias en su contra como resultado de haber presentado una queja, por favor pongase en contacto con el Departamento de Diversidad y Recursos Humanos de RCCD.

EL PROPOSITO DE LA RESOLUCION INFORMAL:
El propósito del proceso en una resolución informal es permitir que un individuo, el cual cree ha sido ilícitamente discriminado en contra, pueda resolver la situación por medio de un proceso de mediación en lugar de un proceso de queja formal. Típicamente, el proceso informal será invocado cuando haya un simple malentendido, o usted no desee presentar una queja formal. La resolución de una queja informal puede que no requiera más que una aclaración del malentendido o una disculpa por parte del supuesto ofensor y una declaración de que el comportamiento ofensivo cesará. Usted será notificado acerca del resultado de la investigación del proceso informal, y también será notificado de la resolución propuesta por el Distrito.

Si usted da seguimiento al proceso informal, deberá tomar en cuenta los siguientes puntos importantes:
• Usted necesitará firmar un documento el cual indique que usted ha elegido el proceso de la resolución informal.
• El Distrito completará su investigación en el período de tiempo requerido por la política de la Junta Directiva Escolar, a menos que usted voluntariamente rescinda su queja antes de ser terminada la investigación.
you are not satisfied with the outcome of the District’s proposed resolution, provided that the time period for filing a formal complaint has not passed.

HOW TO FILE A FORMAL COMPLAINT:

- The complaint must be filed on a form prescribed by the State Chancellor’s Office. That form is available at www.rcc.edu/administration/board/policies.cfm, www.rcc.edu/administration/hr/dec.cfm, from the Diversity and Human Resources Department, or on the State Chancellor’s Web page at www.cccco.edu.
- The complaint must allege unlawful discrimination prohibited under Title 5, Section 59300.
- The complaint must be filed by one who alleges that she/he has personally suffered unlawful discrimination or by one who has learned of such unlawful discrimination in her/his official capacity as a faculty member or administrator.
- In any complaint not involving employment, the complaint must be filed within one year of the date of the alleged unlawful discrimination or within one year of the date on which you knew or should have known of the facts underlying the specific incident or incidents of alleged unlawful discrimination.
- In any complaint alleging discrimination in employment, the complaint shall be filed within 180 days of the date the alleged unlawful discrimination occurred, except that this period will be extended by no more than 90 days following the expiration of that 180 days if you first obtained knowledge of the facts of the alleged violation after the expiration of 180 days.
- You can file a complaint with the:
  Director
  Diversity, Equity and Compliance
  Riverside Community College District
  3845 Market Street
  Riverside, CA 92501-3244
  (951) 222-8039
  or with the:
  Legal Affairs Division
  Office of the Chancellor
  California Community Colleges
  1102 Q Street
  Sacramento, CA 95811-6549

WHAT HAPPENS WHEN A FORMAL COMPLAINT IS FILED?

The District will then conduct an investigation. Within 90 days of receiving an unlawful discrimination complaint filed under Title 5, Sections 59300 et seq., the District will complete the investigation and forward a copy of the investigative report, or a summary, to you along with a notice of your right to appeal to the District Board of Trustees and the State Chancellor’s Office. The investigative report, or summary, is the District’s Administrative Determination.

COMPLAINANT’S APPEAL RIGHTS

You, as the complainant, have appeal rights that you may exercise if you are not satisfied with the results of the District’s Administrative Determination. At the time the investigative report and/or summary is mailed to you, the responsible District officer or her/his designee

El seleccionar el proceso de resolución informal, no le previene a usted el poder tomar la decisión después de presentar una queja formal (sujeto a todas las reglas al presentar una queja formal). Usted puede hacer esto mientras el proceso informal está en curso, o si el proceso informal ha sido completado y usted no está satisfecho con el resultado o la propuesta resolución hecha por el Distrito, siempre y cuando que el período de tiempo para presentar una queja formal no haya terminado.

COMO PRESENTAR UNA QUEJA FORMAL:

- La queja debe ser presentada utilizando el formulario indicado por la oficina del Rector del Estado. El formulario está disponible en www.rcc.edu/administration/board/policies.cfm, www.rcc.edu/administration/hr/dec.cfm, en la oficina de Diversidad y Recursos Humanos, o en la página de internet del Rector del Estado en www.cccco.edu.
- Le queja debe declarar discriminación ilegítima bajo el Título 5, sección 59300.
- Le queja debe ser presentada por la persona que declara que ella/el ha sufrido personalmente discriminación ilegítima o por aquella persona que se ha enterado de tal discriminación ilegítima en su función oficial como miembro de la facultad o administrador.
- En cualquier queja que no involucre un empleo, la queja deberá ser presentada en el espacio de un año a partir de la fecha de la presunta discriminación ilegítima o en el espacio de un año a partir de la fecha en la cual usted se enteró o debió haberse enterado de los hechos que fundamentan el incidente específico o los incidents de la presunta discriminación ilegítima.
- En situaciones en que la queja afirme discriminación en el empleo, la queja deberá ser presentada en el espacio de 180 días a partir de la fecha en que la presunta discriminación ilegítima ocurrió, con la excepción de que este periodo será extendido por no más de 90 días seguido a la fecha de expiración de los 180 días, si usted se enteró o tuvo conocimiento de los hechos de la supuesta discriminación después de la fecha de expiración de los 180 días.
- Usted puede presentar una queja con el:

  Director
  Diversity, Equity and Compliance
  Riverside Community College District
  3845 Market Street
  Riverside, CA 92501-3244
  (951) 222-8039
  o con:
  Legal Affairs Division
  Office of the Chancellor
  California Community Colleges
  1102 Q Street
  Sacramento, CA 95811-6549

¿QUE SUCEDERÁ CUANDO UNA QUEJA FORMAL SE PRESENTA?

El Distrito entonces conducirá una investigación. A partir de 90 días de haber recibido la queja de la presunta discriminación bajo el Título 5, secciones 59300 et seq., el Distrito completará la investigación y le enviará una copia del reporte investigativo, o un resumen a usted, junto con la notificación de su derecho a apelar la decisión ante la Junta Directiva Estudiantil del Distrito y la oficina del Rector del Estado. Este reporte es la Determinación Administrativa del Distrito.
will notify you of your appeal rights as follows:

**ALL APPEALS MUST BE IN WRITING**

(E-mail is not a satisfactory method.)

**First Level of Appeal:** You have the right to file an appeal with the District’s Board of Trustees within fifteen (15) calendar days from the date of the Administrative Determination. The District’s Board of Trustees will review the original complaint, the Administrative Determination, and the appeal.

In order to appeal to the District’s Board of Trustees, please send a written request within the required time period to the attention of:

District Board of Trustees  
c/o Diversity, Equity and Compliance  
Riverside Community College District  
3845 Market Street  
Riverside, CA 92501-3244

The District’s Board of Trustees will issue a final District decision in the matter within forty-five (45) calendar days after receiving the appeal. Alternatively, the District’s Board of Trustees may elect to take no action within forty-five (45) calendar days, in which case the Administrative Determination will be deemed to be affirmed and shall become the final District decision in the matter. A copy of the final decision rendered by the District’s Board of Trustees will be forwarded to you and to the State Chancellor’s Office.

**Second Level of Appeal:** You have the right to file an appeal with the California Community Colleges Chancellor’s Office in any case not involving employment-related discrimination within thirty (30) calendar days from the date that the District’s Board of Trustees issues the final District decision or permits the Administration Determination to become final by taking no action within forty-five (45) calendar days. The appeal must be accompanied by a copy of the decision of the District Board of Trustees or evidence showing the date on which complainant filed an appeal with the District Board of Trustees within forty-five (45) calendar days from that date.

In any case involving employment-related discrimination, you have the right to file an appeal with the Department of Fair Employment and Housing (DFEH) or the U.S. Equal Employment Opportunity Commission (OCR).

**DERECHOS DE APELACIÓN DE LA PERSONA AFECTADA**

Usted, como persona afectada, tiene derechos que puede ejercer para apelar si usted no está satisfecho con los resultados de la Determinación Administrativa del Distrito. En el momento en que el resumen investigativo y/o el resumen le sea enviado a usted por correo, el oficial responsable del Distrito y/o su designado/a le notificará a usted acerca de los derechos que tiene para solicitar una apelación de la siguiente manera:

**TODAS LAS APELACIONES DEBERAN SER HECHAS POR ESCRITO**

(El correo electrónico no es un método satisfactorio.)

Primer Nivel de Apelación: Usted tiene el derecho de solicitar una apelación a los Miembros de la Junta Directiva Escolar en el espacio de 15 días del calendario a partir de la fecha en que la Determinación Administrativa fue hecha. Los Miembros de la Junta Directiva Escolar revisarán la queja original, la Determinación Administrativa y la apelación.

Por favor envíe una petición hecha por escrito para poder solicitar una apelación a los Miembros de la Junta Directiva Escolar en el periodo de tiempo indicado, dirigido con atención a:

District Board of Trustees  
c/o Diversity, Equity and Compliance  
Riverside Community College District  
3845 Market Street  
Riverside, CA 92501-3244

Los miembros de la Junta Directiva Escolar darán una decisión final del Distrito acerca del asunto en el espacio de 45 días del calendario, después de haber recibido la apelación. Alternativamente, los Miembros de la Junta Directiva Escolar pueden elegir no tomar ninguna acción en el espacio de 45 días del calendario, en este caso la decisión original en cuanto a la Determinación Administrativa será considerada afirmativa y será la decisión final del Distrito en este asunto. Usted recibirá una copia de la decisión final retenida por los Miembros de la Junta Directiva Escolar del Distrito y otra copia será enviada a la oficina del Rector del Estado.

Segundo Nivel de Apelación: Usted tiene el derecho de solicitar una apelación a la oficina del Rector de Colegios Comunitarios de California en cualquier caso que no involucre discriminación relacionada con el empleo, en el espacio de 30 días del calendario a partir de la fecha en que los Miembros de la Junta Directiva Escolar dictaminen la Decisión final del Distrito o permitan que la Determinación Administrativa sea la Decisión final al no tomar ninguna acción el el espacio de 45 días del calendario. La apelación debe ser acompañada de una copia de la decisión de los Miembros de la Junta Directiva Escolar del Distrito o evidencia mostrando la fecha en que el afectado solicitó una apelación a la Junta Directiva Escolar del Distrito en el espacio de 45 días del calendario a partir de esa fecha.

En cualquier caso que involucre discriminación con el empleo, usted tiene derecho a solicitar una apelación en el Departamento de Igualdad de Empleo y Vivienda o la Comisión de Estados Unidos de Oportunidad de Igualdad en el empleo.
Director
Diversity, Equity and Compliance
Riverside Community College District
3845 Market Street
Riverside, CA 92501-3244
(951) 222-8039
www.rcc.edu

Department of Fair Employment and Housing (DFEH)
Santa Ana District Office
2101 East 4th Street, Suite 255-B
Santa Ana, CA 92705
(800) 884-1684
TTY (800) 700-2320
www.dfeh.ca.gov

Equal Employment Opportunity Commission (EEOC)
Wells Fargo Bank Building
401 B Street, Suite 510
San Diego, CA 92101
(800) 669-4000
www.eeoc.gov

U.S. Department of Education Office for Civil Rights (OCR)
50 Beale Street, Suite 7200
San Francisco, CA 94105
(415) 486-5555
www.ed.gov

State Chancellor’s Office
California Community Colleges (CCCO)
1102 Q Street
Sacramento, CA 95811-6549
(916) 445-4826
www.cccco.edu
STANDARDS OF STUDENT CONDUCT

The Chancellor shall establish procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and state law and regulations.

The procedures shall clearly define the conduct that is subject to discipline, and shall identify potential disciplinary actions, including but not limited to the removal, suspension, or expulsion of a student.

The Board of Trustees shall consider any recommendation from the Chancellor for expulsion. The Board of Trustees shall consider an expulsion recommendation in closed session unless the student requests that the matter be considered in a public meeting. Final action by the Board of Trustees on the expulsion shall be taken at a public meeting.

The procedures shall be made widely available to students through the college catalog(s) and other means.

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

1. Causiing, attempting to cause, or threatening to cause physical injury to another person.
2. Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a District employee, which is concurred by the Chancellor.
3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, 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.
4. Committing or attempting to commit robbery or extortion.
5. Causing or attempting to cause damage to District property or to private property on campus.
6. Stealing or attempting to steal District property or private property on campus, or knowingly receiving stolen District property or private property on campus.
7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the District.
8. Committing sexual harassment as defined by law or by District policies and procedures.
9. Engaging in harassing or discriminatory behavior toward an individual or group based on race, gender, religion, age, national origin, disability, or any other status protected by law.
10. Willful misconduct which 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.
11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, District personnel.
12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
   A. Forms of dishonesty include, but are not limited to:
      1. Plagiarism: Presenting another person’s language (spoken or written), ideas, artistic works or thoughts, as if they were one’s own;
      2. Cheating: Use of information not authorized by the Instructor for the purpose of obtaining a grade. Examples include, but are not limited to, notes, recordings, and other students’ work;
      3. Furnishing false information to the District for purposes such as admission, enrollment, financial assistance, athletic eligibility, transfer, or alteration of official documents.
13. Dishonesty; forgery; alteration or misuse of District documents, records or identification; or knowingly furnishing false information to the District.
14. Unauthorized entry upon or use of District facilities.
15. Lewd, indecent or obscene conduct on District-owned or controlled property, or at District-sponsored or supervised functions.
16. 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, or the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District.
17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
18. 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.
19. Use, possession, distribution or being under the influence of alcoholic beverages, controlled substance(s) or poison(s) classified as such by Schedule D, Section 4160 of the Business and Professions Code, while at any District location, any District off-site class, or during any District sponsored activity, trip or competition.
   A. In accordance with Section 67385.7 of the Education Code and in an effort to encourage victims to report assaults, the following exception will be made: The victim of a sexual assault will not be disciplined for the use, possession, or being under the influence of alcoholic beverages or controlled substances at the time of the incident if the assault occurred on District property or during any of the aforementioned District activities.
20. Violation of the District’s Computer and Network Use Policy and Procedure No. 3720 in regard to their use of any or all of the District’s Information Technology resources. The full text of the policy can be found at http://www.rcc.edu/administration/board/policies/6060.pdf.
21. Use of an electronic recording or any other communications device (such as walkmans, cell phones, pagers, recording devices, etc.) in the classroom without the permission of the instructor.
22. Eating or drinking in classrooms.
23. Gambling, of any type, on District property.
24. Bringing pets (with the exception of guide dogs) on District Property.
25. Distribution of printed materials without the prior approval of the Student Activities Office. Flyers or any other literature may not be placed on vehicles parked on District property.
26. The riding/use of bicycles, motorcycles, or motorized vehicles (except for authorized police bicycles or motorized vehicles) is limited to paved streets or thoroughfares normally used for vehicular traffic. In addition, the riding/use of all types of skates, skateboards, scooters, or other such conveyances is prohibited on District property, except for approved activities.
Disciplinary Action

A. Any student who disrupts the orderly operation of a District campus, or who violates the standards of student conduct, is subject to disciplinary action. Such action may be implemented by the Chief Executive Officer of the College or designee.

B. The various types of disciplinary actions are set forth hereafter: The District may utilize any level of discipline without previously using a lower level of discipline and may utilize more than one type of discipline in a case if appropriate.

1. Verbal Warning: This is notice to the student that continuation or repetition of specified conduct may be cause for other disciplinary action.

2. Reprimand: This includes a written statement and/or a probationary period to be specified by the Chief Executive Officer of the College or designee for violation of specified rules. The reprimand serves to place on record that a student’s conduct in a specific instance did not meet the standards expected by the District. It also specifies the steps necessary to correct the inappropriate conduct and to terminate the probation, if probation has been imposed. A person placed on probation is notified that this is a warning and that continued conduct of the type described in the reprimand may result in further disciplinary action against the student.

3. Social Suspension: Social suspension limits a student’s attendance on District property to his/her scheduled class hours. This limitation of District privileges will be set forth in the notice of social suspension for a specified period of time. The imposition of social suspension involves written notification to the student(s) and, if necessary, the advisor of the organization involved and the reason for social suspension.

4. “Temporary Suspension”: This suspension is invoked by a classroom instructor due to student misconduct in the classroom. The student may be removed from class the day of the occurrence and the subsequent class period. If such suspension occurs, the instructor will immediately notify the appropriate Department Chairperson and/or College Dean of Instruction who will in turn notify the College Dean of Student Services.

5. Interim Suspension: Interim suspension may be invoked prior to a hearing to protect the safety and welfare of the District. This is an interim suspension from all District privileges including class attendance. Interim suspension is limited to that period of time necessary to resolve the problems that originally required the interim suspension, and in any case, no more than a maximum of ten (10) instructional days. The student will be afforded the opportunity for a formal hearing within ten (10) instructional days of imposition of the interim suspension.

6. Restitution: This is financial reimbursement to the District for damage or misappropriation of property. Reimbursement may also take the form of appropriate service to repair or otherwise compensate for damage.

7. Disciplinary Suspension: Disciplinary suspension is a suspension of all District privileges including class attendance and may be imposed by the Chief Executive Officer of the College, or designee, following a formal hearing for misconduct when other corrective measures have failed or when the seriousness of the situation warrants such action. Disciplinary suspension will not be more than ten (10) instructional days.

8. Extended Suspension: The Chief Executive Officer of the College, or designee, may suspend a student for good cause from all classes and activities of the District for one or more terms.

9. Expulsion: An expulsion is a long term or permanent denial of all District privileges including class attendance. The Board of Trustees may expel a student upon recommendation of the Chief Executive Officer of each College.

C. In cases of academic dishonesty by a student, a faculty member may take any one of the following actions:

1. The faculty member may: a) reduce the score on test(s) or assignment(s) b) reduce the grade in the course; or c) fail the student in the course if the weight of the test(s) or assignment(s) warrants course failure. The faculty member may recommend to the College Dean of Instruction that the student be suspended from the course. If course suspension is recommended, the College Dean of Instruction will review the information regarding the charge of academic dishonesty, notify the student, consult with the faculty member regarding the recommendation for suspension, and prescribe appropriate due process procedures.

2. If the suspension is upheld, the College Dean of Instruction will make note of the offense in the student’s educational records. A second instance of academic dishonesty may result in expulsion proceedings. Any enrollment, tuition, and other applicable fees will not be refunded as a result of disciplinary action for academic misconduct.

Short-term Suspensions, Long-term Suspensions, and Expulsions

Before any disciplinary action to suspend or expel a student, the following procedures will apply:

- Notice – Within three (3) days of the date on which the Dean of Student Services, or designee, was made aware of the conduct leading to the disciplinary action, a meeting with the student will be scheduled. The student will be provided a verbal notice of the conduct warranting the discipline. The verbal notice will include the following:
shall appoint the hearing panel from the names on this list of at least five (5) members, one (1) administrator, one (1) faculty member and one (1) student.

After the meeting a written notice will be provided restating the facts of the action. The student shall be given the opportunity to respond verbally or in writing to the accusation.

**Student Grievance Procedure for Student-Related Issues**

The purpose of a student grievance procedure is to provide a process by which student-related issues for disciplinary matters may be resolved in a fair and efficient manner following due process. The procedure is intended to achieve an equitable solution to an issue with due regard for the rights of the student, the faculty, the student body, and the District.

A. Procedure Relating to Disciplinary Action: In all cases when the Dean of Student Services of the College, or designee, has initiated disciplinary action, the student, within five (5) instructional days following notification of the action, may convey to the appropriate Chief Instructional Officer or Chief Student Services Officer of the College, in writing:

1. Concurrence with the decision; or
2. A grievance challenging the action.

The Chief Executive Officer of the College, or designee, would hear the challenge and provide a finding within five (5) days of receiving the written request.

Absence of any communication after the five day limit from the student indicates concurrence with the decision.

For extended suspension or expulsion, the student may request a formal hearing within five (5) days of receiving a written decision from the Chief Executive Officer of the College.

**Hearing Procedures**

Request for Hearing:

Within five (5) days after receipt of the Chief Executive Officer’s, or designee’s, decision regarding a long-term suspension or expulsion, the student may request a formal hearing. The request must be made in writing to the Chancellor or designee.

Schedule of Hearing:
The formal hearing shall be held within ten (10) days after a formal request for hearing is received.

Hearing Panel:
The hearing panel for any disciplinary action shall be composed of one (1) administrator, one (1) faculty member and one (1) student.

The Chief Executive Officer of the College, the President of the Academic Senate, and the Associated Students President shall each, at the beginning of the academic year, establish a list of at least five (5) administrators, five (5) faculty members and five (5) students who will serve on student disciplinary hearing panels. The Chancellor shall appoint the hearing panel from the names on this list. However, no administrator, faculty member or student who has any personal involvement in the matter to be decided, who is a necessary witness, or who could not otherwise act in a neutral manner shall serve on a hearing panel.

Hearing Panel Chair:
The Chief Executive Officer of the College shall appoint one member of the panel to serve as the chair. The decision of the hearing panel chair shall be final on all matters relating to the conduct of the hearing unless there is a vote by both other members of the panel to the contrary.

Conduct of Hearing:
The members of the hearing panel shall be provided with a copy of the accusation against the student and any written response provided by the student before the hearing begins. The facts supporting the accusation shall be presented by the college Dean of Student Services, or designee. The college representative and the student may call witnesses and introduce oral and written testimony relevant to the issues of the matter. Formal rules of evidence shall not apply. Any relevant evidence shall be admitted.

Unless the hearing panel determines to proceed otherwise, the College representative and the student shall each be permitted to make an opening statement. Thereafter, the College representative shall make the first presentation, followed by the student. The College representative may present rebuttal evidence after the student completes his or her evidence. The burden shall be on the College representative to prove by substantial evidence that the facts alleged are true.

The student may represent himself or herself, and may also have the right to be represented by a person of his or her choice, except that the student shall not be represented by an attorney unless, in the judgment of the hearing panel, complex legal issues are involved. If the student wishes to be represented by an attorney, a request must be presented not less than five days prior to the date of the hearing. If the student is permitted to be represented by an attorney, the college representative may request legal assistance. The hearing panel may also request legal assistance; any legal advisor provided to the panel may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel, nor vote with it.

Hearings shall be closed and confidential unless the student requests that it be open to the public. Any such request must be made no less than five (5) days prior to the date of the hearing.

In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the panel agree to the contrary.

The hearing shall be recorded by the College either by tape recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the hearing panel chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. The tape recording shall remain in the custody of the College at all times, unless released to a professional transcribing service. The student may request a copy of the tape recording.

All testimony shall be taken under oath; the oath shall be administered by the hearing panel chair. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape recorded is not considered an unavailable witness.

Within five (5) days following the close of the hearing, the hearing panel shall prepare and send to the Chief Executive Officer of the College a written decision, if the recommended discipline is regarding long-term suspension, a lesser discipline or no discipline. If the recommended discipline is regarding expulsion, then the written
decision shall be sent to the Chancellor, with a copy to the Chief Executive Officer of the College. The decision shall include specific factual findings regarding the accusation, and shall include specific conclusions regarding whether any specific section of the Standards of Student Conduct were violated. The decision shall also include a specific recommendation regarding the disciplinary action to be imposed, if any. The decision shall be based only on the record of the hearing, and not on matters outside of that record. The record consists of the original accusation, the written response, if any, of the student, and the oral and written evidence produced at the hearing.

Chief Executive Officer’s Decision:
Long-term suspension or a lesser discipline -- Within five (5) days following receipt of the hearing panel’s recommended decision, the Chief Executive Officer of the College shall render a final written decision. The Chief Executive Officer may accept, modify or reject the findings, decisions and recommendations of the hearing panel. If the Chief Executive Officer modifies or rejects the hearing panel’s decision, the Chief Executive Officer shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. The decision of the Chief Executive Officer of the College shall be final.

Chancellor’s Decision:
Expulsion -- Within five (5) days following receipt of the hearing panel’s recommended decision, the Chancellor shall render a written recommended decision to the Board of Trustees. The Chancellor may accept, modify or reject the findings, decisions and recommendations of the hearing panel for expulsion. If the Chancellor modifies or rejects the hearing panel’s decision, he or she shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. If the Chancellor’s decision supports expulsion, it shall be forwarded to the Board of Trustees.

Board of Trustees’ Decision:
The Board of Trustees shall consider a recommendation for expulsion from the Chancellor at the next regularly scheduled meeting of the Board after receipt of the recommended decision.

The Board of Trustees shall consider an expulsion recommendation in closed session, unless the student has requested that the matter be considered in a public meeting in accordance with these procedures.

The student shall be notified in writing, by registered or certified mail or by personal service, at least three (3) days prior to the meeting, of the date, time, and location of the Board’s meeting.

The student may, within forty-eight hours after receipt of the notice, request that the hearing be held as a public meeting.

Even if a student has requested that the Board of Trustees consider an expulsion recommendation in a public meeting, the Board of Trustees will hold any discussion that might be in conflict with the right to privacy of any student, other than the student requesting the public meeting, in closed session.

The Board of Trustees may accept, modify or reject the findings, decisions and recommendations of the Chancellor and/or the hearing panel. If the Board of Trustees modifies or rejects the decision, the Board shall review the record of the hearing, and shall prepare a new written decision which contains specific factual findings and conclusions. The decision of the Board of Trustees shall be final.

The final action of the Board of Trustees on the expulsion shall be taken at a public meeting, and the result of the action shall be a public record of the District.

General Grievance Process For Matters Other Than Disciplinary:
Student grievances (other than for discipline) will be processed in the following manner:

1. Consultation Process
   a. Prior to any formal hearing, a student will be encouraged to contact the appropriate faculty or staff member and attempt, in good faith, to resolve the concern through the consultative process. If a student is unsure of the appropriate faculty or staff member to contact, he or she should contact the College Dean of Instruction or College Dean of Student Services for nonacademic matters, who will direct the student to the appropriate staff member. In cases where either the student or faculty/staff member prefers to meet in the presence of a third party, he/she will contact the abovementioned administrators. The College Dean of Instruction or the College Dean of Student Services will either serve as the third party or designate someone for this purpose.
   b. If the issue is not resolved by the affected parties, the student may request an informal consultation with the appropriate department chairperson, dean or director.
   c. If the issue is not resolved with the appropriate department chairperson, dean or director, the student may request an informal consultation with the College Dean of Instruction or College Dean of Student Services.
   d. If the issue is not resolved with the appropriate dean, the student may request an informal consultation with the appropriate administrator.
      1. For academic matters, the conference will be with the College Chief Instructional Officer.
      2. For nonacademic matters, the conference will be with the College Chief of Student Services Officer.
   e. The College Chief Instructional Officer or Chief Student Services Officer will convey a decision to all affected parties.
   f. If the issue is not resolved at the informal consultation, the student may file a formal, written grievance requesting a formal hearing within thirty (30) instructional days of hearing from the College Chief Instructional Officer or Chief Student Services Officer. The student will direct this letter to the appropriate College Chief Instructional Officer or Chief Student Services Officer. The time limit for students to file a formal written grievance will be one hundred twenty (120) days from the date of the incident giving rise to the grievance.

2. Formal Hearing
   a. Upon receipt of a written request for a formal hearing, the College Chief Instructional Officer or Chief Student Services Officer will arrange for the hearing within a reasonable time period not to exceed twenty (20) instructional days. The written request should contain a statement detailing the grievance to be resolved, and the action or remedy requested. The College Chief Instructional Officer or Chief Student Services Officer will forward signed copies of all written grievances to the faculty member being grieved within seven (7) instructional days.
   b. A grievance withdrawn from the formal hearing stage will be deemed without merit and cannot be refiled.
   c. The formal hearing will be conducted before the College Student Grievance Committee. This committee will be
composed as follows:
(1) One (1) student appointed by the ASRCC College President.
(2) One (1) faculty member appointed by the College Academic Senate President.
(3) One (1) manager appointed by the Chief Executive Officer of the College.
(4) The Chief Executive Officer or his/her designee – a person who has received training in proper procedures – will serve as chair of the committee.
d. The College Student Grievance Committee will:
(1) Set a reasonable time limit for the hearing.
(2) Receive signed written statements from both student and faculty involved in the grievance specifying all pertinent facts relevant to the case in question, a copy of which will be given to the other party with due notification of rights and responsibilities in the procedure for disposing of the case.
(3) Transmit to all parties a written list of intended areas of inquiry to be asked at hearings or interviews, at least seventy-two (72) hours in advance of the hearing.
(4) Allow each party the right to be assisted at the hearing by a student or staff member of the College whose participation will be limited to directly advising the student or staff member. If there is a need for accommodation for a disability, the student must notify the appropriate College Chief Instructional Officer or the Chief Student Services Officer at least seventy-two (72) hours in advance of the hearing. The advisor may not enter into the proceeding of the grievance committee. In addition, each party has the right to question witnesses and testimony.
(5) Judge the relevancy and weight of testimony evidence. The committee will make its findings of fact, limiting its investigation to the formal allegations. It will also make recommendation for disposition of the case.
(6) Maintain a transcript of the proceeding which will be kept in a confidential file but be available for review by either party.
(7) Submit its findings of fact and recommended action to each party and the appropriate College Chief Instructional Officer or Chief Student Services Officer within ten (10) instructional days of the completion of the formal hearing.
e. The formal hearing shall be closed to the public.
f. Upon receipt of the College Student Grievance Committee’s recommendation, the appropriate College Chief Instructional Officer or Chief Student Services Officer, within ten (10) instructional days, will transmit, in writing, his/her decision to all involved parties.
g. The student, within five (5) instructional days of receipt of the College Chief Instructional Officer or Chief Student Services Officer’s decision, may appeal the decision to the Chief Executive Officer of the College. The Chief Executive Officer of the College may:
(1) Concur with the College Chief Instructional Officer or Chief Student Services Officer’s decision,
(2) Modify the recommended decision,
(3) Recommend action to the Board of Trustees.

Office of Primary Responsibility:
A. The Chief Executive Officer of the College is responsible for establishing appropriate procedures for the administration of disciplinary actions. Issues involving matters of student grievance or student discipline by following the procedures below.
B. The Chief Student Services Officer will be responsible for the overall implementation of the regulations which are specifically related to all nonacademic, student related matters.
C. The Chief Instructional Officer will be responsible for the overall implementation of the procedures which are specifically related to class activities or academic matters.
D. Matters involving the prohibition of discrimination and the prohibition of sexual harassment and any concerns regarding these matters should be referred to the District’s Department of Diversity, Equity and Compliance.
E. The definitions of cheating and plagiarism and the penalties for violating standards of student conduct pertaining to cheating and plagiarism will be published in all schedules of classes, the college catalog, the student handbook, and the faculty handbook. Faculty members are encouraged to include the definitions and penalties in their course syllabi.

3. Appeals:
In all cases, final appeal will rest with the Board of Trustees.
ACADEMIC HONESTY
Academic honesty and integrity are core values of the Riverside Community College District. Students are expected to perform their work (except when collaboration is expressly permitted by the course instructor). Believing in and maintaining a climate of honesty is integral to ensuring fair grading for all students. Acts of academic dishonesty entail plagiarizing—using another’s words, ideas, data, or product without appropriate acknowledgment—and cheating—the intentional use of or attempted use of unauthorized material, information, or study aids on any academic exercise. Students who violate the standards of student conduct will be subject to disciplinary action as stated in the Standards of Student Conduct and Discipline Procedures section in the catalog. Faculty, students, and administrators all share the responsibility to maintain an environment which practices academic integrity.

THE ARTS
ART
The visual arts at RCC Norco play a significant role in students’ lives. Classes in painting, drawing, figure drawing, design, art history, computer/digital/gaming art, and illustration give students access to outstanding studio facilities and faculty. Our industry-recognized faculty are here to facilitate creation and further student opportunities in many areas of art.

MUSIC
RCC Norco offers a variety of musical and performance opportunities for students. At the core of the music program is the Norco Choir. The Norco Choir represents the college at major events including convocation, graduation and community outreach. Music@Norco also offers opportunities in commercial music performance. Students can take music classes in performance which will lead to recording and other opportunities. Also offered are courses in piano, guitar, music theory and music business. Students are encouraged to make music activities a significant and memorable part of college life.

THEATER ARTS
Theater Arts have long been an important component of the Norco College and the Norco community. The theater department provides students opportunities in major productions including musical theater. Students are also offered the opportunity to work both on stage and backstage. Also offered are courses in acting, stage play, character development and auditioning for the stage.

CAREER AND TRANSFER CENTER
The Career & Transfer Center is dedicated to assisting students with resources to enhance their academic success, ultimately leading to prosperous and satisfying career options. The Center shall maintain an open and welcoming environment that promotes and encourages student development and self-exploration. One of the primary goals of the Career & Transfer Center is to coordinate college transfer efforts to provide students with career and transfer services and activities that support student success.

The Career & Transfer Center is committed to providing resources, information, and services to students who are interested in researching careers and transfer options to accredited baccalaureate four-year universities. Our services include:

- Transfer advisement and assistance
- Transfer advisement with university representatives
- College catalogs (UC, CSU, private universities and out of state schools)
- Access to AICCU (California’s independent universities)
- Access to CSU Mentor, University of California
- Information on majors and the admissions process
- Articulation agreements with four-year universities
- Transfer application assistance and workshops
- College handbooks and brochures
- Computers with internet access
- Financial aid and scholarship resources
- Career explorations programs (Eureka)
- Occupational resources
- Career and transfer events

For more information please call: (951) 372-7043

COUNSELING CENTER
The Counseling Department is committed to providing students with a broad range of options as well as specific guidance in career planning, evaluation, academic choices, and direction. Professional counseling enables students to utilize various resources and academic offerings and assists them in reaching their educational, vocational, and personal objectives and goals.

Specific counseling services include personal counseling, group counseling, career development, academic guidance, and information regarding graduation requirements and requirements for transferring to four-year colleges and universities.

How to Use the Counseling Center
Students may contact the clerk in the Counseling Center or by visiting www.rcc.edu to schedule an appointment to see a counselor. Counseling hours vary by term and college. Appointments can be made by calling (951) 372-7101. It is important to keep your appointment. Please call in advance if you need to cancel or reschedule.

DISABLED STUDENT SERVICES
The Office of Disabled Student Programs and Services (DSP&S), on each of RCCD’s three colleges, provides appropriate, comprehensive, reliable and accessible services to students with documented disabilities who request such services. These offices facilitate and encourage academic achievement, independence, self-advocacy and social inclusion for students with documented disabilities in eight primary disability groups as outlined in California’s Title 5 Regulations (acquired brain injury, physical disabilities, hearing impairments, learning disabilities, developmental disabilities, psychological disabilities, other health impairments, and temporary disabilities). The office on the Norco College is located in Student Services 123.

Services are available to students with:

Physical Disabilities:
- Acquired Brain Injury
- Amputations
- Arthritis
- Cerebral Palsy
- Multiple Sclerosis
- Muscular Dystrophy
- Orthopedic Disabilities
Post-Polio Disabilities

Learning Disabilities:
Average to above average intellectual ability with a verifiable learning disability.

Other Health Impairments:
Cardiac Disease
Diabetes
Epilepsy
Psychological Disabilities
Communicative Disabilities:
Deaf
Hearing Impaired
Speech Impaired
Respiratory Disease

Temporary Disabilities:
Broken Bones
Post Operative Recovery
Other

Support Services Available Include:
Adaptive Physical Education
Alternate Media and Adaptive Technology (i.e., e-text, screenreaders, etc.)
Counseling
High Tech Center (Adaptive computer equipment) and assistive devices
Interpreters/RTC for the Deaf
Individual tutoring
Liaison with other agencies
Mobility assistance
Note-taking services
Priority Registration
Test Facilitation

Trained professionals are available in the Office of Disabled Student Services to assist each student in acquiring the support services needed to attain individual academic and career goals. For further information call: Norco (951) 372-7070 and TDD (951) 222-8061.

Riverside Community College District does not discriminate on the basis of disability in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of any of its programs and activities, as specified by federal laws and regulations. The designated coordinator for compliance with section 504 of the Rehabilitation Act of 1973, as amended, the Americans with Disabilities Act (ADA) is the Director of Diversity, Equity, and Compliance.

DISCIPLINE
It is understood that each student who registers at the district is in sync with its purposes and will cooperate in carrying out these purposes by adhering to the regulations governing student behavior. The Standards of Student Conduct and Discipline Procedures section in the catalog.

EARLY AND MIDDLE COLLEGE PROGRAMS
The Riverside Community College District offers, early and middle college programs on each of its three colleges. While the programs differ from one another in some significant respects, all enable high school students to pursue college study while completing their high school study. Interested high school students should consult with their school counselor about opportunities for middle or early college study at an RCCD college in their region.

EXTENDED OPPORTUNITY PROGRAMS AND SERVICES (EOPS)
Funded by the state of California, the EOPS program provides academic support services for financially and educationally disadvantaged students. Services available include:

- Personal, academic, and career counseling
- Priority Registration
- Supplemental book services
- One-to-one tutoring
- Transfer information and assistance

To be eligible for EOPS, a student must:
1. be a California resident;
2. be enrolled as a full-time student (12 units or more per term, with the exceptions as noted in Section 56220 of Title 5);
3. have fewer than 70 units of degree-applicable college credits;
4. qualify to receive a Board of Governor’s Waiver under either Method A or B;
5. be educationally disadvantaged:
   a. not qualify for degree-applicable English or Math course or
   b. did not graduate from high school or
   c. high school GPA below 2.5 or
   d. previous enrollment in remedial education

Services available at Norco (951) 372-7128.

Cooperative Agencies Resources for Education (CARE)
The aim of CARE is to assist single parents receiving AFDC (Aid to Families with Dependent Children) increase their educational skills, become more confident and self-sufficient, enhance their employability, encourage success and move from welfare to INDEPENDENCE.

To be eligible a student must:
1. be an eligible full-time EOPS student with 2.0 GPA (good standing);
2. be a single parent/head of household;
3. Student must be 18 years of age or older;
4. Must be a AFDC/CalWORKs recipient;
5. Have a child under the age of fourteen years of age;
6. Have the desire to continue their education and become self-sufficient.

CARE Services are supplemental to EOPS services and MAY include:

- Personal, Academic and Career Counseling
- Support Group
- Personal Counseling
- Child Care Stipend
- Tutorial Assistance
- Bus Pass or Parking Pass
- Meal Tickets
- Special Topic Workshops

Services available at Norco (951) 372-7128.

STUDENT FINANCIAL SERVICES
Student Financial Services provides resources to help students and families gain the knowledge needed to apply for financial assistance to help reach their educational goals.

The Student Financial Services (SFS) Department assists students in reaching their educational goals by providing information and applications for financial assistance programs. The SFS
department will educate students on how to apply for various types of financial assistance, offer financial aid academic counseling and provides a variety of resources to students to educate them about financial aid. For current information and the dates of financial assistance workshops, please visit our website at www.rcc.edu/studentfinancialservices.

The Free Application for Federal Student Aid (FAFSA)
The initial application used in applying for financial assistance is the Free Application for Federal Student Aid (FAFSA). The FAFSA application is available online at www.fafsa.ed.gov and workshops are available throughout the year to assist students with completion of the FAFSA. For workshop times and dates, please view our website at www.rcc.edu/studentfinancialservices. The FAFSA must be completed for each academic year. Please visit the website for Norco College’s Title IV code as it must be listed in order for your FAFSA record(s) to be received by our department. The FAFSA is available January 1st of each year and will determine eligibility for the following academic year. It is recommended that the FAFSA be completed prior to March 2nd to ensure priority processing and to maximize your funding.

*New: If you are considered a dependent student and cannot provide your parents information on the FAFSA application, we ask that you first complete the FAFSA application and submit it online. If after completing the FAFSA application you are still required to provide your parents information and are not able to, please visit any SFS office and ask to speak to an analyst regarding a Petition for Independent Status (Dependency Override).

Completing the FAFSA will determine your eligibility for the following:

• The Board of Governors Fee Waiver (BOGW) is a state program which waives enrollment fees for qualifying CA resident students. If determined eligible, the BOGW will waive enrollment fees for the entire academic year beginning with summer and ending with the following spring. During the fall and spring semesters, the parking fee will be reduced to $20.00 per semester. The BOGW does not pay for books or other educational supplies, the student services or health fees or additional class fees (such as art and CPR fees as listed in the schedule of classes) To apply, complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov and list RCC School code #001270 for all 3 colleges and you will be automatically awarded the BOGW if eligible. No separate application is required. If you are not a California Resident, you may be eligible to apply for a non-resident tuition exemption through the AB 540 program. See Admissions and Records for additional information or view our consumer guide online.

• Federal Pell Grant (up to $4713 for the academic year, subject to change) is awarded to eligible undergraduate students to assist in paying for educational expenses and are awarded based on financial need. Unlike loans, Pell Grants do not have to be repaid (unless you withdraw from courses and owe a refund or do not successfully pass your courses). The information that you provide on the Free Application for Federal Student Aid (FAFSA) is used to produce an Expected Family Contribution (EFC). This EFC number will determine if you are eligible for the Pell Grant and for how much. How much you receive will depend not only on your EFC but also on the number of units you are enrolled in and whether you attend school for a full academic year. Students enrolled less than ½ time (less than 6 units) may qualify for a Pell Grant. Once you have completed all application procedures with the SFS Office, your Pell Grant eligibility will be determined. You will receive an award letter via your RCC student e-mail indicating how much financial aid you have been awarded, including the Pell Grant. All award letters are based on full-time enrollment and disbursements are adjusted based on units. Please note that you may not receive Pell Grant funds from more than one school for the same period of enrollment.

• Federal Supplemental Educational Opportunity Grant (FSEOG) (up to $1000 for the academic year at RCC) is awarded to undergraduate students with exceptional financial need and have the lowest expected family contribution (EFC) granted on the FAFSA. Like the Pell Grant, it is a cash award that does not require repayment. Due to limited funding, priority is given to students who apply for the FAFSA by the March 2nd deadline and qualify for the maximum Pell Grant award. This grant is awarded until funds are exhausted.

• Academic Competitiveness Grant (ACG) (ranges from $750-$1300 per academic year) is intended to provide additional funds for full-time college students who completed a “rigorous course of study” during their high school years. The high school must validate whether the student meets one of the following options for eligibility for the 2009-2010 school year:
  • The California Golden State Merit Diploma
  • A set of courses similar to the State Scholars Initiative
  • Advanced Placement (AP) or International Baccalaureate (IB) courses and test scores.
  • California A-G Requirements

These recent high school graduates may be eligible for the additional ACG for up to $750 for their first year of college and $1300 for their second year.

• Cal Grants (up to $1551 per academic year) are awarded by the California Student Aid Commission (CSAC) to California residents attending a qualifying institution at least half time (6 or more units). The deadline to apply for these grants is March 2nd of every year. For students attending California Community Colleges, there is an additional deadline of September 2nd. To apply for the Cal Grant awards, you need to complete the FAFSA and have your GPA verified by the above deadlines. If you are awarded a Cal Grant by CSAC and are choosing to attend RCCD, you must ensure that your financial aid file is completed, that you have an active academic program (major) on file with the Admissions and Records office, other than Undecided, and you must be meeting the RCCD Student Financial Services Satisfactory Academic Progress (SAP) standard. Disbursement is contingent upon eligibility and funding.

• CHAFEE Grant Program provides grants of up to $5,000 to eligible foster youth. An Independent Living Coordinator with the Department of Public Social Services determines whether or not a student is an eligible foster youth. Students must be enrolled in college or vocational school at least half-time (6 units) during the Fall and/or Spring semester and must meet Satisfactory Academic Progress (SAP) before the Chafee grant can be disbursed. The FAFSA application is required for RCCD to verify eligibility for this grant. Disbursement is contingent upon eligibility and funding. An application for this grant can be completed at www.chafee.csac.ca.gov. Paper applications can
be picked up in the SFS Office and after completion, mailed to CSAC. This grant will be renewed automatically by CSAC as long as the student meets specific criteria. Each CHAFEE Grant disbursement is released by CSAC during the Fall and/or Spring semester at which time the SFS Office reviews the student’s eligibility prior to the disbursement being released to the student.

- Child Development Grant Program ($1000 per academic year) is for participants who intend to teach or supervise in the field of child care and development in a licensed children’s center. Students must be enrolled in at least half-time (6 units) during the fall and/or spring semester at Norco College and other colleges within RCCD and must meet Satisfactory Academic Progress (SAP) for each semester. A paper application is available in April and can be picked up in the SFS Office or Early Childhood Education Office. It is also available online at www.csac.ca.gov for printing. It must be completed and submitted to Shari Yates, Assistant Professor, Early Childhood Studies in the Early Childhood Education Office. The deadline to submit this application is June 15th. A FAFSA application is required for RCCD to determine eligibility for this grant. A new application must be submitted for each academic year. The Child Development Grant disbursement is released by CSAC during the Fall and/or Spring semester at which time the SFS Office reviews the student’s eligibility prior to the disbursement being released to the student.

- Federal Work Study (earn up to $4000 per academic year) The FWS Program offers students the opportunity to earn additional funding through part-time employment. It also allows students to gain work experience and pay for a portion of their educational expenses. All positions require that students maintain half-time enrollment and a minimum 2.0 CGPA. To apply for Federal Work Study, student must complete the FAFSA application online at www.fafsa.ed.gov and list the RCCC school code #001270 for all 3 colleges. To apply for a FWS position, you must have completed your financial aid file. Please check Web Advisor for this status or go to any SFS office. To view available jobs or for more information on FWS, please view the Student Employment section.

- William D. Ford Federal Direct Loan Program - Riverside Community College District (RCCD) participates in the Federal Direct Loan Program. At RCCD it is our plan to help our students reach their educational goal with the least amount of student loan debt as possible.

RCCD does not recommend borrowing more than $10,000 at the Community College level (this amount includes all loans from any other institutions attended). To view your complete loan history, go to: National Student Loan Data System http://www.nslds.ed.gov. A Department of Education FAFSA PIN is required to access this website. If you have misplaced or forgotten your PIN number, you may request a duplicate PIN by going to the PIN website at www.pin.ed.gov.

- Students must be meeting the SFS Satisfactory Academic Progress (SAP) standard and must be enrolled at least half-time (6 units) in courses listed on their Student Educational Plan with the RCCD Admissions and Records Department. Students must have a completed financial aid file at RCCD and be notified of their eligibility for any grant aid, Federal Work Study or scholarships before applying for a loan. Students may pick up a loan packet and submit the “Loan Request Form.”

- Student must also have a current Student Educational Plan (SEP) on file with RCCD which corresponds with the student’s academic program declared in Admissions and Records as well as the courses that they are currently enrolled in.

- Students will receive notification by e-mail within two weeks after the deadline date they submitted the “Loan Request Form” regarding the status of their loan request. If approved, EdFund will guarantee the loan and the student will need to sign his/her Master Promissory Note with their FAFSA PIN online at www.edfund.net. Once our office receives the loan payment we verify that the student is still eligible for the loan disbursement and mail it to the student. RCCD mail is not forwarded by the U.S. Postal Service so it is extremely important that a current mailing address is listed in the Admissions and Records Office at all times.

- Our Federal Student Loan Default Management Plan requires all students to complete a loan Entrance and Exit interview each year students receive a loan at RCCD. Interviews may be completed online at www.edfund.net by choosing the Loan Counseling link. Our efforts in educating students regarding their responsibilities in securing a federal student loan are taken very seriously at RCCD. We also reserve the right to deny loans to students on a case-by-case basis.

SCHOLARSHIPS
Riverside Community College District offers scholarships through its Foundation office and generous donors. These scholarships are based on a variety of majors, career goals, GPA, community service and club involvement:

- The RCCD Scholarship Brochure for continuing and transferring students is available every fall semester with a deadline in early December. The brochure includes RCCD scholarship listings, application, personal essay form, evaluation forms and instructions on how to apply. It is also available on our website early in the fall semester at www.rccd.edu/studentfinancialservices. Scholarship information workshops are held at each college prior to the scholarship deadline to assist students in the scholarship application process and are also available on our website. Applicants chosen for RCCD scholarships are notified by May of each year. The scholarship funds for students continuing at RCCD are disbursed during the following fall and spring semesters upon verification of eligibility. The scholarship funds for students transferring to a University are disbursed to the transfer institution during the next fall semester. Transfer students must return the Transfer notification form with the transfer institution information.

- The RCCD Scholarship Brochure for High School Seniors is available during the spring semester each year with a deadline in early March. The brochure contains RCCD scholarships to be awarded to High School Seniors who will be attending RCCD during the academic year after they graduate from High School. The brochure is available in February and March of each year at each High School within the RCC District and also at www.rccd.edu/studentfinancialservices.

- The Community Scholars scholarship is a partnership between RCCD and California Baptist University, La Sierra University and the University of Redlands. This is a $7,000 scholarship offered to Riverside County High School Seniors who will attend RCCD for two years and transfer to one of the Universities.
Scholarships are also available from sources outside of RCCD. There are many resources and opportunities for students to find scholarships to use while attending RCCD. However, it requires time and effort on the part of the student to locate and apply for outside scholarships:

- A list of scholarships RCCD has been notified of is available at Student Financial Services and at www.rccd.edu/studentfinancialservices.
- If you are awarded a scholarship from a source outside of RCCD, you may use your scholarship to pay for tuition and fees, set up a bookstore account at any college bookstore, or be reimbursed for tuition, fees and books already paid for or purchased. Follow the donor’s directions on how to have your scholarship funds sent to RCCD. When outside scholarship funds are received by RCCD, the student is notified by mail and must submit a Scholarship Action Form in order to use the scholarship funds at RCCD.

STUDENT FINANCIAL SERVICES COUNSELING AND OUTREACH SERVICES

The Student Financial Services Counseling and Outreach Services are available in the Student Services Lobby.

Academic Counselors are available to work with students receiving financial assistance in the following areas:

- Developing educational goals and Student Educational Plans (SEP)
- Maintaining financial aid eligibility by meeting Satisfactory Academic Progress standards
- Working with students who are in a probationary or ineligible financial aid status
- Processing financial aid Appeals

Computers are available to students receiving financial assistance for the following:

- Complete the FAFSA online
- Research and apply for scholarships online
- Other financial aid web assistance

Responsibilities and Requirements

The district must follow Federal, State and Institutional regulations in administering financial assistance programs. Students must adhere to all Federal, State and Institutional guidelines when applying for and receiving financial assistance. If students do not follow the requirements, eligibility may be rescinded. Please review the following guidelines:

- Ability to Benefit
  To receive financial assistance, a student must be qualified to study at the postsecondary level. A student qualifies if he or she has a high school diploma, GED, has completed home schooling, has passed a federally approved Ability to Benefit test (ATB) for students 18 years old or older or satisfactory complete six credit hours (six semester units) or equivalent coursework that are applicable toward a degree or certificate offered at RCCD or another accredited college or university. Students are ineligible to receive Title IV aid while earning the six credit hours. If you need to take the ATB test because you do not have a high school diploma or GED, please contact your college Assessment Center to take the test.

- Student Educational Plan
  You must enroll in and successfully complete courses according to your Student Educational Plan (SEP). To develop your SEP you must meet with an academic counselor. Counselors are available at the SFS Counseling/Outreach Office. To schedule an appointment with an SFS Counselor please call (951) 328-3690.

- Citizen or eligible non-citizen
  To be eligible for federal and state financial assistance, you must be a US citizen or eligible non-citizen with proof of permanent residence (alien registration card, I-94 or I-551). Citizenship or permanent residency is not required to receive most scholarship aid.

- Return of Title IV funds
  If you receive federal or state financial assistance and you drop or fail to successfully complete your courses you may need to REPAY a portion of your financial assistance. (See our Consumer Guide for more information regarding Return of Title IV Funds)

- Student cannot receive financial assistance at two institutions at the same time. (with exception of the Board of Governors (BOG) Fee Waiver)

- Satisfactory Academic Progress
  All students must meet the SFS Satisfactory Academic Progress (SAP) standard to maintain financial aid eligibility. If you do not meet the SAP standard you will become ineligible for most types of financial assistance. If you are determined ineligible for financial aid due to your SAP, you have the right to appeal through the SFS Appeal process. The SAP standard is as follows:
  - GPA – Maintain a cumulative Grade Point Average of 2.0.
  - Completion percentage – Successfully complete at least 67% percent of all units attempted at RCCD
  - Maximum amount of units – Eligibility for most types of financial assistance is limited to 90 units attempted at RCCD (total unit limit may vary depending on length of program).

- Contact information
  Be sure to keep your mailing address, phone number and e-mail address current. This ensures that you will receive information regarding your financial aid in a timely manner. This information can be updated via Web Advisor or in person at the Admissions and Records office on any college.

- Social Security number
  Be sure that your Social Security number is on file with RCCD. We cannot process most types of financial assistance without your Social Security number on file.

- Disbursement and Deadline information
  Deadlines for turning in required documents are found on our Disbursement schedule. Disbursement of financial assistance occurs after the student has completed the FAFSA and turned in all documents requested by the SFS office. For dates of deadlines and disbursement, please view our Consumer Guide on our website at www.rccd.edu/studentfinancialservices or pick a disbursement schedule up at one of our offices.

- Veterans: applying for financial assistance through the FAFSA application does not affect your GI Bill benefits. All veterans should apply for financial assistance by completing the FAFSA application online at www.fafsa.ed.gov. Please see the veterans section of this booklet for additional information.
You can find more information regarding Student Financial Services on our website at [www.rcc.edu/studentfinancialservices](http://www.rcc.edu/studentfinancialservices). If you have any questions, please contact us by e-mail at [studentfinancialservices@rcc.edu](mailto:studentfinancialservices@rcc.edu).

Riverside Community College District
Student Financial Services Office
“Helping to Build Dreams”

FOOD SERVICES
When school is in session, Food Services offers a variety of services. The Corral provides baked goods, cold sandwiches, coffee, cold drinks and a variety of grab-and-go foods. Hours of operation for the facility are:

Mon – Thurs 7am – 8pm
Fri 7am – 1pm
Sat – Sun Closed

In addition, vending machines are conveniently located in the Corral.

HEALTH SERVICES
The Health Services office is located in the Student Services building. The office is open Monday and Thursday 9:00 a.m. to 7:00 p.m.; Tuesday and Wednesday 8:00 a.m. to 4:30 p.m., and Fridays 8:00 a.m. to 2:30 p.m. Hours may vary so check the college website for updated information or call (951) 372-7046.

Services include emergency care, first aid, health counseling, health education, care for common health problems, evaluation and treatment by physicians, nurse practitioners, marriage and family counselors, and referral to appropriate agencies and professionals in the community by a college nurse.

Limited medical insurance is available against accidental injury while in class or while participating in a college sponsored event. All college accidents should be reported immediately to the Health Services office.

We are here to serve you! Your medical records and all discussions with our staff are completely confidential.

HONORS PROGRAM
The Riverside Community College District offers an honors program at the Riverside City, Moreno Valley and Norco colleges. The Honors Program makes it possible for students to stretch themselves intellectually, actively work with fellow students and faculty in an environment that encourages them to improve their critical thinking, written and verbal communication skills to a university level, and to help them to cultivate an awareness and understanding of the diverse points of view necessary for a rich and productive intellectual environment. Perhaps the most valuable aspect of the Honors Program is the enthusiastic learning environment created by Honors faculty and students, an environment we hope benefits not only honors students and faculty, but the college and greater community as well.

To be eligible for the program, current RCCD students need:
- 3.0 GPA
- Eligibility for or completion of English 1A
- Completed Honors Program application

To be eligible for the program, incoming high school students and all other 1st time college students need:
- Completed Honors Program application
- Eligibility for or completion of English 1A

Benefits
The Honors Program offers several benefits to students who successfully complete individual honors classes or the six honors classes required to complete the program:
- Low student-teacher ratios. Honors classes have a maximum of 20 students and are taught seminar-style.
- Transfer agreements, including UC Irvine and UCLA.
- One-on-one mentoring and help from the honors coordinators and faculty in preparing applications for university admissions and scholarships.
- Workshops to help students prepare university and scholarship applications and application essays.
- The opportunity to present work at student research conferences.
- A community of dedicated, motivated students and faculty.

For more information, contact: (951) 222-8571

INFORMATION CENTER
If you have news or information you want to give out for free, bring a copy to the Student Activities office and it will be displayed at the college.

Posting Policy: Materials may be posted on bulletin boards and other authorized areas for a 10 day period by the Chief Student Services officer of each college or program location to prevent litter and overcrowding. The approval process is content neutral and only ensures that the literature will not be removed before the ten working day posting period expires. Only ten (10) flyers and two (2) posters may be approved. No materials should be posted on glass, windows, mirrors, doors, buildings, trees, wood, plaster interior, or exterior walls.

INTERNATIONAL EDUCATION
Riverside Community College District is dedicated to the concept of an internationally based education. The District supports a curriculum that includes the infusion of a global dimension throughout all subject areas to better prepare our students for success in the global community.

Through our college Study Abroad Program, students have the opportunity for quality cross-cultural academic experiences. Students are offered academic credit for fall semester in the “birthplace of the Renaissance,” Florence, Italy, spring semester in Beijing, China, as well as opportunities for academic study tours during the summer session.

INTERNATIONAL STUDENT CENTER
The Center for International Students and Programs administers the Student and Exchange Visitor Information System (SEVIS) reporting functions in compliance with Department of Homeland Security (DHS) regulations. The Center also organizes orientation classes, counseling and community activities for RCCD students coming from other countries. More than 250 students from 50 nations attend RCCD each semester. An International Club provides a broad range of activities on and off campus, including social events and opportunities for community service. Students may take classes at Riverside City, Moreno Valley and Norco colleges.

The Center also contributes to the international dimension of the
colleges by presenting resource speakers from the United States and abroad who address current world issues.

**JOB PLACEMENT SERVICES**

Job Placement is an employment service supported district wide to assist students with their job search efforts. Jobs on campus may be accessed through the internet at [www.jobs.rccd.edu](http://www.jobs.rccd.edu). Jobview Kiosk machines are available in all three libraries for on-line employment. Some of the services offered are: Job referrals for Part-time and Full-time Employment, Resume Development, Interviewing Techniques, Mock Interviews, Job Counseling, Labor Market Information, Resource Materials, Job Search Workshops, Classroom Presentations, Online Job Search and Annual Career Fairs and Recruitment. For additional information regarding location and hours, you may contact the office by calling (951) 372-7147.

**LIBRARY/LEARNING RESOURCE CENTER (LLRC)**

The Riverside Community College District offers quality library services at the Salvatore G. Rotella Digital Library / Learning Resource Center (Riverside City College), the Moreno Valley Library (Moreno Valley College), and the Wilfred Airey Library (Norco College). Each library has book and multimedia collections to support college courses and the local community, as well as academic journals, magazines, and newspapers. Visit the libraries online at: [http://library.rccd.edu](http://library.rccd.edu)

Hours for each library during the Fall and Spring semesters are:

**Salvatore G. Rotella Digital Library / Learning Resource Center** (Riverside City College)
- Monday – Thursday: 8:00 a.m. – 7:00 p.m.
- Friday: 8:00 a.m. – 3:00 p.m.
- Circulation Services: (951) 222-8651
- Reference Desk: (951) 222-8652

**Moreno Valley Library** (Moreno Valley College)
- Monday – Thursday: 8:00 a.m. – 8:00 p.m.
- Friday: 8:00 a.m. – Noon
- Circulation Services: (951) 571 – 6111
- Reference Desk: (951) 571 – 6112

**Wilfred Airey Library** (Norco College)
- Monday-Thursday: 7:30 a.m. - 8:00 p.m.
- Friday: 7:30 a.m. - 1:00 p.m.
- Circulation Services: (951) 372 – 7019
- Reference Desk: (951) 372 – 7115

Summer and Winter intersession hours vary and are available at the libraries and website: [http://library.rccd.edu](http://library.rccd.edu).

The libraries provide research instruction, quiet study areas, and access to printers, photocopiers, media playback equipment, and computers. Computers are equipped with Internet access and software for word processing, spreadsheets, and presentations. The RCCD College Card functions as the library card for students, faculty and staff. Community members may purchase a library card for $5.00 per term. Library faculty are available at the Reference Desk during hours of operation to provide research assistance and instruction to students and other library users.

**PUBLICATIONS**

Students enrolled on the Norco College publish their own student newspaper, the Norco Voice. The newspaper, which is student produced, reports on issues and events pertaining to not only the RCCD college, but also the broader communities. The Norco Voice is free and can be obtained in newspaper dispensers provided in various locations on campus.

**THE RCCD FOUNDATION**

Established in 1975, the RCCD Foundation, is a 501(c)(3) not for profit organization that was created to provide support for scholarships and other special projects to benefit the College and its students. Over the years, the RCCD Foundation has played a major role in the acquisition of land for the Moreno Valley College, the Early Childhood Studies building, the RCCD Art Gallery, Passport to College, the purchase of the RCCD Alumni House, and several other initiatives.

Scholarship support remains a central mission of the RCCD Foundation. In 1991, the Foundation launched a successful $1 million Endowed Scholarship Campaign, one of the largest scholarship campaigns undertaken by a community college at the time. Today, thanks to tremendous support from individuals and businesses throughout the region, the Foundation’s assets total more than $4 million, with $300,000 distributed annually in scholarship support to incoming, continuing, and transferring students. In 2005 and 2006, an additional $1,000,000 in scholarships were awarded to students enrolled in the Passport to College program, a nationally recognized early outreach initiative.

Currently, the Foundation is in the midst of a Major Gifts Campaign—Campaign RCC—to raise significant gifts for several initiatives of the District, including construction of the Riverside Aquatics Complex, equipment for the School of Nursing/Science Complex, Allied Health equipment for the Moreno Valley college, and support for the construction management program at the Norco college.

The Foundation encourages outright gifts, pledges and planned gifts to further the mission of the District.

The RCCD Foundation Office is located in the RCCD Alumni House. If you would like to learn more about the RCCD Foundation or you are interested in gift and scholarship opportunities, please call (951) 222-8626.

**RCCD ALUMNI HOUSE**

In 1998, the RCCD Board of Trustees and the RCCD Foundation Board of Directors approved the purchase of the historic Alabaster Home located at 3564 Ramona Drive and transformed the home into the RCCD Alumni House. The house overlooks the Riverside City college, and serves as a gathering place for the community and college family—a place where traditions are celebrated and a legacy is built for future RCCD students. The upstairs rooms have been designated as offices for the RCCD Foundation. Downstairs rooms are regularly used for college and community meetings and events, as are the outside gardens. The RCCD Alumni House remains true to its heritage, preserving the many historic features found throughout the building. Offices located in the RCCD Alumni House are generally open Monday through Friday, 8 a.m. - 5 p.m. For more information, please stop by or call the RCCD Foundation at (951) 222-8626.

**RCCD ALUMNI BRICK CAMPAIGN**

In 2003, the RCCD Foundation officially launched the Alumni Brick Campaign in the rear courtyard of the RCCD Alumni House. The courtyard creates a beautiful focal point in the home’s garden, and a visual testament to RCCD Alumni and friends of the college. For gifts
of $100 or more, you can purchase a brick and have it personalized to commemorate your time at RCCD, honor a friend or loved one, or celebrate an important milestone. More than 400 engraved bricks already have been installed. Call (951) 222-8626 for additional information or to order your Alumni Brick today!

SOCIAL EVENTS
An extensive program of activities is provided by the Associated Students Norco College (ASNC). A calendar of these events is maintained in the Library101. New and exciting activities are always planned. Please stop by and find out how you can get involved. You may also check out our web site at www.rcc.edu/asrcc/index.cfm

CLUBS AND ORGANIZATIONS
The ASNC sponsors many clubs/organizations. There are honorary, social services, professional and general interest clubs/organizations. Membership to these organizations is open to all paid members of the ASNC. Students are encouraged to join campus organizations or form new organizations. Not all clubs listed here are currently active. The Clubs and Organizations Guide offers a complete listing of all campus clubs and procedures for starting a new club. Club guides are available in the Student Activities/Government offices.

Honors
AGS (Alpha Gamma Sigma)

Athletics
Soccer Club

Religious
Mustangs for Christ

Academic
Puente
Talented tenth Program (T3P)
NORCO VOICE (Journalism)
Choir

Business
SIFE (Students in Free Enterprise)
Entrepreneur Club

Social and Cultural
Le Club Francais
Anthropology
LPEC (Latinos Promoting education and Culture)

Special Interest
AOP (Artistic Outreach Program)
ECEC (Early Childhood Education Club)
Karate

COLLEGE HOUR
Riverside Community College District is committed to a strong curricular program which is intended to complement the instructional program by offering a broader educational experience providing two “activity hours” per week: Tuesday/Thursday. During College Hour, an extensive program of activities (e.g., lectures, films) is provided by the ASNC. A master calendar of these events is maintained in the Student Activities Office.

DEAN OF STUDENT SERVICES
Many student services and student government activities are the responsibility of the College Dean of Student Services. The Student Activities Coordinator is located in the Student Activities Office.

EDUCATIONAL SERVICE-SOCIAL
Student clubs and organizations give a major part of their time for improvement of the college and community through service projects. Although social events are planned throughout the year, the primary goal is to maintain high scholastic standards. Clubs and organizations also exist to provide various kinds of service to the college and to the larger community as well.

FERPA
Students have the right to stop the use of their social security number in a manner otherwise prohibited by submitting a written request to Admissions with photo identification.

HONOR SOCIETY
Riverside Community College District had its own honor society from 1921 until 1953. In the spring of that year, the college was granted membership in Alpha Gamma Sigma, The California community college honor society. Alpha Gamma Sigma chapter was granted its charter on May 8, 1953.

Entering freshmen may join Alpha Gamma Sigma with a temporary membership if they are life members of the California Scholarship Federation. Riverside Community College District students are eligible with a cumulative Riverside Community College District grade point average (GPA) of 3.0 or above.

SMOKING POLICY
Smoking of any form of tobacco or non-tobacco products is prohibited on District grounds, in all District vehicles, at any activity or athletic event and on all property owned, leased, or rented by or from the District, unless a tobacco use area has been designated. On the Norco College, three designated smoking areas are available.

STUDENT ACTIVITIES OFFICE
The Student Activities Office is rich with activities, events, information, and resources, and acts as a focal point for service and leadership development programs.

Programs and Services
• Support for the Associated Students of Riverside Community College District
• Support for college clubs and organizations
• College social, recreational, cultural, and educational programming
• Community service and volunteer activities
• Leadership development opportunities
• On-campus events

These services enhance the educational experience of students and foster social, intellectual, and physical growth. The staff is firmly committed to actively promoting student involvement and development. The Student Activities Office is located in Library 101.

STUDENT GOVERNMENT
Riverside Community College District has one of the most active student government programs in the country. In addition, the Associated Students at Norco College produce a Halloween Town and many other successful activities.

The student government is responsible for representing the social, political, and educational concerns of our students. The main purpose of student government is to provide student leaders with skills beyond
what they learn in the classroom. Interpersonal communication, budget control, entrepreneurial skills, creativity, and activity planning are just a few of the skills that our very active student leaders learn.

Students can become involved in ASNC either by running for office or by applying for the various appointive positions, committees or by becoming involved in a wide range of other activities.

Riverside Community College District strongly encourages student participation. Students who wish to become involved should visit the Student Activities Office.

**STUDENT EMPLOYMENT SERVICES**

The **Student Employment Program** helps students earn money to pay for their educational expenses by working part-time (up to 20 hours per week). Hourly pay rates vary and currently start at the current federal minimum wage (currently $8.00 per hour); however, some positions may start at a higher rate of pay. The benefits of student employment include:

- Supervisor will work around a student’s class schedule
- Helps students pay for educational expenses
- Helps students gain work experience

There are multiple types of employment through the Student Employment Program:

1. **Federal Work Study (FWS)**

   **Students must:**
   - Have completed the Free Application for Federal Student Aid (FAFSA) which can be completed online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).
   - Have completed their financial aid file.
   - Have been determined eligible for financial aid.
   - Meet the Student Financial Services Satisfactory Academic Progress standard.
   - Maintain at least 6 units (Fall and Spring) and 3 units (Winter or Summer).
   - Maintain a minimum 2.0 CGPA.

   Students have the potential to be awarded and earn up to $4,000 during a fiscal year (July 1st through June 30th)

   **Types of FWS Programs**
   - On Campus Positions
   - Off Campus Positions
     1. America Reads
     2. America Counts
     3. Community Service
     4. Literacy

2. **District (non-work study) Employment**

   These positions are available on each campus throughout the district and do not require the completion of the FAFSA. Earnings are paid from a department’s budget.

   **Students must:**
   - Maintain at least 6 units (Fall and Spring) and 3 units (Winter or Summer).
   - Maintain a minimum 2.0 CGPA.

   Students must have a valid social security card and picture ID with the same name in which they register for classes, along with completing additional documentation for an FWS or District position. For more information please refer to our website [www.rcc.edu/services/workforce](http://www.rcc.edu/services/workforce).

   Federal Work Study and District positions may be viewed at [www.jobs.rcc.edu](http://www.jobs.rcc.edu) 24 hours a day, seven days a week.

3. **CalWORKs Work Study**

   The CalWORKs Work Study program connects eligible CalWORKs students to entry level employment opportunities related to their course of study. The focus is to link employers to students who can learn initial job skills and maintain long-term employment directed toward career development while continuing their college course work. CalWORKs Work Study sites are primarily off-campus.

   **Students must:**
   - Be enrolled in at least one unit.
   - Maintain a minimum 2.0 CGPA.
   - Maintain eligibility with GAIN.

   **Student Employment Services location and contact information**

   Norco: Student Services Building
   2nd Floor
   (951) 372-7190

   **TRIO PROGRAM**

   The Trio Program is federally funded by the U.S. Department of Education. Participants must meet specific federal guidelines and program expectations.

   The Norco College sponsors the TRIO- Student Support Services (SSS) program. This program offers qualifying RCC, Norco students a strong academic support and learning community that will assist students in mastering their college transition. The primary goal of the program is to increase their retention and graduation rates, facilitate their transfer from two-year to four-year colleges, and foster an institutional climate supportive of the success of low-income and first generation college students and students with disabilities.

   **Services include:**
   - Tutoring
   - University Tours
   - Cultural Activities
   - Early Registration
   - Supplemental Grant Aid
   - Summer Bridge Program
   - Book Loan Program
   - Academic, Career/Transfer and Personal Counseling

   **To be eligible for SSS, a student must be:**
   - A first generation college student, low income, or disabled
   - Interested in transferring to a four-year institution
   - A full-time student (12 units or more)
   - Maintain a 2.5 grade point average or better
   - Enroll at RCC, Norco College

   For more information call (951) 372-7149

**TUTORIAL SERVICES**

**Why should you come for tutoring?**

- You can increase your independence as a learner
- You can use your limited study time more effectively
- Individual and group sessions are offered
- Tutoring is free to RCCD students
- You can receive up to 3 hours per week/per subject
- Our tutors not only deliver content information, they motivate, coach, challenge and provide feedback to you.
Tutoring sessions are led by qualified tutors who received an “A” or “B” in the respective courses for which they choose to tutor. They reinforce specific course material emphasized by the professors and use their own successful student experiences to integrate what-to-learn with how-to-learn. All of our tutors come highly recommended by the college’s faculty members.

Subject areas offered for tutoring change each semester, but may include math, chemistry, history, psychology, physics, biology, anatomy and physiology, sociology, business administration, computer information, Spanish, French, and many more.

Tutorial Services is here to provide a supportive learning environment to all of our students seeking academic support. We strive to help our students develop the skills necessary to be a successful student and to be prepared for a successful career after graduation.

**How To Obtain Tutoring Services**
If you are in need of a tutor, please follow these simple steps to secure your appointment:
- Stop by the office or call to see if a tutor is available in the subject area you need help in.
- Be prepared to give the days and times you are available to receive tutoring.
- Make an appointment with the tutor by coming in or calling the office.
- Meet with your tutor during your appointment time on campus.

**How To Become A Tutor**
Tutoring offers a great opportunity to earn while you learn!
Tutors must have passed the class (es) they are tutoring in with at least a “B” grade or higher and:
- Maintain a GPA of 2.0 or higher each semester
- Complete and submit a student application
- Follow Tutorial Policies and Procedures
- Submit Faculty Recommendation(s) completed by RCCD instructors
- Submit a hire packet to Student Employment
- Enjoy working with and helping others
- Have a positive attitude and enjoy being part of a team
- Maintain enrollment in a minimum of 6 units if actively tutoring during the fall or spring terms
- Maintain enrollment in a minimum of 3 units if actively tutoring during the summer or winter terms.

Students interested in becoming employed as tutors are welcome to pick up an application at the Tutoring Center or call one of the offices for more information. Applications are continually being accepted.

**Norco College**
Student Services Building
Telephone number: (951) 372-7143
Fax number: (951) 372-7076
Section III

GRADUATION REQUIREMENTS
ASSOCIATE DEGREE

PHILOSOPHY FOR THE ASSOCIATE DEGREE
The awarding of an associate degree is intended to represent more than an accumulation of units. It symbolizes the successful attempt on the part of the district to lead students through patterns of learning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate clearly and effectively, both orally and in writing; to use mathematics; to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capacity for self-understanding.

GRADUATION REQUIREMENTS FOR THE ASSOCIATE DEGREE
All programs of study leading to completion of a Certificate, A.S. degree, or A.A. degree require careful planning with the assistance of a counselor from the beginning. Students interested in career and technical education (formerly occupational education) will want to follow the requirements of a specific certificate or A.S. degree leading directly to a career. Students who plan to transfer to a bachelor’s degree granting institution should consult a counselor to determine the specific courses required for admission to their four-year institution of choice.

Students may earn an A.A. / A.S. degree with an emphasis in one of the eight areas of emphasis and enter the workplace or transfer to a four-year institution with enhanced skills in critical thinking and written and oral communication. Students intending to transfer to a bachelor’s degree granting institution can use one of these eight areas to fulfill many lower division major requirements while taking additional transferable courses in closely related areas of study.

The governing board of Riverside Community College District shall confer the degree of associate in one of the eight areas of emphasis upon the student who has demonstrated competence and who has completed the following requirements:

I. RESIDENCE REQUIREMENT
In order to receive an A.A. / A.S. degree from Riverside Community College District, a student must complete 15 units in residence at any college within the Riverside Community College District. To receive a certificate, a student must complete a minimum of fifty percent (50%) of the required units at Riverside Community College District.

II. ACADEMIC COURSEWORK TAKEN AT OTHER COLLEGES AND UNIVERSITIES
Official transcripts from all schools and colleges attended must be dated within the preceding 90 days/3 months, be in their original sealed envelope, and be submitted to the Admissions and Records office. Course credit is accepted from all regionally accredited institutions as listed in the AACRAO Handbook. Credits from institutions, which are in candidacy status, will be accepted after full accreditation is granted. The two years preceding full accreditation will also be applicable towards the A.A./A.S. Degree. Honors for graduation will be calculated in the same manner.

III. GRADE POINT AVERAGE REQUIREMENT
A student must have a minimum grade point average of not less than 2.0 (“C” average) in work taken at Riverside Community College District. In addition, overall grade point average, including units from both RCCCD and work attempted at all accredited colleges attended, must be not less than 2.0.

IV. UNIT REQUIREMENT
The associate degree requires a minimum of 60 units of college work, of which 18 semester units are in one of the eight areas of emphasis listed below. Students must also complete a minimum of 23 semester units (see section VI. General Education Requirements) in the following categories: Natural Sciences (3 units), Social and Behavioral Sciences (6 units), Humanities (3 units), Language and Rationality (10 units). While students wishing to transfer to a four-year university can fulfill the transfer requirements by completing a certificate of achievement in California State University General Education (CSUGE) or in Intersegmental General Education Transfer Curriculum (IGETC), they are encouraged to complete an associate degree.

ASSOCIATE OF ARTS

ADMINISTRATION AND INFORMATION SYSTEMS
Administration/Information Systems entails the study of theories, procedures and practices and the acquisition of skills necessary to function productively and effectively in an administrative work environment. Career paths chosen by students pursuing undergraduate studies in Administration/Information Systems typically include managerial positions in business and the public sector, administrative support positions, customer service, sales, accounting/bookkeeping and public relations.

Students completing associate degrees in Administration/Information Systems may obtain entry-level positions in the above career fields or may choose to transfer to a four-year college or university to pursue a bachelor’s degree in business, accounting, public administration, management information systems or related fields.

PROGRAM LEARNING OUTCOMES:
Students possessing an associate degree in Administration/Information Systems can be expected to demonstrate achievement of the following learning outcomes:

1. Categorize basic administrative terms, theories and principles;
2. Demonstrate basic understanding of economic systems, i.e., the manner in which goods are produced and distributed in a society and the means by which economic growth is achieved and sustained;
3. Understand and apply fundamental management principles, such as profit/loss, balancing accounts, conflict resolution, effective customer relations and time management;
4. Perform functions such as preparation of memoranda, utilization of spreadsheets, adherence to schedules and responding effectively to changes in the work environment;
5. Implement the fundamental concepts from courses in business, public administration, economics and/or information systems; and

The student must successfully complete 18 units of study with a grade of “C” or better or a “P” if the course is taken on a “pass-no pass” basis.
INCLUDED DISCIPLINES AND COURSES:

**Required Courses (9 units, selected from the following):**

- Accounting (ACC): 1A
- Business Administration (BUS): 10, **18A**
- Computer Information Systems (CIS): 1A
- Economics (ECO): 7, 7H, 8
- Political Science (POL): 8

**Electives Courses (9 additional units, selected from the following):**

- Accounting (ACC): 1A, 1B, 38
- Business Administration (BUS): 10, **18A**, **18B**, 20, 22
- Computer Information Systems (CIS): 1A, 1B, 2, 3, 5
- Computer Applications and Office Technology (CAT): 3, 31
- Economics (ECO): 4, 6, 7, 7H, 8
- Library (LIB): 1
- Management (MAG): 44
- Marketing (MKT): 20
- Political Science (POL): 6, 8
- Speech Communications (SPE): 1, 1H, 6, 9, 9H, 12, 13

A course may only be counted once.

**Credit limitation:** UC will accept a maximum of one course for transfer

COMMUNICATION, MEDIA, AND LANGUAGES

Communications is the study of how humans construct meanings through interactions. Courses in this area may focus on the knowledge and skills needed to communicate effectively in oral, written, or visual forms; on the study of language and culture; and/or on a critical understanding of the structures and patterns of different kinds of communication as they affect individuals and society. Studies in Communication, Media, and Languages is designed for students interested in pursuing further studies in English, Journalism, Mass Communication, Media Studies, Speech Communication, and World Languages at four-year colleges and universities. It may be useful for students interested in pursuing careers in communications, graphic design, journalism, law, marketing, public relations, radio and television, translating, and writing, among others.

PROGRAM LEARNING OUTCOMES:

Students possessing an associate degree in Communication, Media and Languages can be expected to demonstrate achievement of the following learning outcomes:

1. Analyze college level texts to understand and apply themes and evidence in appropriate communication formats.

2. Evaluate purpose and audience to create well-developed, supported, and stylistically fluent responses in written or verbal form.

3. Evaluate and apply appropriate evidence in support of arguments made in different forms of communication.

4. Recognize and understand the role of nonverbal, verbal, interpersonal, visual, mass media, and cultural indicators inherent in different communication mediums.

5. Understand how socioeconomic and cultural factors work in constructing knowledge in different forms of communication.

6. Use a variety of research methods to collect and evaluate sources and evidence to apply in various forms of communication.

**The student must successfully complete 18 units of study across 3 disciplines: 9 units must be taken in a single discipline with a grade of “C” or better or a “P” if the course is taken on a “pass-no pass” basis.**

INCLUDED DISCIPLINES AND COURSES:

- Anthropology (ANT): 8
- Applied Digital Media (ADM): 1
- English (ENG): 1A, 1AH, 1B, 1BH, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 21, 22, 23, 25, 26, 30, 35, 38, 39, 40, 41, 44, 45, 48, 49
- Film, Television and Video (FTV): 12, 44, 45, 65
- Journalism (JOU): 1, 2, 7, 12, 20, 45, 52
- Library (LIB): 1
- Photography (PHO): 12
- Speech Communication (SPE): 1, 1H, 2, 3A, 5, 6, 7, 9, 9H, 10A, 10B, 11, 12, 13, 19

World Languages includes:

- Arabic (ARA): 1, 2, 3, 4, 11
- American Sign Language (AML): 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 20, 21, 22, 23
- Chinese (CHI): 1, 2, 11
- French (FRE): 1, 2, 3, 4, 8, 11
- German (GER): 1, 2, 3, 4, 11
- Greek (GRK): 1, 2
- Italian (ITA): 1, 2, 3, 11
- Japanese (JPN): 1, 2, 3, 4, 11
- Korean (KOR): 1, 2, 11
- Latin (LAT): 1, 2
- Portuguese (POR): 1, 2
- Russian (RUS): 1, 2, 3, 11
- Spanish (SPA): 1, 1A, 1B, 1H, 2, 2H, 3, 3N, 4, 8, 11, 12, 13, *51, *52, *53

FINE AND APPLIED ARTS

The Associate Degree in Fine and Applied Arts offers a rich variety of courses to acquaint students with the creation of and performance in the arts from a global perspective. The courses in this area examine the nature of the fine and applied arts through analysis, synthesis, composition, performance and technical development. Students will develop techniques appropriate to the art form, engage in the production and performance of the arts, examine aesthetic valuing, and participate in creative expression.

This area of emphasis is designed for students interested in exploring a variety of art forms including digital media, creative writing, dance, film, graphic design, music, photography, speech communication, television, theatre, video and the visual arts.

PROGRAM LEARNING OUTCOMES:

Students possessing an Associate of Arts Degree in Fine and Applied Arts can be expected to demonstrate achievement of the following program learning outcomes:

1. Demonstrate basic knowledge and skills (technique) in one discipline of the fine and applied arts. These include fundamentals of the field in terms of practice, history, analysis and their applications and technical ability in one discipline to create, sustain, and evolve a personal vision and/or purpose.
2. Develop a personal vision and/or purpose—sometimes called “artistic voice”—that is evident in terms of work produced and manifested in a portfolio, performance, or other presentation.

3. Generate and apply original ideas and methods to discover, create and communicate specific artistic content.

4. Demonstrate conceptual acuity, clarity, imagination, and technical ability to combine, integrate, and synthesize elements into works in ways that enhance their communicative powers.

**The student must successfully complete 18 units of study across a maximum of 3 disciplines with 9 units from a single discipline with a grade of “C” or better or a “P” if the course is taken on a “pass-no pass” basis.**

**INCLUDED DISCIPLINES AND COURSES:**

- Art (ART): 1, 2, 5, 6, 6H, 7, 8, 9, 10, 12, 15, 15A, 15B, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 200
- Dance (DAN): 3, 4, 5, 6, 7, 8, 9, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D30, D32, D37, D38, D39, D43, D44, D45, D46, D47, D48, D49, D51, D60
- English (ENG): 11, 12, 13, 17, 38, 39, 49
- Film, Television, and Video (FTV): 38, 41, 42, 43, 44, 45, 46, 48, 51, 52, 53, 60, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72
- Photography (PHO): 8, 9, 10, 17, 20, 200
- Speech Communication (SPE): 1, 1H, 2, 3A, 7, 10, 11, 19
- Theatre (THE): 2, 3, 4, 5, 6, 25, 26, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 41, 44, 46, 48, 49, 50, 51, 52, 54

**HUMANITIES, PHILOSOPHY, AND ARTS**

*Humanities, Philosophy, and Arts* examines human and experience within a wide range of cultures, across the globe, and over the course of history. Students will study, interpret, and evaluate classic works in architecture, art, literature, music, philosophy, religion, rhetoric and the theater, and they will encounter questions to which there are multiple plausible answers. The study of language, philosophy, and rhetoric provides crucial tools for understanding and interpreting human knowledge and experience. Students pursuing the program in the *Humanities, Philosophy, and Arts* will enhance their skills in critical thinking and both oral and written communication. The *Humanities, Philosophy, and Arts* program prepares students for further study in the arts, history, humanities, literature, philosophy, speech communication and/or world languages at a four-year baccalaureate institution and provides an excellent foundation for students interested in administration, communications, law, public service, and teaching.

**PROGRAM LEARNING OUTCOMES:**

Upon completion of this program, students will be able to:

1. Interpret key philosophical, religious and literary texts, as well as creative works, in historical and cultural contexts and express that interpretation persuasively in oral and/or written form.

2. Analyze the role and use of language, rhetoric and/or the arts in informing and contextualizing human experience.

3. Analyze the role and use of the arts (literature, music, theatre, dance, and the fine arts) as a reflection of the culture in which it appears.

4. Evaluate the role of individual human agency in history.

5. Research and write critical interpretive essays demonstrating a high skill level

**The student must successfully complete 18 units of study across 3 disciplines; 9 units must be taken in a single discipline. Up to 3 units may be taken in a studio course. The 18 units must be completed with a grade of “C” or better or a “P” if the course is taken on a “pass-no pass” basis.**

**INCLUDED DISCIPLINES AND COURSES:**

- Anthropology (ANT): 7, 8
- Architecture (ARE): 36
- Art (ART): 1, 2, 5, 6, 6H, 7, 8, 9, 10, 12
- Dance (DAN): 3, 6
- English (ENG): 1B, 1BH, 6, 7, 8, 9, 10, 14, 15, 16, 18, 21, 22, 23, 25, 26, 30, 35, 40, 41, 44, 45, 48
- Film, Television and Video (FTV): 12, 65
- History (HIS): 1, 2, 4, 5, 6, 6H, 7, 7H, 8, 9, 14, 15, 21, 22, 25, 26, 28, 29, 30, 31, 34, 35
- Humanities (HUM): 4, 4H, 5, 5H, 8, 9, 10, 10H, 11, 16, 18, 23, 35
- Library (LIB): 1
- Music (MUS): 19, 20, 21, 22, 25, 26, 89
- Philosophy (PHI): 10, 10H, 12, 13, 14, 15, 19, 20, 21, 22, 32, 33, 35
- Political Science (POL): 11
- Speech Communication (SPE): 1, 1H, 2, 3A, 5, 7, 9, 9H, 11, 12, 13, 19
- Theatre (THE): 3, 29
- World Language, including: Arabic (ARA): 1, 2, 3, 8, 11
- American Sign Language (AML): 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 20, 21, 22, 23
- Chinese (CHI): 1, 2, 11
- French (FRE): 1, 2, 3, 4, 8, 11
- German (GER): 1, 2, 3, 4, 11
- Greek (GRK): 1, 2
- Italian (ITA): 1, 2, 3, 11
- Japanese (JPN): 1, 2, 3, 4, 11
- Korean (KOR): 1, 2, 11
- Latin (LAT): 1, 2
- Portuguese (POR): 1, 2
- Russian (RUS): 1, 2, 3, 11

Applicable studio courses include (Note that some classes are less than three units.):

- Art (ART): 15, 15A, 15B, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 200
- Dance (DAN): 7, 8, 9, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D30, D32, D37, D38, D39, D43, D44, D45, D46, D47, D48, D49, D51, D60-67
- English (ENG): 11, 12, 17, 38
- Music (MUS): 38, 39, P12
Upon completion of PROGRAM LEARNING OUTCOMES: may require education beyond the Bachelor’s Degree. Nutritionist, and Physical Education and Health Education teachers Athletic Trainer, Physical Therapist, Exercise Physiologist, Sport Science, and Recreation and Leisure Studies Health Science, Nutrition, Physical Education/Kinesiology, Exercise area to prepare to transfer to four year institutions in majors such as the biology, anatomy and physiology of the human body.

Students who work closely with their counselor may use this emphasis area to prepare to transfer to four year institutions in majors such as Health Science, Nutrition, Physical Education/Kinesiology, Exercise Science, and Recreation and Leisure Studies. Some careers such as Athletic Trainer, Physical Therapist, Exercise Physiologist, Sport Nutritionist, and Physical Education and Health Education teachers may require education beyond the Bachelor’s Degree.

PROGRAM LEARNING OUTCOMES:
Upon completion of this emphasis area, the student will be able to:

1. Demonstrate understanding of the impact life choices have on overall human health and apply this knowledge to maintain healthful living appropriate to the situation.
2. Recognize the positive impact of physical activity in fostering optimal health and apply this knowledge to lifestyle choices.
3. Recognize and understand the role of individual decision-making processes to the development of strategies concerning personal health and wellness.

The student must successfully complete 18 units of study with a grade of “C” or better or a “P” if the course is taken on a “pass-no pass” basis.

INCLUDED DISCIPLINES AND COURSES:

**Required Courses (take 3 units in each of the two disciplines):**
Health Science (HES): 1
Physical Education/academic courses (PHP): 4, 6, 8, 10, 12, 16, 17, 18, 24, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 38, 47

**Elective Courses (12 additional units, selected from the following):**
Anatomy and Physiology (AMY): 2A, 2B, 10
Biology (BIO): 17, 30, 34
Early Childhood Education (EAR): 26
Guidance (GUI): 45, 46, 47, 48
Physical Education/academic courses (PHP): 4, 6, 8, 10, 12, 16, 17, 18, 24, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 38, 47

Physical Education/varsity courses (PHP): V01, V02, V04, V05, V06, V07, V08, V09, V10, V11, V12, V14, V18, V19, V20, V21, V22, V23, V24, V25

A course may only be counted once except for PHP activity or varsity courses.

SOCIAL AND BEHAVIORAL STUDIES
Social and Behavioral Studies is a collection of academic disciplines dedicated to the scholarly study of the human experience. As a comprehensive and multidisciplinary area of study, Social and Behavioral Studies will afford the student an opportunity to explore and examine the nature and multitude of interactive relationships amongst and between individuals and between the individual and their social environment; ranging from the development of the individual, to the nuances of interpersonal interaction, to the dynamic structures of national and global communities. Ultimately, the student of Social and Behavioral Studies will gain a heightened awareness of the nature of their individuality, attain a greater understanding and appreciation of the complexities and diversity of the world in which they live and, become better equipped to succeed in an increasingly diverse and complex society.

Career paths typically chosen by undergraduate students emphasizing Social and Behavioral Studies include: Law Enforcement, Law, Human Relations, Human Resources, Social Work, Professional Childcare and Public Service Agencies, Teaching across the educational and academic spectrum, Consultation in the public and private sectors, Governmental Advisors, Speechwriting, and both domestic and international business professions.

PROGRAM LEARNING OUTCOMES:
Upon completion of this area of emphasis, the successful student should be able to:

1. Demonstrate a knowledge and understanding that the development, maintenance, and adaptation of the individual self and the personality is a product of the interaction between the individual and their social environment.
2. Demonstrate a breadth of knowledge of the social and cultural environments at the local, regional and global levels.
3. Demonstrate a working knowledge of the many facets and intricacies of social interaction from the intrapersonal, to the interpersonal to the societal levels.
4. Demonstrate an ability to apply the theories and principles of human development, human interaction, cultural diversity, and global awareness to their everyday lives.

The student must successfully complete 18 units of study across a minimum of 3 disciplines listed below with a grade of “C” or better or a “P” if the course is taken on a “pass-no pass” basis.

INCLUDED DISCIPLINES AND COURSES:
Administration of Justice/Justice Studies (ADJ): 1, 2, 3, 4, 5, 8, 9, 13, 14, 15, 30
Administration of Justice/Law Enforcement (ADJ): 6, 16, 18, 20, 21, 22, 23, 25
Anthropology (ANT): 1, 2, 3, 4, 5, 6, 7, 8, 10, 21
Border Studies (BOR): 31
Early Childhood Education (EAR): 19, 20, 28, 33, 40, 42, 43, 47
Economics (ECO): 4, 5, 6, 7, 7H, 8
Geography (GEG): 2, 3, 4, 6
Human Services (HMS): 4, 5, 6, 7, 8, 13, 14, 16, 18, 19
Library Science (LIB): 1
Political Science (POL): 1, 1H, 2, 2H, 3, 4, 4H, 5, 6, 7ABC, 8, 10A, 10B, 10C, 10D, 11, 12, 13, 14
Psychology (PSY): 1, 9, 33, 35
Sociology (SOC): 1, 2, 3, 10, 12, 15, 20, 22, 35, 45, 49
Speech Communication (SPE): 1, 1H, 2, 3A, 5, 6, 9, 9H, 10A, 10B, 12, 13

All courses in regular font are transferable to CSU with the courses in bold being transferable to both CSU and UC. Courses designated with a (*) are not transferable.

ASSOCIATE OF SCIENCE
CAREER AND TECHNICAL PROGRAMS
The Associate of Science Degree in Career and Technical Programs will be awarded upon completion of the requirements for the certificate or program of 18 units or more plus completion of the graduation requirements as described in the catalog, as well as electives, totaling 60 units of college work as required for the associate degree. Specific requirements for each program are listed in pages 67-107 of the catalog.

MATH AND SCIENCE
These courses emphasize the natural sciences, which examine the physical universe, its life forms, and its natural phenomena. Courses in Math emphasize mathematical, analytical, and reasoning skills beyond the level of intermediate algebra. Courses in science emphasize an understanding of the process of science and the scientific method. All courses emphasize the use of mathematics and science as investigative tools, the role of mathematics and science as part of human civilization and society, and the inherent value of both inductive and deductive reasoning as part of the human experience.

This area of emphasis is designed for general education students, as well as students interested in mathematics or sciences as a possible career path, with career opportunities included in mathematics, chemistry, physics, biology, ecological/earth sciences, geology, engineering, computer science, electronics, oceanography, microbiology, kinesiology/exercise science and the medical sciences.

PROGRAM LEARNING OUTCOMES:
Students possessing an associate degree in Math and Science can be expected to demonstrate achievement of the following learning outcomes:

1. Apply the basic operations of mathematics on the set of real and complex numbers, expressions, and equations
2. Apply the principles of the scientific method, including the use of inductive and deductive reasoning to pose, test, and accept or reject hypothesis.
3. Recognize and determine the role of mathematics and the sciences as investigative and reasoning tools of human societies.

The student must successfully complete 18 units of study with a grade of “C” or better or a “P” if the course is taken on a “pass-no pass” basis.

INCLUDED DISCIPLINES AND COURSES:
Required Courses (Take one course in each of the 3 categories, including one course with a lab):
Mathematics (MAT): 1A, 4, 5, 10, 11, 12, 12H, 25
Physical Sciences: Astronomy (AST) 1A, Chemistry (CHE) 1A, 1AH, 2A, 10, Geography (GEG) 1H, 1L, Geology (GEO) 1, 1L, 3, Oceanography (OCE) 1, Physical Science (PHS) 1, Physics (PHY) 2A, 4A
Life Sciences: Anatomy (AMY) 2A, Biology (BIO) 1, 2A, 5, 7, 8, 9, 11, 34, 36, Microbiology (MIC) 1

Elective Courses (The remaining units may be taken from any of the following courses):
Anatomy and Physiology (AMY): 2A, 2B, 10
Anthropology (ANT): 1, 2A, 2B, 3, 5, 6, 7, 8, 9, 10, 11, 12, 17, 30, 34, 36
Chemistry (CHE): 1A, 1AH, 1B, 1BH, 2A, 2B, 10, 12A, 12B, 17
Electronics (ELE): 21, 22, 23, 24, 25
Engineering (ENE): 1A, 1B, 10, 17, 20, 21, 22, 23, 26, 27, 28, 30, 31, 35, 45
Geography (GEG): 1, 1L, 1H, 5
Geology (GEO): 1, 1L, 1B, 3
Geographic Information Systems (GIS): 1
Health Science (HES): 1
Mathematics (MAT): 1A, 1B, 1C, 2, 3, 4, 5, 10, 11, 12, 12H, 25, 32, 36
Microbiology (MIC): 1
Oceanography (OCE): 1, 1L
Physical Science (PHS): 1, 5, 17
Physics (PHY): 2A, 2B, 4A, 4B, 4C, 4D, 10, 11
Psychology (PSY): 2

A course may only be counted once.
All courses in regular font are transferable to CSU with the courses in bold being transferable to both CSU and UC. Courses designated with a (*) are not transferable.

DEGREE CHANGE ALERT!
The math and English competency requirements for the associate degree will be changing beginning in fall 2009. All new students and all other students who are returning after a break in their continuous enrollment will be required to get a “C” or better in English 1A and Math 35 to complete the associate degree. Students who maintain continuous enrollment as defined in “Catalog Rights” will be able to fulfill this requirement by completing the previous requirements of Eng 50 and Math 52.

V. BASIC SKILLS COMPETENCY REQUIREMENT (0-7 UNITS)

A. Students must demonstrate minimum proficiency in mathematics by obtaining a satisfactory first-time score on an appropriate examination (recommended by the math department and approved by the curriculum committee), or by the successful completion of a Riverside Community College District mathematics course with a “C” or higher selected from Math 1-49, or the equivalent.

B. Students must demonstrate reading competency by obtaining:

1. a satisfactory score on RCCD’s placement test
equivalent to placement in college level reading;

OR

2. completion of Reading 83 with a “C” or higher;

OR

3. a minimum grade of “C” in each general education course;

OR

4. satisfactory reading score on a standardized reading test approved by the English department. Students who do not meet Riverside Community College District’s reading competency requirement should enroll in a reading class within their first 18 units undertaken at the college.

5. Students who have completed an associate’s or higher degree at an accredited institution are exempt from the reading competency requirement. Waivers may also be granted on a case-by-case basis.

C. Students must demonstrate basic competency in writing by successfully completing the general education requirements of English 1A or 1AH with a “C” grade or better.

VI. GENERAL EDUCATION REQUIREMENTS

General education is designed to introduce students to a breadth of study through which people comprehend the modern world. It reflects the conviction of Riverside Community College District that those who receive their degrees must possess in common certain basic principles, concepts and methodologies both unique to and shared by the various disciplines. Students must complete a minimum of 23 semester units as outlined in the following categories. Special workshop classes (numbered in the 100 series) cannot be used to fulfill general education requirements. The following basic skills courses are non-degree applicable: English 60AB, 60A1, 60A2, 60A3, 60A4, 90B; English as a Second Language 51, 52, 53, 71, 72, 90 A-K, 91, 92, 95, Mathematics 63, 64, 65, 90 A-F, 98; and Reading 81, 82, 83, 86, 87, 95.

The following courses are also non-degree applicable: Art 95 to 99; Computer Applications and Office Technology 99 ABCDE; English 85; English as a Second Language 65; Guidance 95; Nursing (Continuing Education) 81, 83; Spanish 85; and practicum numbered 96, 96A and 97.

A. NATURAL SCIENCES (3 UNITS)

Any course for which the student is eligible in anatomy and physiology, Anthropology 1, astronomy, biology, chemistry, Geography 1 or 5/Physical Science 5, geology, microbiology, oceanography, physical science, physics and Psychology 2. Waiver for this requirement will be granted for Cosmetology 60C, and Electronics 21 or 22.

B. SOCIAL AND BEHAVIORAL SCIENCES (6 UNITS)

1. American Institutions (3 units)

   History 6 or 6H, 7 or 7H, 8, 9, 15, 26, 28, 29, 30, 31, 34, 53
   or Political Science 1 or 1H, 5
   AND

2. Social and Behavioral Sciences (3 units)

   Any course for which the student is eligible in anthropology (except Anthropology 1), economics, geography (except Geography 1 and 5), history (except as listed in “1” above), human services, military science, political science (except as listed), psychology (except Psychology 2), and sociology.

C. HUMANITIES (3 UNITS)

Any course for which the student is eligible in American Sign Language 1, Architecture/Engineering 36, art, Dance 3, 4, 5, 6, 7, 8, 9, English, foreign languages, History 1, 2, 4, 5, humanities, music, philosophy (except Philosophy 11 and 32), Photography 8, Speech 7, theater arts, and film, television and video.

D. LANGUAGE AND RATIONALITY (10 UNITS)

1. English composition (4 units).

   Courses fulfilling the written composition requirement include both expository and argumentative writing. The English composition requirement may be met by English 1A or English 1AH, with a grade of “C” or better.

2. Communication and analytical thinking (6-8 units)

   Courses fulfilling this requirement include oral communication, mathematics, logic, statistics, computer languages and programming. Students must complete one course from two of the following areas:

   - Computer Information Systems 1A through 30
   - English 1B or 1BH
   - Mathematics 1-49
   - Philosophy 11, Philosophy/Math 32
   - Speech 1 or 1H, or 9 or 9H

VII. ADDITIONAL DEGREE REQUIREMENTS

A. Health Education (3 Units)

   Health Science 1 or completion of the DEH, EMS, PA, RN or VN program.

B. Self Development (2 or 3 units)

   1. Physical Education (two activities courses)

      Any course with an A or V, or any Dance class with D is considered an activity class. The following classes have a laboratory component and may be counted as one of the two activity courses required.

      - PHP-6 Physical Education for Elementary and Pre-School
      - PHP-29 Soccer Theory and Practice
      - PHP-42 Lifeguard and Water Safety Instructor’s Certification
      - PHP-47 Hiking and Backpacking
      - DAN-3 World Dance Survey
      - DAN-5 Movement Education for Elementary and Pre-School
      - MUS-45 Marching Band Woodwind Methods
      - MUS-46 Marching Band Brass Methods
      - MUS-47 Marching Band Percussion Methods
      - MUS-48 Marching Band
      - MUS-59 Winter Marching Band Clinic
      - MUS-60 Summer Marching Band Clinic
      - MUS-61 Auxiliary Marching Units

      OR

   2. Fitness and Wellness (3 units)

      - PHP-4 Nutrition
      - PHP-30 First Aid and CPR
      - PHP-35 Foundations for Fitness and Wellness
      - PHP-36 Wellness: Lifestyle Choices
NOTE: Students are exempt from the Self Development requirement when they complete the Cosmetology program, the Registered or Vocational Nursing Program, the Basic Peace Officer Training Academy, the Firefighter Academy, the EMS Program, or the Physician Assistant program.

VIII. CERTIFICATE PROGRAM
Students who have satisfied the requirements for a certificate of achievement while completing the requirements for an Associate of Science Degree will be awarded a certificate, and notation of the award will be indicated on the student record. Fifty percent of the coursework required in any certificate pattern must be completed at Riverside Community College District.

IX. PETITION FOR GRADUATION (DEGREE OR CERTIFICATE)
Students may apply for degrees and certificates during the following application periods:

Summer – First day of summer term through July 15 to apply for summer 2010, fall 2010, winter 2011, spring 2011

Fall – First day of fall term through October 15 to apply for fall 2010, winter 2011, spring 2011

Winter – First day of winter term through February 1 to apply for winter 2011, spring 2011

Spring – First day of spring term through April 1 to apply for spring 2011

Students who apply during these periods may participate in the Commencement ceremony as long as they are missing no more than 9 units to graduate.

Students who want to participate in the commencement ceremony must file their application by April 1st. Students applying for a degree must pay a $5.00 diploma fee at the time of application. In order to receive a diploma or a certificate, all fees must be paid in full.

X. SECOND DEGREES
Students may earn one Associate of Arts Degree, one Associate of Science (General A.S.) Degree, and any occupational Associate of Science Degree for which they qualify. This means that a student may qualify for more than one degree during any one given term. Students who complete and apply for a degree within the same academic year will be awarded the degree effective the term in which all requirements are met.

Students who have met degree requirements in a previous academic year and have not maintained continuous enrollment will be awarded the degree in the term in which the application is submitted, provided all current degree requirements are met.

XI. CATALOG RIGHTS
Graduation requirements apply to students who are enrolled for any term (summer, fall, winter, spring) indicated by this catalog – Summer 10 through Spring 11. Students who enrolled prior to this current year and who have maintained continuous enrollment have the option of meeting the current requirements or those in effect at the time their continuous enrollment began. Continuous enrollment is defined as attendance of one term during each academic year.

SCHOLASTIC HONORS AT COMMENCEMENT
Honors at commencement will be awarded to students with a cumulative GPA of 3.30 or higher. Their names are listed in the commencement program as receiving the Associate Degree with Distinction (3.30 GPA) or with Great Distinction (3.70 GPA). A gold tassel will be worn by students graduating with honors. Coursework taken during the final spring semester will not be used to calculate honors at commencement. Grade point averages are not rounded up. The cumulative GPA includes coursework taken at Riverside Community College District and at all other accredited institutions.

DEAN’S LIST
Each semester, those students who have demonstrated outstanding scholastic achievement by completing at least 12 units of credit-graded work in one semester or 12 units of credit-graded work earned in no more than one academic year (fall, winter and spring, with summer being excluded) with a grade point average of 3.0 or better (completed units will be considered only once for a particular Dean’s List) will be recognized by a letter from the Dean of Instruction.

ACADEMIC APPEALS BY STUDENTS
When a student takes issue with an instructional decision or an application of a stated policy, the student should first discuss this matter with the faculty member who made the decision or applied the policy. If the matter cannot be resolved through this initial discussion, the student has the right to appeal the decision or application through regular college channels. See Board Policy 5500 for details.

For academic matters related to class activities, requirements, and evaluation, the student should first discuss the matter with the instructor. If an appeal is desired, the student then should take the matter up with the appropriate department chair responsible for the instructional area. If further appeal is requested, the student can continue the process by meeting with the Dean of Instruction. If the problem cannot be resolved at that level, the student should then present the problem to the Chief Instructional Officer who will first attempt an informal resolution of the problem, and that failing will establish a formal ad hoc committee to review the matter as delineated in the student handbook. Upon receipt of the committee’s recommendation, the Chief Instructional Officer submits a decision in writing. Appeal may be made to the Chief Executive Officer. The final appeal a student can make is to the College Board of Trustees.

In non-academic matters, the appeal procedure is comparable, but is made through the appropriate student personnel administrator to the Dean of Student Services, Chief Services Officer and thence to the Chief Executive Officer. The final appeal a student can make is to the Board of Trustees.

Information on students’ rights and responsibilities, expected standards of conduct, disciplinary action and the student grievance procedure for disciplinary and matters other than disciplinary can be found in the Student Handbook and the Standards of Student Conduct section of the catalog.

STANDARDS OF SCHOLARSHIP:
PROBATION AND DISMISSAL
The policies of probation and dismissal are applicable to day or evening, full-time or part-time students. Students with an academic status of probation or dismissal will be limited to a maximum of 13 units during Fall/Spring semesters. Probationary students may enroll in
no more than seven (7) units during intersessions. Dismissal students will be limited to one (1) course during intersessions.

**Standards for Probation**
Riverside Community College District utilizes two major standards for evaluating satisfactory academic progress. These are as follows:

1. **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 he or she has earned a cumulative grade point average below 2.0 in all units which were graded on the basis of the RCCD grading scale.

2. **Progress probation:** A student who has attempted at least 12 semester units as shown by the official academic record shall be placed on progress probation when the cumulative percentage of unsuccessful units attempted at RCCD reaches or exceeds 50%.

3. A student on academic probation for a grade point deficiency shall achieve good standing when the student’s accumulated grade point average is 2.0 or higher.

4. A student on progress probation because of an excess of unsuccessful units attempted at RCCD shall achieve good standing when the percentage of units in this category drops below 50 percent.

A student who feels an error has been made in his academic status should make an appointment with an RCCD counselor. The counselor will review the student’s academic record and either explain how the student achieved that status or, in the case of an error, notify the Dean of Student Services at their college.

**Standards for Dismissal**
Students failing to maintain satisfactory academic progress may be subject to dismissal from the college under conditions specified as follows:

1. A student who is on academic probation shall be subject to dismissal if he or she earned a cumulative grade point average of less than 2.0 in all units attempted in each of two consecutive full-term (Fall/Spring) semesters of attendance which were graded on the basis of the RCCD grading scale.

2. A student who has been placed on progress probation shall be subject to dismissal when 50% or more of all units in which the student has enrolled are recorded as entries of “F”, “W”, “I” and “NP” in at least two consecutive semesters (Fall/Spring) of attendance at RCCD.

3. A student shall remain on dismissal status until good standing is met by achieving a cumulative gpa of a 2.0 or higher and completing over 50% of the total number of units attempted.

4. A student who has been reinstated will immediately be subject to dismissal if the cumulative grade point average falls below a 2.0 or the number of units for which “F”, “W”, “I” “NP” and “NP” are recorded meets or exceeds 50%.

**GRADING SYSTEM**

**Grades**
Riverside Community College District uses the letter system of grading the quality of work performed by students. The following grades are used:


“Military withdrawal” occurs when a student who is a member of an active or reserve United States military service receives orders compelling a withdrawal from courses. Upon verification of such orders, a withdrawal symbol may be assigned at any time after the period established by the governing board during which no notation is made for withdrawals. Military withdrawals are not counted in progress probation and dismissal calculations. “Ws incurred during the period between January 1, 1990 and the effective date of this paragraph, which meet the definition of military withdrawal herein, are not counted in progress probation and dismissal calculations and may be changed to “MW”.

Students should refer to WebAdvisor for withdrawal deadlines.

An “I” is given only in cases where a student has been unable to complete academic work for an unforeseeable, emergency and justifiable reasons. The condition for removal of the “I” shall be stated by the instructor in a written agreement. A copy will be kept on file in Admissions and Records 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. A copy of this record shall be kept in the files of the appropriate department chairperson. The “I” may be made up no later than one year following the end of the term in which it was assigned. The “I” symbol shall not be used in calculating units attempted nor for grade points. The “I” symbol will be changed to the grade the instructor has predetermined, if the student does not meet the conditions of the agreement.

**Grade Points**
On the basis of scholarship grades, grade points are awarded as follows: “A”, 4 points per units of credit; “B”, 3 points per unit of credit; “C”, 2 points per unit of credit; “D”, 1 point per unit of credit; “F”, no points per unit of credit. On computing the grade point average, units attempted are not charged and grade points are not awarded for the following: “I”, “W”, “NP”, “P”, “IP”, “RD”, or “MW”.

**Grade Changes**
Students have one year following the term in which the grade was recorded to request a change of grade. After the one-year limit, the grade is no longer subject to change. Students must file an Extenuating Circumstances Petition (ECP) with the Admissions and Records office at one of the three colleges.

**Extenuating Circumstances Petition**
This petition is for students who encounter situations involving extenuating circumstances, emergencies that may affect their education records and fall outside the realm of normal college policy and procedures. Failure to be aware of deadlines and expected failure in a course are not acceptable reasons for filing an Extenuating...
Circumstances Petition. The student bears the burden and is responsible for showing that grounds exist for the Extenuating Circumstances Petition (ECP). Students have one year following the term in which a grade was submitted to request a change of grade.

Auditing Classes
RCCD offers students the option of auditing courses. Instructions for auditing are as follows:

1. Students may not audit a class unless he/she has exhausted all possibilities to repeat the class for credit.
2. Permission to audit a class is done at the discretion of the instructor and with instructor’s signature.
3. When auditing, student shall not be permitted to change his/her enrollment in that course to receive credit.
4. With the instructor’s signature and permission, a credit student may switch his/her enrollment to audit status provided the change is completed prior to 30% of course for short term courses.
5. With the instructor’s signature and permission, a student may enroll in a course for audit at any time during the semester if he/she has not enrolled in that course for credit during the same semester.
6. No student will be allowed to enroll for audit prior to the first day of the course. The first day of the course refers to the actual course meeting.
7. Credit students have priority over auditors. If a course closes after an auditor has been admitted, the auditor may be asked to leave to make room for the credit student. Instructor’s discretion is strongly recommended.
8. The audit fee is $15 per unit. Students enrolled in 10 or more semester units may audit 3 units of audit free (may be 3 one-unit courses). The $15 per unit audit fee will automatically be charged if the student drops below 10 units.

Students wishing to audit should be aware that audited classes will not appear on the RCCD transcript. Forms and information are available at the Admissions offices on the Riverside, Moreno Valley and Norco college.

Pass/No Pass Classes
Discipline faculty are responsible for determining the appropriate Pass/No Pass option for each course. All sections of the course must be offered in the same manner. Courses may be offered for Pass/No Pass in either of the following categories and will be specified in the catalog:

1. Class sections wherein all students are evaluated on a Pass/No Pass basis.
2. Courses in which each student has the option to individually elect Pass/No Pass or letter grade. Students electing this option must file a petition in the Admissions office at Riverside, Moreno Valley, or Norco by the end of the fifth week of the semester or by the end of the first 30% of a shorter-than-semester term.

All units earned on a Pass/No Pass basis in accredited California institutions of higher education or equivalent out-of-state institutions are counted in satisfaction of community college curriculum and graduation requirements.

Units earned on a Pass/No Pass basis are not used to calculate grade point averages. However, units attempted for which “NP” is recorded are considered in probation and dismissal procedures.

Final Examinations-Final Grades
Final semester exams are required in all classes at the scheduled time and place. Failure to appear for a final examination may result in an "F" grade in the course. Final grades may be obtained on WebAdvisor or Phone Reg immediately after they are submitted by the instructor.

Advanced Placement
Riverside Community College District recognizes the Advanced Placement Program of the College Entrance Examination Board. Students will be granted credit for Advanced Placement examinations with a score of three, four or five in specified subject areas. Advanced Placement credit is granted for the fulfillment of Riverside Community College District programs only. Other colleges or universities may have different policies concerning Advanced Placement. Therefore, the transfer institution will re-evaluate the Advanced Placement scores based upon their own college policies. For further information, see a counselor for specific subject credit areas available.

Advanced Placement (AP) and International Baccalaureate (IB) Credit
Students who have successfully completed courses in the AP Program of the College Entrance Examination Board with scores of 3, 4 or 5 may earn credit for each Advanced Placement course. Students may also receive credit for a score of 5, 6, or 7 for International Baccalaureate (IB) exams. Credit awarded through AP or IB may be used towards graduation requirements, IGETC, and CSU GE Breadth Requirement Certifications. (English 1B earned through AP may not be used to meet the Critical Thinking requirement in the IGETC Group B - Critical Thinking or the CSU GE Breadth Requirements in Area A.3, see page 53 in the catalog.) Official Placement Scores should be sent to the Admissions and Records Office for official evaluation.

Course credit and units granted at Riverside City (Norco, MV) College may differ from course credit and units granted by a transfer institution.

Please see a counselor to review the applicability of AP and IB credit to different academic requirements.
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<th>IGETC Area</th>
<th>RCCC Equivalent</th>
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<td>5A with lab</td>
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<td>3B &amp; 6A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics B</td>
<td>Natural Sciences</td>
<td>5A with lab</td>
<td>Physics 2A &amp; Physics 2B</td>
<td>4 + 4</td>
</tr>
<tr>
<td>Physics C mechanics</td>
<td>Natural Sciences</td>
<td>5A with lab</td>
<td>Physics 4A</td>
<td>4</td>
</tr>
<tr>
<td>Physics C electricity/magnetism</td>
<td>Natural Sciences</td>
<td>5A with lab</td>
<td>Physics 4B</td>
<td>4</td>
</tr>
<tr>
<td>Psychology</td>
<td>Social/Behavioral Sciences</td>
<td>4I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spanish Language</td>
<td>Humanities</td>
<td>3B &amp; 6A</td>
<td>Spanish 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>Humanities</td>
<td>3B &amp; 6A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td>Language &amp; Rationality</td>
<td>2A</td>
<td>Math 12</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History</td>
<td>Social/Behavioral Sciences</td>
<td>(3B or 4F)US 1</td>
<td>History 6 &amp; 7</td>
<td>3 + 3</td>
</tr>
<tr>
<td>World History</td>
<td>Social/Behavioral Sciences</td>
<td>3B or 4F</td>
<td>History 1 &amp; 2</td>
<td>3 + 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IB Exam</th>
<th>RCCD General Education Area</th>
<th>IGETC Area</th>
<th>RCCD Semester Units</th>
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</thead>
<tbody>
<tr>
<td>IB Biology</td>
<td>Natural Sciences</td>
<td>5B (without lab)</td>
<td>3</td>
</tr>
<tr>
<td>IB Chemistry HL</td>
<td>Natural Sciences</td>
<td>5A (without lab)</td>
<td>3</td>
</tr>
<tr>
<td>IB Economics HL</td>
<td>Social/Behavioral Sciences</td>
<td>4B</td>
<td>3</td>
</tr>
<tr>
<td>IB Geography HL</td>
<td></td>
<td>4E</td>
<td>3</td>
</tr>
<tr>
<td>IB History (any region) HL</td>
<td>Social/Behavioral Sciences</td>
<td>3B or 4F</td>
<td>3</td>
</tr>
<tr>
<td>IB Language A1 (Any language except English HL)</td>
<td>Humanities</td>
<td>3B &amp; 6A</td>
<td>5</td>
</tr>
<tr>
<td>IB Language A2 (Any language except English HL)</td>
<td>Humanities</td>
<td>3B &amp; 6A</td>
<td>5</td>
</tr>
<tr>
<td>IB Mathematics HL</td>
<td>Natural Sciences</td>
<td>2A</td>
<td>3</td>
</tr>
<tr>
<td>IB Physics HL</td>
<td>Natural Sciences</td>
<td>5A (without lab)</td>
<td>4</td>
</tr>
<tr>
<td>IB Psychology HL</td>
<td>Social/Behavioral Sciences</td>
<td>4I</td>
<td>3</td>
</tr>
<tr>
<td>IB Theater HL</td>
<td>Humanities</td>
<td>3A</td>
<td>3</td>
</tr>
</tbody>
</table>
CREDIT BY EXAMINATION
Credit may be granted to any student who satisfactorily passes an examination approved or conducted by the discipline or program in which a comparable course is offered. In the case of foreign languages students must complete a higher level course in order to receive credit for a lower level language course.

To be eligible to petition for credit by examination, a student must be currently enrolled, fully matriculated, in good standing and have completed not less than 12 units of work at Riverside Community College District with an overall grade point average of 2.0 ("C"). The option for credit by examination may not be available for all course offerings; contingent upon discipline curricular decisions as approved by the Office of Academic Affairs.

Students must apply for credit by examination on the appropriate petition form obtained from the Admissions office at the Riverside, Moreno Valley and Norco colleges and pay enrollment fees including out of state and/or out of country tuition where applicable.

A student may receive credit by examination in one course for each semester or summer/winter intersession in a total unit amount not to exceed 15 units. Work experience classes are excluded from credit by examination.

After the discipline faculty has determined the student’s evaluative symbol, the student will be notified and the permanent record will reflect the credit and/or grade.

Credit by examination is not treated as part of the student’s study load for any given semester, or for eligibility purposes and therefore, will not require a petition for excess study load. It is not part of the study load for Veterans’ Administration Benefits or eligibility purposes.

The student’s academic record will be clearly annotated to reflect that credit was earned by examination.

Units for which credit is granted pursuant to the provisions of this section shall not be counted in determining the 12 semester hours of credit in residence required for an associate degree.

Credit for College-Level Examination Program (CLEP)
A maximum of 30 units may be granted for all types of credit by examination. This includes Advanced Placement, CLEP, credit for military training and credit by exam taken at Riverside Community College District. Credit is not allowed if coursework in the subject area has been completed or AP credit has been previously granted. Credit granted for CLEP will not be posted on the student’s RCCD transcript and will not be used to meet IGETC or CSU General Education Breadth Requirements for Certification. Students planning to transfer should check the policy on CLEP in the catalog of the college to which they will transfer. To apply for CLEP credit the student must have completed 12 units in residency at Riverside Community College District. An official transcript is required. For further information, contact the Counseling office.

**CLEP GENERAL EXAM**

<table>
<thead>
<tr>
<th>Examination</th>
<th>Passing Score</th>
<th>Credit Granted</th>
<th>General Ed. Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>50</td>
<td>4 + 4</td>
<td>English 1A and Elective</td>
</tr>
<tr>
<td>Humanities</td>
<td>50</td>
<td>3 + 3</td>
<td>Arts and Humanities</td>
</tr>
<tr>
<td>Mathematics</td>
<td>50</td>
<td>3 + 3</td>
<td>Math 25 and Elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Granted</th>
<th>General Ed. Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Sciences</td>
<td>50</td>
<td>3 + 3</td>
</tr>
<tr>
<td>Social Sciences and History</td>
<td>50</td>
<td>3 + 3</td>
</tr>
</tbody>
</table>

**SUBJECT EXAMS**

**Composition and Literature**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Granted</th>
<th>General Ed. Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Lit</td>
<td>50</td>
<td>English Literature Elective</td>
</tr>
<tr>
<td>Analysis and Interpretation of Literature</td>
<td>50</td>
<td>English Literature Elective</td>
</tr>
<tr>
<td>English Literature</td>
<td>50</td>
<td>English Literature Elective</td>
</tr>
<tr>
<td>Freshman College Composition</td>
<td>50</td>
<td>English 1A</td>
</tr>
</tbody>
</table>

**Foreign Languages**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Granted</th>
<th>General Ed. Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>College French Level 1</td>
<td>50</td>
<td>French 1 and French 2</td>
</tr>
<tr>
<td>College German Level 1</td>
<td>44</td>
<td>German 1 and German 2</td>
</tr>
<tr>
<td>College Spanish Level 1</td>
<td>50</td>
<td>Spanish 1 and Spanish 2</td>
</tr>
<tr>
<td>College Spanish Level 2</td>
<td>63</td>
<td>Spanish 3 and Spanish 4</td>
</tr>
</tbody>
</table>

**Social Sciences and History**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Granted</th>
<th>General Ed. Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>50</td>
<td>Political Science 1</td>
</tr>
<tr>
<td>American History I</td>
<td>50</td>
<td>History 6</td>
</tr>
<tr>
<td>Early Colonizations to 1877</td>
<td>50</td>
<td>History 7</td>
</tr>
<tr>
<td>American History II</td>
<td>50</td>
<td>History 7</td>
</tr>
<tr>
<td>Introduction to Educational Psychology</td>
<td>50</td>
<td>Psychology Elective</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>50</td>
<td>Economics 7</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>50</td>
<td>Economics 8</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>50</td>
<td>Psychology 1</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>50</td>
<td>Sociology 1</td>
</tr>
<tr>
<td>Western Civilization I</td>
<td>50</td>
<td>History 4</td>
</tr>
<tr>
<td>Ancient Near East to 1648</td>
<td>50</td>
<td>History 5</td>
</tr>
<tr>
<td>Western Civilization II</td>
<td>50</td>
<td>History 5</td>
</tr>
</tbody>
</table>

**Sciences and Math**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Granted</th>
<th>General Ed. Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus with Elementary Functions</td>
<td>50</td>
<td>Math 1A</td>
</tr>
<tr>
<td>College Algebra</td>
<td>50</td>
<td>Math 11</td>
</tr>
<tr>
<td>College Algebra - Trigonometry</td>
<td>50</td>
<td>Math Elective</td>
</tr>
<tr>
<td>General Biology</td>
<td>50</td>
<td>Biology 10 (no lab)</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>50</td>
<td>Chemistry 10 (no lab)</td>
</tr>
</tbody>
</table>

**Business**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Granted</th>
<th>General Ed. Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Systems and Computer Applications</td>
<td>50</td>
<td>CIS 1 or 1A</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>50</td>
<td>Management 44</td>
</tr>
<tr>
<td>Introductory Accounting</td>
<td>50</td>
<td>Accounting 10A</td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>50</td>
<td>Business Elective</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>50</td>
<td>Marketing 20</td>
</tr>
</tbody>
</table>

**Military Credit**

Two physical education units are awarded upon presentation of DD214, NOBE, or ID card for active military. Military tech schools are evaluated based on the recommendation of the ACE Guide. No credit is granted for MOS’s, Correspondence courses, Internships or
military specific courses. A maximum of 15 units may be awarded (two of which is the PE credit). CCAF, SMARTS, AARTS transcripts, DD214, and Certificates of Completion are used to evaluate military credit. No more than 30 units may be granted for CLEP, military training, AP, or credit by exam.

REPEAT POLICY

Course Repetition in a Non-Repeatable Course
Title 5 Sections 55040-55046, 55253 and 56029
Education Code Section 76224

A. Students may repeat courses under the following circumstances:

1. The student is repeating the course to alleviate substandard work which has been recorded on the student’s record.
   a. The term substandard is defined as course work for which the evaluative grading symbol “D,” “F,” or “NP” has been recorded.
   b. A student is limited to a maximum of five (5) allowable attempts per course unless he/she has received four (4) “W’s” or three (3) substandard grades in the course.
   c. A “Request for Course Repetition”* is required for any exceptions to “b” above.

2. The student’s previous grade is, at least in part, the result of extenuating circumstances.
   a. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. *

3. There has been a lapse of time (at least 5 years) since the student previously took the course. (See Significant Lapse of Time section)

4. The course outline of record has been officially changed and demonstrates significant curricular changes.*

5. Repetition of courses where substandard work has not been recorded shall be permitted when such repetition is necessary for a student to meet a legally mandated training requirement as a condition of continued paid or volunteer employment.

Such courses may be repeated for credit any number of times, regardless of whether or not substandard work was previously recorded, and the grade received each time shall be included for purposes of calculating the student’s grade point average.

B. The following conditions apply:

1. When course repetition occurs at RCCD, the permanent academic records will be annotated in such a manner that all work remains legible, ensuring a true and complete academic history. Courses repeated will be indicated on the permanent record by using an appropriate symbol. In all instances, the most recent grade earned will be used to compute an adjusted grade point average.

2. For courses taken or repeated at another accredited college or university, the most recent grade earned in the repeated will be used to compute an adjusted cumulative grade point average (GPA). The adjusted cumulative GPA will be used in determining eligibility for the cumulative GPA requirement for the Associate in Arts degree, Associate in Science degree and occupational certificates.

3. Students may repeat any course, which was taken at an accredited college or university and for which substandard academic performance was recorded.

4. The District will honor similar, prior course repetition action by other accredited colleges and universities.

Nothing in these Procedures can conflict with Education Code Section 76224 pertaining to the finality of grades assigned by instructors or with Title 5 or District procedures relating to retention and destruction of records.

* A Request for Course Repetition must be completed and can be obtained in Admissions office and the Dean of Instruction office at any college. Requests are approved or denied by the Dean of Instruction, or designee.

Significant Lapse of Time

Students may be permitted to repeat courses in which a “C” or better grade was earned where there was a significant lapse of time of five (5) or more years since the grade was obtained.

Students are required to repeat courses in which a “C” or better grade was earned where there was a significant lapse of time since the grade was obtained if:

• The District has established a recency prerequisite for a course or program; or
• An institution of higher education to which a student wishes to transfer has established a recency requirement that the student cannot satisfy without repeating the course.

When a student needs to repeat an activity course due to a significant lapse of time, each repetition attempt will be counted toward the established repetition limits. However, if a student has already exhausted the number of permitted repetitions, then an additional repetition due to significant lapse of time may be permitted or required by the District.

When a course is repeated due to a significant lapse of time, the District will disregard the previous grade and credit when computing a student’s grade point average.

Course Repetition in a Repeatable Course

Students may repeat courses in which a “C” or better grade was earned.

The following conditions apply to course repetition in repeatable courses:

1. Repeatable activity and performance classes may be taken up to a total of four (4) times.

2. Repeatable courses are identified in the college catalog.

3. All grades and units will be used in the computation of the grade point average and earned units, with the following exceptions:
   a. When a repeatable course is taken and a substandard grade earned, the course may be taken one time with
the most recent grade used in the computation of the grade point average.

b. Grades from other repeats will be used in the computation of the grade point average.

Students are allowed to repeat a course without petition when repetition is necessary to enable that student to meet a legally mandated training requirement as a condition of volunteer or paid employment. Students can repeat such courses any number of times, even if they received a grade of “C” or better; however, the grade received by the student each time will be included in calculations of the student’s grade point average.

Students may repeat activity courses that have been designated as activity courses and where it is found that the course content differs each time it is offered to enhance the skills and proficiencies of the student. Examples of activity courses include physical education, music, fine arts, theater, and dance. Absent substandard academic work, courses may not be repeated for more than three times.

Students with disabilities can repeat a special class for students with disabilities any number of times when an individualized determination verifies that such repetition is required as a disability-related accommodation.

Students are allowed to repeat a cooperative work experience course if a college only offers one course in cooperative work experience. Where only one work experience course is offered, students may be permitted to repeat this course any number of times as long as they do not exceed the limits on the number of units of cooperative work experience set forth in Title 5, Section 55253(a).

After a student has attempted a course four (4) times and in instances where a student is permitted to repeat a course any number of times, the student will be required to register for the course, in person, at the Admissions and Records office of any campus.

ACADEMIC RENEWAL

Academic Renewal allows a student who experienced academic difficulties during earlier attendance to have grades for a particular period of time included from the calculation of the RCCD grade point average. All courses and grades remain on the student’s permanent academic record. Petition forms are available online at http://www.rcc.edu/services/admissions/forms.cfm. The policies are as follows:

1. A student may request academic renewal for not more than two terms (fall, winter, spring, summer) of grades. A maximum of 24 units of substandard grades and credits, which are not reflective of a student’s present ability and level of performance, will be disregarded.

2. At least two semesters of college work (24 units) with a grade point average of 2.0 must have been completed at any accredited college or university subsequent to the two terms to be disregarded in calculating the grade point average obtained at Riverside Community College District. If using coursework from another college or university, the student must submit an official transcript from that institution to be submitted with the academic renewal petition.

3. If and when the petition is granted, the student’s permanent record will be annotated so that it is readily evident to all users of the record that no substandard units for work taken during the alleviated term(s) will apply toward graduation or any other unit commitment. However, all work will remain legible on the permanent record to ensure a true and complete academic history.

4. A student may be granted academic renewal only once.

Academic renewal procedures shall not conflict with the District’s obligation to retain and destroy records or with the instructor’s ability to determine a student’s final grade.

Course Prerequisites and Corequisites

All course prerequisites and corequisites will be enforced. This includes both required prerequisite courses as well as required assessment preparation levels. The Accuplacer assessment test, in conjunction with multiple measures, is used to generate placement levels in English, Math, and Reading. The PTESL (Proficiency Test in English as a Second Language) is used to generate placement levels in ESL. All placement tests taken prior to July 1, 2001 are no longer valid.

Students who have not satisfactorily completed a prerequisite for a course will be denied admission to that course. A grade of “C” or better is required for satisfactory completion of a course which is a prerequisite to a subsequent course.

If prerequisites or corequisites were met by completing courses at another college or university, students must request that the official transcript(s) be sent to the Riverside Community College Admissions and Records Office and request a prerequisite validation of the appropriate course(s) to validate the course that will meet RCCD requirements. Prerequisite validation request forms may be obtained from the Counseling department in the César E. Chávez Admissions and Counseling Building at the City college, and the Student Services offices at the Moreno Valley and Norco colleges. For information on challenge procedures, see page 8. Forms are also available online at www.rcc.edu.

Students must initiate this process well in advance of the semester in which they plan to register. Students will be informed of the results of the evaluation in a timely manner prior to the term in which they plan to enroll.
Section IV

REQUIREMENTS FOR COLLEGE TRANSFER
University of California (UC)
UC Website: www.ucop.edu/pathways
- UC, Berkeley
- UC, Davis
- UC, Irvine
- UC, Los Angeles
- UC, Merced
- UC, Riverside
- UC, San Diego
- UC, San Francisco
- UC, Santa Barbara
- UC, Santa Cruz

California State University (CSU)
CSU Website: www.csu.mentor.edu
- CSU, Bakersfield
- CSU, Channel Islands
- CSU, Chico
- CSU, Dominguez Hills
- CSU, East Bay
- CSU, Fresno
- CSU, Fullerton
- CSU, Long Beach
- CSU, Los Angeles
- CA Maritime Academy
- CSU, Monterey Bay
- CSU, Northridge
- CSU, Sacramento
- CSU, San Bernardino
- CSU, San Marcos
- CSU, Sonoma
- CSU, Stanislaus
- Humboldt State University
- San Diego State University
- San Francisco State University
- San Jose State University
REQUIREMENTS FOR COLLEGE TRANSFER

GRADUATION REQUIREMENTS

Information about transfer is available in the Transfer/Career Center located in the Admissions and Counseling building. Most transfer institutions have a unit, subject and scholarship (GPA) requirement. Although completion of all general education (GE) is not an admissions requirement, it is advisable that GE courses be completed prior to transfer. Students pursuing high unit majors such as Engineering, Computer Science, Physical or Life Sciences, should seek the advice of a counselor prior to selecting general education course work.

REQUIREMENTS FOR ADMISSION TO THE UNIVERSITY OF CALIFORNIA

Applying to transfer: To be eligible to apply for transfer as a junior, students must have completed at least 60 units of UC-transferable credit and meet specific admission requirements. In most cases, students may transfer up to 70 semester units of credit from a community college.

At most UC campuses admission is competitive and a grade point average higher than the minimum 2.4 is required.

Students who have earned fewer than 60 semester units of transferable college work will be admitted to the University of California on the basis of their high school records.

A student who was eligible to enter the University of California directly from high school must maintain a “C” average in all work taken in a community college.

Students with High School Deficiencies

Students who met the Scholarship Requirement but did not satisfy the Subject Requirement must take transferable college courses in the subjects they are missing, earn a grade of C or better in each of these required courses, and earn an overall C (2.0) average in all transferable college coursework to be eligible to transfer.

Students who were not eligible for admission to the University when they graduated from high school because they did not meet the Scholarship Requirement must:

A. Complete 60 semester units of transferable college credit with a grade point average of at least 2.4, and

B. Complete a course pattern requirement to include:

1. Two transferable college courses (3 semester units each) in English Composition; and

2. One transferable college course in mathematical concepts and quantitative reasoning; and

3. Four transferable college courses (3 semester units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, the physical and biological sciences.

(Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC will satisfy this requirement.)

General Education Breadth Requirements for a Degree from the University of California (UC)

Students may fulfill their lower-division requirements by completing either the individual U.C. Campus general education pattern or the Intersegmental General Education Transfer Curriculum (IGETC). In order to receive full credit for general education completed at Riverside Community College District, the IGETC must be certified and completed in its entirety. Once you have transferred to a UC or CSU, you may not return to RCCD to complete additional IGETC requirements nor can you use courses taken at the transfer institution. Please see your counselor to determine which pattern is more appropriate for you and for information regarding certification.

Copies of the breadth requirements for each University of California campus and the Intersegmental General Education Transfer Curriculum (IGETC) are available in the Transfer/Career Center.

CERTIFICATE OF ACHIEVEMENT IN CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION (CSUGE) 2009-2010

Students transferring to one of the California State University campuses can complete the SCU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC). Please see a counselor to determine which pattern is more appropriate for your educational goal.

The California State University system requires that 48 semester units of general education must be completed to be eligible for a bachelor’s degree. Of these 48 units, 9 units must be completed in upper division (junior and senior years) and up to 39 units may be completed in lower division (freshman and sophomore years). Students may complete these general education units at Riverside Community College District for transfer and it is to the student’s advantage to have these units of general education CERTIFIED. Certification is a legal agreement the California State University system and the community colleges in California to assure that SCU general education requirements met at Riverside Community College District satisfy the LOWER DIVISION general education requirement at all California State Universities. Each campus may have a slightly different program. Failure to complete FULL CERTIFICATION will cause courses to be reviewed differently at each campus.

Report any problems encountered with certification of general education for transfer to the counseling department at the Moreno Valley, Norco, or Riverside college. Courses which can be certified as general education for transfer to California State Universities are listed below. These courses are transferable and are considered baccalaureate level.
A. English Language Communication and Critical Thinking (min. 9 units) *Must be completed prior to transfer!
Select one course from each area. Grades of ‘C’ or better are required.

1. Oral Communication: Speech 1 or 1H, 6, 9 or 9H
2. Written Communication: English 1A or 1AH
3. Critical Thinking: English 1B or 1BH; Philosophy 11; Speech 2, 3A, 5

B. Scientific Inquiry and Quantitative Reasoning (min. 12 units) *Math must be completed prior to transfer!
Select one course from areas 1, 2, and 4. At least one of the science courses must have a lab—see underlined courses.

1. Physical Universe: Astronomy 1A; Chemistry 1A or 1AH, 1B or 1BH, 2A, 2B, 3, 10, 12A, 12B; Geography, 1/1L, 1H/1L, 1H; Geology 1, 1/1L, 1B, 2, 3; Oceanography 1, 1/1L; Physical Science 1, 5; Physics 2A, 2B, 4A, 10, 10/11
   - 3-4
2. Life Science: Anatomy and Physiology 2A, 2B, 10; Anthropology 1; Biology 1, 2A, 2B, 3, 5, 6, 7, 8, 9, 10, 11, 12, 17, 34, 36; Microbiology 1; Psychology 2
   - 3-4
3. Laboratory Activity: This requirement may be met by completion of any lab course listed above in areas B-1 or B-2. All underlined courses will meet this requirement.
4. Mathematics/Quantitative Reasoning (grade of ‘C’ or better is required): Math 1A, 1B, 4, 5, 10, 11, 12 or 12H, 25, 36
   - 3

C. Arts and Humanities (min. 9 units)
Select 3 courses, at least one course from each area:

1. Arts: Architecture 35, 36; Art 1, 2, 5, 6 or 6H, 7, 8, 9, 10, 12; Dance 6; Film Studies 1, 2, 3, 4, 5; Film, Television and Video 65; Music 6, 19, 20, 21, 22, 25, 26, 89; Speech 11; Theater Arts 3, 29
   - 9
2. Humanities: American Sign Language 1, 2, 3, 4, 5; Arabic 1, 2, 3, 8, 11; Chinese 1, 2, 11; English 1B or 1BH, 6, 7, 8, 9, 11, 12, 14, 15, 16, 18, 21, 22, 23, 25, 26, 30, 35, 40, 41, 44, 45, 48; Film Studies 5, 6, 7, 8; Film, Television and Video 12; French 1, 2, 3, 4, 8, 11; German 1, 2, 3, 4, 11; Greek 1, 2; History 1, 2, 4, 5, 6 or 6H, 7, 8, 9, 11, 12, 14, 15, 19, 21, 22, 23, 25, 26, 28, 29, 30, 31, 34, 35; Humanities 3, 4 or 4H, 5 or 5H, 8, 9, 10 or 10H, 11, 16, 18, 23, 35; Italian 1, 2, 3, 11; Japanese 1, 2, 3, 4, 11; Korean 1, 2, 11; Latin 1, 2; Military Science 1, 2; Philosophy 10 or 10H, 12, 13, 14, 15, 16, 19, 20, 21, 22, 33, 35; Portuguese 1, 2; Russian 1, 2, 3, 11; Spanish 1 or 1H, 1A, 1B, 2 or 2H, 3, 3N, 4, 8, 11, 12;
   - 9

D. Social Sciences (min. 9 units)
Select at least one course from three different areas:

1. Anthropology and Archeology: Anthropology 2, 3, 5, 6, 7, 8, 21
2. Economics: Economics 4, 5, 6, 7 or 7H, 8; Political Science 6
3. Ethnic Studies: Anthropology 4; History 14, 15, 28, 29, 30, 31; Sociology 10, 35
4. Gender Studies: History 34; Sociology 15; Speech Communication 13
5. Geography: Geography 2, 3, 4, 6
6. History: History 1, 2, 4, 5, 6* or 6H*, 7* or 7H*, 8, 9, 11, 12, 19, 21, 22, 23, 25, 26, 35, Military Science 1, 2; Chemistry/Physical Science 17
7. Interdisciplinary Social or Behavioral Science: Early Childhood Education 20; Film, Television and Video 41; Speech 9 or 9H, 12
8. Political Science, Government and Legal Institutions: Political Science *1 or *1H,2 or 2H, 3, 4 or 4H, 5, 6, 7ABCD, 8, 10ABC, 11, 12, 13
9. Psychology: Psychology 1, 9, 33, 35
10. Sociology and Criminology: Sociology 1, 2, 3, 12, 17, 20, 45, 49, 50

COURSES DESIGNATED WITH AN ASTERISK (*) MAY ALSO BE USED TO SATISFY THE U.S. HISTORY, CONSTITUTION AND GOVERNMENT REQUIREMENT.

E. Lifelong Learning and Self-Development (min. 3 units)
Select one course from:

- Biology 30; Early Childhood Education 20; Guidance 47; Health Science 1; Physical Education 4, 35, 36;
- Psychology 9, 33; Sociology 12

3

United States History, Constitution and Government (6 units)
Although this is not a part of the general education requirements, all students must complete coursework in U.S. History, Constitution and Government. History 6 or 6H or 7 or 7H may also be used to partially fulfill Area C or D. Political Science 1 or 1H may be used to partially fulfill Area D.

1. U.S. History (3 units)
   - History 6 or 6H or 7 or 7H or Humanities 16
2. Constitution and Government (3 units)
   - Political Science 1 or 1H

NOTE: Transfer students are required to complete both the general education and lower division major requirements. Make an appointment with your counselor to complete a Student Educational Plan.

Students planning to transfer to Cal Poly Pomona or Cal Poly San Luis Obispo have specific general education requirements which must be taken, based upon their major. See your counselor to ensure proper academic planning.
CERTIFICATE OF ACHIEVEMENT IN INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) 2010-2011

If you choose to follow IGETC, you must complete it before you transfer; otherwise you will be required to satisfy the specific lower division general education requirements of the university or college of transfer. Completion of the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University (CSU) or University of California (UC) system without the need to take additional lower-division general education courses. Transfer students will receive IGETC certification after completing all the subject areas below for a total of 34 units with a min. “C” grade or better.

IGETC certification is valid for community college students only. Those who have already transferred to the CSU/UC systems may not return to RCC to complete IGETC requirements.

See your counselor for courses required in your major. The UC System will allow IGETC courses to also count toward major requirements. CSU campus limitations on double-counting of general education courses toward major preparation are not changed by the IGETC. Courses which can be certified as general education for transfer to the Universities of California or the California State Universities are listed below. These courses are transferable and are considered baccalaureate level.

1. **English Communication (CSU 3 courses required; one from each group)**

   (UC 2 courses required; one from group a and one from group b)

   - a. English Composition: English 1A or 1AH
   - b. Critical Thinking – English Composition: English 1B (must be taken Fall ’93 or later) or 1BH
   - c. Oral Communication: Speech 1 or 1H, 6, 9, 9H (CSU requirement only)

   **Units**

   6-9

2. **Mathematical Concepts And Quantitative Reasoning**

   Math **1A, 1B, 1C, 2, 3, 4, **5, **10, **11, 12, 12H, 25

   **Units**

   3

3. **Arts And Humanities**

   (3 courses required with at least one course from the Arts and one from the Humanities.)

   - a. Arts: Architecture 35, 36; Arabic 11; Art 1, 2, 5, 6 or 6H, 7, 8, 9, 10, 12; Chinese 11; Dance 6; Film Studies 1, 2, 3, 4, 5; French 11; German 11; Italian 11; Japanese 11; Korean 11; Music 3, 4, 5, 6, 19, 20, 21, 22, 25, 26, 89; Russian 11; Theater Arts 3, 29
   - b. Humanities: American Sign Language 3; Arabic 2, 3, 8; Chinese 2; English 6, 7, 8, 9, 14, 15, 18, 21, 22, 23, 25, 26, 35, 40, 41, 44, 45, 48; Film Studies 6, 7, 8; French 2, 3, 4, 8; German 2, 3, 4; Greek 2; History 1*, 2*, 4*, 5*, 6* or 6H*, 7* or 7H*, 8*, 9*, 11*, 12*, 14*, 15*, 19*, 21*, 22*, 23*, 25*, 26*, 28*, 29*, 30*, 31*, 34*, 35*; Humanities 4 or 4H, 5 or 5H, 8, 9, 10 or 10H, 11, 16, 18, 23, 35; Italian 2, 3; Japanese 2, 3, 4; Korean 2; Latin 2; Military Science 1, 2; Philosophy 10 or 10H, 12, 13, 14, 19, 20, 21, 22, 33, 35; Portuguese 2; Russian 2, 3; Spanish 2 or 2H, 3, 3N, 4, 8, 11, 12; Speech 12

   **Units**

   9

4. **Social And Behavioral Sciences**

   Choose three courses from at least two academic disciplines.

   Anthropology 1*, 2, 3, 4, 5, 6, 7, 8, 21; Chemistry 17; Early Childhood Education 20; Economics 4, 5, 6, 7, 7H, 8; Geography 2, 3, 4, 6; History 1*, 2*, 4*, 5*, 6* or 6H*, 7* or 7H*, 8*, 9*, 11*, 12*, 14*, 15*, 19*, 21*, 22*, 23*, 25*, 26*, 28*, 29*, 30*, 31*, 34*, 35*; Military Science 1, 2; Physical Science 17; Political Science 1 or 1H, 2 or 2H, 3, 4 or 4H, 5, 6, 11, 13; Psychology 1, 2*, 9, 33, 35; Sociology 1, 2, 3, 10, 12, 15, 17, 20, 35, 49, 50; Speech 12, 13

   **Units**

   9

5. **Physical And Biological Sciences**

   Choose at least one Physical Science and one Biological Science course. One of the courses must include a lab—see underlined courses.

   a. Physical Science: Astronomy 1A, 1B; Chemistry **1A, **1AH, **1B, **1BH, **2A, **2B, **3, **10, **12A, **12B; Geography 1, 1H, 1/1L, 1H/1L; Geology 1, 1H, 1/1L, 3; Oceanography 1, 1/1L; Physical Science **1, 5; Physics **2A, **2B, **4A, **4B, **4C, **4D, **10, **10/11
   - b. Biological Science: Anatomy and Physiology 2A, 2B; Anthropology 1*, Biology 1, 2A, 2B, 3, 5, 6, 7, **8, 9, **10, **11, **12, **17, **30, **34, **36; Microbiology 1; Psychology 2*

   **Units**

   7

6. **Language Other Than English (one course - UC requirement only)**

   a. American Sign Language 1, 2, 3, 4; Arabic 1, 2, 3; Chinese 1, 2; French 1, 2, 3, 4; German 1, 2, 3, 4; Greek 1, 2; Italian 1, 2, 3; Japanese 1, 2, 3, 4; Korean 1, 2; Latin 1, 2; Portuguese 1, 2; Russian 1, 2, 3; Spanish 1 or 1H, 1B, 2 or 2H, 3, 3N, 4

   **Units**

   0-5

   OR

   b. Proficiency equivalent to two years of high school in the same language (Level 1 foreign language courses at RCCD are equivalent to two years of high school study, completed with a “C” or better, in the same language.)

   **Units**

   0-5

CSU Graduation Requirement In U.S. History, Constitution, And American Ideals

(not part of IGETC; recommend completion before transferring)

Complete one course from area a and one from area b:

- a. History 6 or 6H or 7 or 7H or Humanities 16
- b. Political Science 1 or 1H

*Course may be listed in more than one area, but shall not be certified in more than one area.

**Indicates that transfer credit may be limited by either UC or CSU or both. Consult with a counselor for additional information.
NOTES:
1. Students should consult with Counselors to determine the most appropriate General Education patterns for their intended majors and transfer institutions.
2. To be eligible for IGETC certification a student must have completed most of the transfer units at one or more California community college(s).
3. Courses taken as preparation for a major will also satisfy the corresponding portion of the IGETC requirements.
4. Each course used to fulfill IGETC requirements must be completed with a minimum grade of “C” or better.
5. Advanced placement exams can be used to satisfy all areas of IGETC except for the critical thinking-English composition and oral communication requirements. IGETC policy is to accept a score of 3 or higher to clear one course.

REQUIREMENTS FOR ADMISSION TO INDEPENDENT CALIFORNIA COLLEGES AND UNIVERSITIES

California’s fully accredited independent colleges and universities provide a host of options at undergraduate, graduate and professional levels for students planning to continue their education beyond community colleges.

Some colleges and universities stipulate a certain number of completed units before considering students eligible for transfer. Others do not and will accept students at any time. The requirements are outlined in the respective college catalogs, available upon request from the college’s or university’s Office of Admissions.

As admission requirements vary campus to campus, it is necessary to meet with a counselor to implement your educational plan. Copies of breadth requirements and major requirements for some of the nearby independent colleges and universities are available in the Riverside Community College District Transfer/Career Centers.

The independent colleges and universities include:
- California Baptist University
- La Sierra University
- Loma Linda University
- Occidental College
- Pepperdine University
- Scripps College
- Stanford University
- University of La Verne
- University of the Pacific
- University of Redlands
- University of San Diego
- University of San Francisco
- University of Southern California
- Whittier College

TRANSFERABILITY OF COURSES

Questions regarding the transferability of courses should be referred to a college counselor. A listing of baccalaureate level courses that will transfer to the California State University System is available from any college counselor or in the Transfer/Career Centers. A list of baccalaureate courses acceptable for admission to the University of California is also available. In addition, courses acceptable for transfer to the UC and CSU institutions are indicated in the back of this catalog following the descriptive title of each course.

Most four-year colleges and universities will require transfer students to have six units (two semesters) of composition. English 1A or 1AH and 1B or 1BH at Riverside Community College District will meet this requirement.
Section V

CURRICULAR PATTERNS
TRANSFER PROGRAMS
Each institution of higher education has its own requirements for admission, majors, and general education. Students should see a counselor, on a regular basis, to determine the courses needed to prepare for transfer to CSU, UC, or any private/independent university.

Students who plan to transfer to UC must complete IGETC or a campus-specific general education pattern in addition to the lower-division major requirements required by the campus they wish to attend.

Students who want to transfer to CSU must complete the CSU General Education requirements in addition to 1) completion of the individual campus lower-division major requirements or in the near future, 2) completion of the Lower-Division Transfer Pattern (LDTP). The latter is designed for those students who have declared a major, but haven’t yet decided on a school of transfer. Completion of the LDTP will guarantee admission to the CSU campus of their choice. Please see below for information on both options and be sure to see a counselor to obtain an SEP (Student Educational Plan).

1) MAJOR REQUIREMENTS 2010-2011
The 2009-10 major sheets will be available in the Transfer Center. Note that the following majors are for specific colleges and universities. Requirements for the same major at other institutions may be different. These are merely a few samples of the many majors available and represent, for the most part, those of nearby colleges and universities. Additional information and revised major sheets are available in the Transfer/Career Centers. See www.assist.org for the complete articulation information.

In developing a program it should be remembered that in addition to the requirements in the major, each student should complete the general education breadth requirements for the college chosen. Breadth requirements for all branches of the UC, CSU, and various independent colleges are available in the Transfer/Career Centers. Proper planning normally should enable students to satisfy the general education-breadth requirements concurrently with the requirements for graduation form Riverside Community College District. See the associate degree requirements.

2) LOWER-DIVISION TRANSFER PATTERN (LDTP)
The Lower-Division Transfer Pattern (LDTP) project, sponsored by the California State University (CSU) and supported by the California Community Colleges, presents potential transfer students with the most direct path to a bachelor’s degree in the CSU system. The LDTP project provides a set of “road maps” for students to follow that will ensure appropriate academic preparation and that will decrease time to graduation once LDTP students enter the CSU. Students may enter into an LDTP agreement up to the time they have completed 45 transferable units. Students who elect to follow the LDTP option will receive the highest priority for admission to a CSU campus.

“Highest priority for admission” is defined as a written guarantee of admission to a particular CSU campus and major, and it goes into effect when both the student and the CSU campus ratify an LDTP agreement. The guarantee is subject both to satisfactory completion of the agreement requirements and to the campus’s ability to accommodate the student. Students will be asked to complete successfully a specified set of general education courses and major courses that will be common to all CSU campuses offering that major, and they will be asked to complete successfully an additional set of courses identified by the particular CSU campus named in the LDTP agreement. The coursework in the systemwide and campus-specific LDTP pattern will total at least 60 units, the number needed to transfer to CSU as an upper-division student. Through CSUMentor and ASSIST, students and counselors will be able to find road maps detailing coursework preparation by CSU campus and major.

2010-11 MAJOR REQUIREMENTS

ACCOUNTING
CSU SAN BERNARDINO
Accounting 1A, 1B; Business Administration 18A; Economics 7 or 7H, 8; Mathematics 5, 10, 11 or 1A; Mathematics 12 or 12H; Computer Information Systems 1A, 5, 17A, 20, 25

CAL POLY POMONA
Accounting 1A, 1B or 38; Business Administration 18B; Computer Information Systems 1A or 3; Economics 7, 8; English 1B; Mathematics 12, 5.

ADMINISTRATION OF JUSTICE/CRIMINAL JUSTICE
CSU LONG BEACH
Administration of Justice 1, Philosophy 32; Political Science 1; Psychology 1; Sociology 1

CSU SAN BERNARDINO
Administration of Justice 1, 3, 13; Mathematics 11 or 25

SAN DIEGO STATE UNIVERSITY
Political Science 1; Sociology 1, 2; Math 12

ANTHROPOLOGY
CSU FULLERTON
Anthropology 1, 2, and 3 or 6

UC RIVERSIDE
Anthropology 1, 2, and 3 or 6; English 16

CSU SAN BERNARDINO
Anthropology 1, 2

ART
CSU FULLERTON
Studio Emphasis: Art 1, 2, 17, 22 or 23, 24, 26, 40; Choose two from Art 15, 16, 20, 21, 30, 41; Photography 8, 9

UC RIVERSIDE
General Art Emphasis: Art 1, 2 or 10 and 17, 26

CSU SAN BERNARDINO
Art History Option: Art 1, 2, 5, 17, 22, 24, 36; Foreign Language 1, 2

BIOLOGY
CSU FULLERTON
Biology 11, 12; Chemistry 1AB, 12AB; Mathematics 1A or 5; Physics 2AB

UC RIVERSIDE
Biology 11, 12; Chemistry 1A or 1AH, 1B or 1BH, 12AB; Mathematics 1AB; Physics 4ABC or 2AB

CSU SAN BERNARDINO
Biology 2AB, 5, 11 or 11, 12; Chemistry 1A or 1AH, 1B or 1BH, 12AB; Mathematics 5 or 1A; Physics 2AB or 4ABC.

BOTANY
CAL POLY POMONA
Biology 11, 12; Chemistry 1AB, 12A; Mathematics 5, 12; Physics 2AB; English 1B
UC RIVERSIDE
Biology 11, 12; Chemistry 1A or 1AH, 1B or 1BH, 12AB; Mathematics 1AB; Physics 2AB or 4ABC

BUSINESS ADMINISTRATION
CSU FULLERTON
Mathematics 1A or 5; Economics 7, 8; Accounting 1B; Business 18A
CAL POLY POMONA
Economics 7, 8; Mathematics 5, 12; Business Administration 18B; Accounting 1A, 1B or 38; Computer Information Systems 1A or 3
UC RIVERSIDE
Accounting 1AB; Business Administration 10; Computer Information Systems 1A; Economics 7, 8; Mathematics 1A, or 5, 12 or 12H
CSU SAN BERNARDINO
Accounting 1A, 1B; Business Administration 18A; Computer Information Systems 1A; Economics 7 or 7H, 8; Mathematics 12 or 12H and 10 or 11 or 5 or 1A

CHEMISTRY
CSU FULLERTON
Chemistry 1AB, 1AH, or 1BH; 12AB; Mathematics 1ABC, 2, 3; Physics 4ABCD
CAL POLY POMONA
Biology 11; Chemistry 1AB, 12A, 12B; Computer Information Systems 5; Mathematics 1AB, 2; Physics 4ABCD
UC RIVERSIDE
Chemistry 1A or1AH, 1B or 1BH, 12AB; Mathematics 1ABC, 2; Physics 4ABCD
CSU SAN BERNARDINO
Biology 11; Chemistry 1A or 1AH, 1B or 1BH, 12AB; Mathematics 1ABC, 2, 3; Physics 4ABCD

COMMUNICATIONS
CAL POLY POMONA
Applied Digital Media 1; Journalism 7; Journalism 12 or Photography 12; Mathematics 12; Photography 8; Speech Communication 1, 3A, 12
CSU SAN BERNARDINO
Film, Television and Video 44, Journalism 2, 20; Speech Communications 6, 9 or 9H
CSU FULLERTON
Print Journalism 1, 2, 7; Journalism 45 or Film, Television and Video 45

COMPUTER INFORMATION SYSTEMS
CAL POLY POMONA
Computer Information Systems 1A or 3, Computer Applications and Office Technology 3, 17A, 17B or 18A; Economics 7, 8; Mathematics 12; Business Administration 18B; Accounting 1A, 1B or 38

COMPUTER SCIENCE
CAL POLY POMONA
Biology 1; Computer Information Systems 11 and 17B, 17A and 18C or 18A and 18C; Mathematics 1ABC, 3; Physics 4BC

CSU SAN BERNARDINO
Biology 1 or 11; Computer Information Systems 5, 17A; Mathematics 1AB; Physics 4ABC; one laboratory course from Biology, Chemistry, Geology or Physics

DENTAL HYGIENE
USC
Biology 11; Anatomy and Physiology 2A, 2B; Chemistry 1AB, 1A or 1B or 1AH or 1BH; English 1AB or 1AH or 1BH; Microbiology 1; Physical Education 4, Psychology 1; Sociology 1; Speech Communications 1
LOMA LINDA UNIVERSITY
English 1AB or 1AH or 1BH; Speech Communications 1 or 9; Microbiology 1; Anatomy and Physiology 2AB; Chemistry 2AB; Sociology 1; Anthropology/Economics/Geography/Political Science/Psychology (one course); Physical Education 4; Anthropology 2; Choose 14 units from: Art (lecture only); Foreign Language; History 1, 2, 4, 5; Literature; Philosophy; One transferable Mathematics class; Psychology 1

ECONOMICS
CSU FULLERTON
Mathematics 5 or 1A; Accounting 1A or Mathematics 1B; Economics 7, 8
CAL POLY POMONA
Economics 7, 8; Mathematics 1A, 1B; English 1B; Accounting 1A; Electronics/Engineering 27
UC RIVERSIDE
Economics 7 or 7H, 8; Mathematics 1A, 1B
CSU SAN BERNARDINO
Economics 7 or 7H, 8; Mathematics 5 or 1A, 10, 11; Mathematics 12 or 12H

EDUCATION-TEACHING
ELEMENTARY OR SECONDARY
Students desiring to teach in California public schools (K-12) must pursue a pattern of course work at RCCD suitable for transfer to a public or private university. Once a successful transfer has been made, students will follow a program leading to completion of baccalaureate degree requirements and preliminary teaching credential requirements defined by the California Commission on Teacher Credentialing. Information concerning the transfer requirements of various universities is available from the Counseling/Transfer Centers and the office of Teacher Preparation and Education Program Counselor.

Historically, RCC students interested in teaching careers have been able to complete all appropriate lower division liberal arts courses while enrolled here. Beginning in 2002 it is also possible for teacher education students to complete certain lower division courses in Education that transfer into the multiple-subject (Elementary) teacher education programs of nearby universities. Currently, a full articulation agreement exists with La Sierra University, Cal Baptist University, UCR, CSUSB, and many other institutions. Students are urged to check with their program adviser in the Counseling/Transfer Center or the counselor from the office of Teacher Preparation and Education Programs for the latest information.
COMMUNITY COLLEGE

The student planning to teach at the community college level must complete at least a Master’s degree in a subject matter area normally taught in the community college.

VOCATIONAL

For teaching in occupational areas, a combination of work experience in the field (five to six years) and education is needed.

ENGINEERING-MECHANICAL LOWER DIVISION

ENGINEERING CURRICULUM

The Statewide Engineering Liaison Council encourages engineering transfer students to complete the prescribed Engineering Core and to obtain verification of that at the community college in order to assure transferability as a junior to any UC, CSU, or selected private four-year colleges and/or universities in the state.

The Engineering Core requirements, Riverside Community College’s equivalent courses are: Mathematics 1A, 1B, 1C, 2; Chemistry 1A, 1B; Physics 4A, 4B, 4C; Engineering 17, 22, 35, 45; English 1A; Electives (8-12 units): Engineering 1A, 33; Machine Shop 51; Mathematics 4, 12; Chemistry 12A; Biology 1; Electronics 37.

To establish all necessary prerequisites to upper division courses, the Statewide Engineering Liaison Council indicates that it is imperative for engineering transfer students to complete their technical (math, science, and engineering) course work and English 1A prior to transferring.

The requirements for the different fields of engineering may vary slightly from the outline listed above. All students should select classes to fulfill the core and/or general education requirements before transferring.

CSU FULLERTON

Chemistry 1A; Biology 1; Engineering 17, 22, 35; Mathematics 1ABC, 2, 3; Physics 4AB

UC RIVERSIDE

Mechanical Chemistry 1A or 1AH, 1B or 1BH; Engineering 17, 22, 30, 35; Mathematics 1ABC, 2; Physics 4ABC; Biology 11

CAL POLY POMONA

Electrical Chemistry 1A; Mathematics 1ABC, 2, 3; Physics 4ABC

ENGLISH

(English 1AB or equivalency test required at all colleges listed.)

CSU FULLERTON

English 1B, 6, 7, 14, 15 (choose 2)

CAL POLY POMONA

English 6 or 7, 14 or 15, 40 or 41; Speech Communications 3A; Choose from French 3; German 3; Japanese 4; Spanish 3, 3N, 4, 8

CSU SAN BERNARDINO

English 6, 7

ENVIRONMENTAL SCIENCE

UC RIVERSIDE

Natural Science Option: Biology 8, 11, 12, 36; Chemistry 1A or 1AH, 1B or 1BH, 12AB; Economics 5; Geology 1/1L or Geography 1/1L; Mathematics 1AB; Physics 2AB

CSU SAN BERNARDINO

Major is called Environmental Studies. Track A: Biology 1; Chemistry 2A; Three (3) courses from: Anthropology 1; Chemistry 2B; Geology 1/1L; Geography 1/1L; Physics 10/11 or 2A

FORESTRY

UC BERKELEY

Biology 12; Chemistry 1A or 1AH; Economics 7 or 7H, 8; English 1AB or 1AH or 1BH; Geology 1/1L; Mathematics 1A, 1B, 12

CSU HUMBOLDT

Biology 1, 5 or 11; Mathematics 1A or 5

GEOGRAPHY

CSU FULLERTON

Geography 1, 2, 3

CAL POLY POMONA

Geography 1, 2; Geographic Information Systems 1 or 5

CSU SAN BERNARDINO

Geography 1/1L or 1H/1L, 2

GEOLOGY

CSU LONG BEACH

Biology 1; Chemistry 1A, 1B; Geology 1/1L, 1B; Mathematics 1AB; Physics 4A, 4B

UC RIVERSIDE

Biology 1, 11, or 17; Chemistry 1A or 1AH, 1B or 1BH; Geology 1/1L, 1B; Mathematics 1AB; Physics 4ABC; Geography 1/1L or 1H/1L

HEALTH SCIENCE

CSU LONG BEACH

School Health Option: Anatomy and Physiology 2A; Biology 1; Chemistry 1A or 2A; Health Science 1; Physical Education 4; Psychology 1

CSU SAN BERNARDINO

Public Health Option: Anatomy and Physiology 2A, 2B; Chemistry 2A; Microbiology 1

SAN DIEGO STATE UNIVERSITY

Biology 1; Chemistry 2A or 3; Mathematics 12 or 12H; Psychology 1; Sociology 1; Anatomy and Physiology 2A, 2B

HISTORY

CSU FULLERTON

History 1, 2, 6 or 6H, 7 or 7H

CSU LONG BEACH

History electives (9 units) - choose from History 2, 4, 5, 6, 7

CAL POLY POMONA

History 1, 2, 6 or 6H, 7; Political Science 1

UC RIVERSIDE

History 1 or 2, 6 or 6H, 7 or 7H (if U.S. is primary area of concentration)

JOURNALISM

CSU FULLERTON

Journalism 1, 2, 7, 45

CSU LONG BEACH

Journalism 2, 7
Riverside Community College District • Norco College 2010-2011

**Curricular Patterns**

**KINESIOLOGY**

**CSU San Bernardino**
Anatomy and Physiology 2A, 2B; Biology 1

**Cal Poly Pomona**
Human Performance Track: Anatomy and Physiology 2AB; Mathematics 12; Biology 11; Physical Education 36

**LANDSCAPE ARCHITECTURE**

**Cal Poly Pomona**
Art 17; Chemistry 1A; Engineering 1A, 1B; Mathematics 36

**MATHEMATICS**

**Cal Poly Pomona**
Physics 4ABC; Mathematics 1ABC, 2, 3; CIS 5

**CSU San Bernardino**
Computer Information Systems 5, 17A or 17B; Mathematics 1ABC, 2, 7; Physics 4A

**MICROBIOLOGY**

**CSU Long Beach**
Biology 11, 12; Chemistry 1A, 1B; Mathematics 1A; Microbiology 1; Physics 2A, 2B or 4A, 4B

**Cal Poly Pomona**
Biology 11, 12; Chemistry 1AB, 12A, 12B; Microbiology 1; Physics 2AB; Computer Information Systems 1A or 3; Math 5; Health Science 1 or Physical Education 35 or Psychology 1 or 2; English 1B or 1BH

**MUSIC**

**CSU Fullerton**
Music 4, 5; four semesters Performance; four semesters Ensemble

**Cal Poly Pomona**
Music 4, 5, 6, 12, 32, 38 or 39, 43, 93

**UC Riverside**
Music 4, 6; Piano Proficiency

**NURSING—B.S. DEGREE**

**CSU Fullerton**
Anatomy and Physiology 2A, 2B; Chemistry 2A or 3 or 3A; Microbiology 1; Psychology 1; Sociology 1 or Anthropology 2

**CSU Long Beach**
Anatomy and Physiology 2A, 2B; Microbiology 1; Psychology 1; Sociology 1

**CSU San Bernardino**
Anatomy and Physiology 2AB; Chemistry 2A, 2B; English 1A; Mathematics 25, 1A, 5, 10 or 11; Microbiology 1; Psychology 9; Speech Communication 1 or 1H

**PHARMACY**

**UC San Francisco**
Anatomy and Physiology 2A, 2B; Biology 11, 12; Chemistry 1AB or 1AH or 1BH, 12AB; English 1AB or 1AH or 1BH; Mathematics 1A and 1B; Physics 2AB or 4AB; Speech Communication 1 or 1H, 2 or 3A; Economics 7 or 7H, or 8; Anthropology 2, Psychology 1 or Sociology 1

**USC**
Anatomy and Physiology 2A, 2B; Biology 11, 12; Chemistry 1AB, 12AB; Economics 7 or 8; English 1AB; Mathematics 1A; Microbiology 1; Psychology 2 or Sociology 1; Speech Communication 9; Physics 2AB or 4A, 4B; Mathematics 12.

**PHILOSOPHY**

**CSU Fullerton**
Philosophy 20; Choose two from Philosophy 10, 11, 32

**CSU Long Beach**
Philosophy 20, 21, 32 and 10 or 12

**UC Riverside**
Philosophy 11, 32

**PHYSICAL THERAPY**

**Loma Linda University (Master’s Level only)**
Biology 11, 12 or Anatomy and Physiology 2A, 2B; Chemistry 1A and 1B or Physics 10, 11 or Physics 2AB and Chemistry 2AB; Computer Information Systems 1A; English 1B; Health Science 1; Mathematics 12; Physical Education 4; Psychology 1, 9; Speech Communication 1 or 9.

**CSU Long Beach (Masters Level only)**
Anatomy and Physiology 2A; Biology 11, 12; Chemistry 1AB; Physics 2A, 2B; Psychology 1

**USC (Masters Level only)**
Anatomy and Physiology 2A, 2B; Biology 11, 12; Chemistry 1A, 1B; Mathematics 1A, 12; Microbiology 1; Physics 2A, 2B; Psychology 1; and one additional social science course

**PHYSICS**

**CSU Fullerton**
Chemistry 1AB; Mathematics 1ABC; Physics 4ABCD

**Cal Poly Pomona**
Biology 1; Chemistry 1AB; CIS 5; Mathematics 1ABC, 2; Physics 4ABCD

**UC Riverside**
Chemistry 1A or 1AH, 1B or 1BH; Mathematics 1ABC, 2; Physics 4ABCD

**CSU San Bernardino**
Chemistry 1A or 1AH, 1B or 1BH; CIS 5; Mathematics 1ABC, 3; Physics 4ABCD

**POLITICAL SCIENCE**

**CSU Fullerton**
Political Science 1 or 1H

**CSU Long Beach**
Political Science 1 or 1H; Any two Political Science electives

**Cal Poly Pomona**
Political Science 1 or 1H, 2 or 2H, 4 or 4H; Economics 7

**UC Riverside**
Political Science 1 or 1H, 2 or 2H, 4 or 4H, 11; Mathematics 12 or 12H

**CSU San Bernardino**
Political Science 1 or 1H, 4 or 4H
PRE-LAW
Admission to most law schools requires a Bachelor’s Degree from an accredited college or university. The major can be any academic discipline, but the student must have achieved a good grade point average. Undergraduate courses should provide an adequate foundation for broad culture: Anthropology, Economics, English, History, Mathematics and Logic, Philosophy, Political Science, Psychology, Science, Sociology, Speech and Debate.

PSYCHOLOGY
CAL POLY POMONA
Sociology 1, 2; Psychology 1, 2; Mathematics 12; English 1B or 1BH; Philosophy 11 or 32

CSU SAN BERNARDINO
Mathematics 12 or 12H; Psychology 1; Psychology 9 or Early Childhood Studies 20; Math 5, 10, 11, 25 or 1A

SOCIAL SCIENCES
CAL POLY POMONA
Anthropology 1; Economics 7 or 7H, 8; English 1B or 1BH; Geography 2; History 1, 2, 6 or 6H; Political Science 2 or 2H; Sociology 10

SOCIAL WORK
CSU LONG BEACH
Anthropology 2; Anatomy and Physiology 2A; Mathematics 12 or 12H; Psychology 1; Sociology 1

SAN DIEGO STATE UNIVERSITY
Biology 1 or 10; Economics 7 or 7H or 8; Health Science 1; Psychology 1; Sociology 1; Mathematics 12 or 12H; Foreign Language 3

SOCIOLOGY
CSU FULLERTON
Sociology 1

UC RIVERSIDE
Sociology 1, 49 and 6 units of Sociology electives

CSU SAN BERNARDINO
Sociology 1

THEATER ARTS
CSU SAN BERNARDINO
Theater Arts 25, 32, 33, 36, 44, 48; Choose one from Dance D22, D33, D38, D44

CAL POLY POMONA
Theater Arts 3, 33, 34 and 2, 4, 5 or 6; English 9

ZOOLOGY
CSU LONG BEACH
Chemistry 1AB; Biology 11, 12; Mathematics 1A, 1B or 4A, 4B; Geology 1/1L or Microbiology 1; Physics 2A, 2B

CAL POLY POMONA
Biology 2A, 2B, 11, 12; Chemistry 1AB, 12A; Mathematics 12; Physics 2AB

HIGH SCHOOL EXIT EXAM
GUI-801 Test for Success CAHSEE Preparation

WORKSHOP COURSES
Each discipline of the college has the option of developing workshop courses that are specifically designated to be experimental courses. (They are developed by faculty members in the discipline and receive curriculum committee approval prior to being offered.) Workshop courses cannot be used to satisfy specific graduation requirements; however, they may be used as elective credit for the Associate degree. Courses with this designation may be periodically found in the semester schedule of classes.

OPEN CAMPUS
The Open Campus is responsible for distributing Distance Education and Faculty Technology Training. The goal of the Distance Education programs of the Open Campus is to make learning available anytime, anywhere for students who find it difficult to meet on campus at scheduled class times. The Open Campus is truly a “campus without walls,” distributing courses through a variety of online-based technologies including the Internet and streaming media. Open Campus courses are academically equivalent to on-campus courses and fulfill RCCD General Education, elective, and/or major requirements, with many classes transferable to four-year institutions.* Some certificate programs offered at RCCD can be completed in a Distance Education format. For further information about Distance Education options, visit www.opencampus.com.

*Always consult an RCCD counselor to review your Student Education Plan before taking any class to be sure it meets your particular goals.

COOPERATIVE WORK EXPERIENCE EDUCATION
The purpose of the Cooperative Work Experience Education Program is to provide students with an opportunity to increase their overall knowledge of their jobs by relating classroom theory with the world of work, while exposing them to the concepts of human relations in their business and personal lives. There are two work experience programs: general and occupational.

AUTOMOTIVE INTERNSHIP
Auto 99 is an internship designed to allow students to work in automotive dealerships in conjunction with an experienced technician. This class reinforces theories, concepts and practical applications taught in manufacturer specific automotive classes at Riverside City College.

GENERAL WORK EXPERIENCE EDUCATION
This program provides career guidance, job information, human relations, and other similar services for employed students. These jobs do not have to be related to the student’s major. The job may be salaried or volunteer, but students must have a job before the beginning of the third week of class. The student earns 3 units per semester for 180-225 hours of volunteer or paid work experience, respectively, plus weekly attendance at a one hour lecture class. Students can take two (2) semesters of general work experience for a maximum of six (6) units. Veterans wishing to earn units and VA benefits must take occupational work experience.

OCCUPATIONAL WORK EXPERIENCE EDUCATION
Work Experience is a one hour per week class which allows students to earn up to 4 units per semester for experience gained through employment or volunteer service. Enroll in a general Work Experience section and you will be placed in your choice of one of the disciplines below.
Units Determination:
General Work Experience (not related to one of the occupational disciplines listed below) is 3 units only.

Occupational Work Experience (one of the disciplines shown below) varies from 1-4 units. For every one (1) unit of work experience credit students must complete 75 hours of paid work or 60 hours of volunteer work during the college semester. No more than 20 hours per week may be applied toward this work requirement. Below is a general guide to help students enroll in the appropriate number of units of work experience.

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<th>Hours Worked Per Week</th>
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<tr>
<td>20-40 (paid)</td>
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<tr>
<td>14-19 (paid)</td>
<td>up to 3 units</td>
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<td>9-13 (paid)</td>
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<tr>
<td>5-8 (paid)</td>
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Accounting
Administration of Justice
Air Conditioning
American Sign Language
Applied Digital Media
Architecture
Art
Auto Body
Auto Technology
Business Administration
Community Interpretation
Computer Applications and Office Technology
Computer Information Systems
Construction Technology
Cosmetology
Culinary Arts
Dental Hygiene
Dental Technology
Early Childhood Education
Education
Electronics
Engineering
Film, Television and Video
Fire Technology
Human Services
Journalism
Machine Shop
Management
Manufacturing
Marketing
Medical Assisting
Nursing
Paralegal Studies
Photography
Physical Education
Real Estate
Theater
Welding

HIGH SCHOOL COURSES

Foreign Languages
Two years of high school study in the same language with an earned grade of “C” or better for each course are equivalent to the first level of the same language at RCCD (for example, two years of Spanish in high school are equal to Spanish I at RCCD.)

Chemistry
Information regarding validation of high school chemistry courses for prerequisites can be found by calling the prerequisite hotline at (951) 222-8808 or on the web at http://www.rccd.edu/services/assessment/chemistry.cfm.

Articulated Courses
The Riverside Community College District (RCCD) and Secondary Education District articulation process provides a method by which college credit can be given for articulated high school and ROP courses, thereby creating a seamless transition from secondary to post-secondary education. Students wishing to apply for articulated credit should contact the Career and Technical Education office for information and forms at (951) 222-8963.

This list shows current articulation agreements by Secondary Education District with the RCCD course name shown in parenthesis. This listing is subject to change throughout the program year. Specific instructions on obtaining credit by articulation and to view a list of the most current articulation agreements please visit www.rccd.edu/edu/techprep.

ALVORD UNIFIED SCHOOL DISTRICT
Accounting Principles Level 111 and 1V (CAT/ACC 55)
Anatomy and Physiology (AMY 10)
Architectural Drawing (ARE 24)
Computer Aided Drafting and Design (ENE 30)
Computer Information Systems (CAT/CIS 3)
Computer Keyboarding (CAT 53)
Drafting 2 (ENE 21)
Word Processing (CAT 51)

CALIFORNIA SCHOOL FOR THE DEAF
Construction Technology 1-4 (CON 60)

CHINO VALLEY UNIFIED SCHOOL DISTRICT
American Sign Language 1 and 2 (AML 1)
American Sign Language 3 (AML 2)
American Sign Language 4H (AML 3)

COLTON JOINT UNIFIED SCHOOL DISTRICT
Keyboarding/Computer Literacy Advanced Keyboarding/Computer Literacy (CAT 50)

CORONA-NORCO UNIFIED SCHOOL DISTRICT
Architectural Design 1A and 1B (ARE 24 and 25)
Drafting Computer Aided Drafting 2A and 2B (ENE 42)
Design Manufacturing Technology 1A and 1B (MAN 52)
Electronics 1A and 1B (ELE 21)
Graphic Art 1A and 1B (ADM 1)
Human Anatomy and Physiology (AMY 10)
Introduction to Computers (CAT/CIS 93)
Intro. to Engineering and Architectural Design 1A and 1B (ENE 30 and 21)
Photography 1A and 1B (PHO 8)

COLTON REDLANDS YUCAIPA REGIONAL OCCUPATIONAL PROGRAM
Automotive General Service Technician (AUT 50)
Bookkeeping/Accounting Clerk Computerized (CAT/ACC 55)
Cisco Internetworking, Level 1 (CIS 26A)
Cisco Internetworking, Level 2 (CIS 26B)
Cisco Internetworking, Level 3 (CIS 26C)
Cisco Internetworking, Level 4 (CIS 26D)
Computer Aided Drafting (ENE 30)
Fundamental Webpage Design (CAT/CIS 3)
Graphic Design 1 and 2 (ADM 1)
Keyboarding (CAT 50)
Microsoft Office (CAT/CIS 3)
Welding Occupations (WEL 15)

HEMET UNIFIED SCHOOL DISTRICT
Auto Mechanics 1A and 1B (AUT 50)
**Curricular Patterns**

**Riverside Community College District • Norco College 2010-2011**

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**Jurupa Unified School District**

- Anatomy and Physiology (AMY 10)
- Automotive Theory 1 (AUT 50)
- Computer 1 (CAT/CIS 34A)
- Computer 2 (CAT/CIS 34B)
- Introduction to Business (BUS 10)
- Photography 1 (PHO 8)
- Photography 2 (PHO 9)
- Video Production (FTV 67)
- Web Design and Development (CIS 72A)

**Lake Elsinore Unified School District**

- Anatomy and Physiology (AMY 10)
- Automotive Theory 1 (AUT 50)
- Computer 1 (CAT/CIS 34A)
- Computer 2 (CAT/CIS 34B)
- Introduction to Business (BUS 10)
- Photography 1 (PHO 8)
- Photography 2 (PHO 9)
- Video Production (FTV 67)
- Web Design and Development (CIS 72A)

**Moreno Valley Unified School District**

- Accounting (CAT/ACC 55)
- Advanced Video Production (FTV 67)
- Anatomy and Physiology (AMY 10)
- Architectural Design and Drafting (ARE 24)
- Automotive Technology (AUT 50)
- Construction Printing Reading (CON 62)
- Construction Technology (CON 60)
- Digital Electronics (ELE 25)
- Digital Media Production (ADM 71)
- Engineering Drawing 1 and 2 (ENE 21 and ENE 30)
- Intro to Healthcare-Medical Terminology (B or Better) (MDA 1A)
- Intro to Health Care-Preparing to Work in Health Care Level 1 and 2 (3 year academy) (HET 79)
- Photography 101 (PHO 8 and PHO 9)
- Principles of Engineering (ENE 60 and ENE 10)

**Murrieta Valley Unified School District**

- Intro to Automotive Technology (AUT 50)

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**Riverside County Office of Education Regional Occupational Program**

- Allied Health Occupations (HET 79)
- Automotive Technology (AUT 50)
- Brick, Block, and Stonemasonry (CON 81, 82, 83, 84, 85, 86)
- CIS Business Computers (CAT/CIS 3)
- Construction Technology (CON 60)
- Fire Service Occupations (FIT 1)
- First Responder (FIT E2A)
- Graphics Tech/Print Occup. (ADM 1)
- Manufacturing Technology (WEL 34)
- Medical Assisting Clinical (MDA 54)
- Medical Front Office (MDA 59)
- Medical Terminology (MDA 2A)
- Nurse Assistant (HET 80)
- Television/Video Production Level 1 (FTV 67)

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**Riverside Unified School District**

- Anatomy and Physiology (AMY 10)
- Architectural Drawing A and B (ARE 24)
- CISCO Networking Academy Fundamentals 1 (CIS 26A)
- CISCO Networking Academy Fundamentals 2 (CIS 26B)
- CISCO Networking Academy Fundamentals 3 (CIS 26C)
- CISCO Networking Academy Fundamentals 4 (CIS 26D)
- Drafting Technology A and B (ENE 21)
- Digital Electronics (ELE 21)
- Digital Electronics (Project Lead the Way) (ENE 25)
- First Responder (FIT E2A)
- Principles of Engineering (Project Lead the Way) (ENE 60 and ENE 10)

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**San Bernardino City Unified School District**

- Automotive Technology (AUT 50)
- Cisco Networking Academy 1A (CIS 26A)
- Cisco Networking Academy 1B (CIS 26B)
- Cisco Networking Academy 1C (CIS 26C)
- Cisco Networking Academy 1D (CIS 26D)
- Construction Occupations (CON 60)
- First Responder (FIT E2A)
- Integrated Graphics Technology (Year 1) (PHO 20)
- Integrated Graphics Technology (Year 1-2) (ADM 1)
- Integrated Graphics Technology (Year 3) (FTV 67)

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**San Bernardino County School Regional Occupational Program**

- Computer Aided Drafting (ENE 21, ENE 30)
- Fire Technology (FIT 1)
- First Responder (FIT E2A)
- Office Operations and Technology (CAT 53)
- Printing Press Operations/Digital Design/Design Electronic Prepress (3 Semesters) (ADM 1)
- Television/Video Production (FTV 67)
- Welding (WEL 34)

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**Val Verde Unified School District**

- Accounting (CAT/ACC 55)
- Business Computers (1 Semester) (CAT/CIS 34A)
- Business Computers (2 Semesters) (CAT/CIS 3)
- Cisco Academy 1A (CIS 26A)
- Cisco Academy 1B (CIS 26B)
- Cisco Academy 1C (CIS 26C)
- Cisco Academy 1D (CIS 26D)
- Computer Essentials (CAT 53)
- Human Anatomy and Physiology for Health Careers (AMY 10)
- Telecommunications (FTV 67)

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**How To Get Further Information**

Many career and technical education programs are described in special publications of the district. These can often be obtained from high school counseling offices, or prospective students may write or telephone Career and Technical Education, Riverside Community College District, 4800 Magnolia Avenue, Riverside, CA 92506-1299, (951) 222-8963.
CAREER AND TECHNICAL EDUCATION PROGRAMS
Riverside Community College District offers Associate of Science Degrees and Certificate Programs with occupational emphasis. Both provide instruction in the skills and knowledge needed to enter a skilled or professional occupation. Associate of Science Degree programs require completion of at least 60 units of credit, which normally take four semesters. Certificate programs, leading to an associate of science degree, require a minimum of 18 units, but vary in number of units required; most can be completed in two semesters. Certificates lead to employment. Each course required for the certificate must be completed with a “C” grade or better. All can be counted toward the degree as well as the major.

Need for Specialized Training
Many find it difficult to secure employment or to advance to increased responsibility and better-paying jobs without specialized training. General education has its values, to be sure, but in the early stages of one’s career it is the specific, technical skills that an employer seeks. The certificate is the best evidence that this specialized training has been secured; some employers actually require it as a condition of employment or for reclassification for higher pay.

Who Can Enroll in the Career and Technical Education Programs?
Individuals wishing to enroll at Riverside Community College District must file an official application in the Admissions and Records Office located on any of the District’s three colleges. Admission to Riverside Community College District is regulated by state law as prescribed in the California Education Code.

Certificate Course Requirements
Students should plan to enroll in the specific courses listed under the certificate desired. If a required course for a certificate program is no longer offered, please see the department chair to ascertain an acceptable course substitute. Fifty percent of the coursework required for any certificate pattern must be completed at Riverside Community College District.

ASSOCIATE OF SCIENCE DEGREE
The Associate of Science Degree consists of course work totaling 60 units or more, including coursework in a specific college certificate pattern plus general education and elective courses.

STATE-APPROVED CERTIFICATE (Certificate of Achievement)
The state-approved certificate consists of coursework totaling 18 units or more completed in a specific occupational college certificate pattern. State-approved certificates may lead to employment competency and may also lead to an associate degree.

LOCALLY-APPROVED CERTIFICATE (Certificate of Career Preparation)
The locally-approved certificate consists of coursework totaling between 4 to 17 units completed in a specific occupational college certificate pattern. Locally-approved certificates may lead to employment competency, but do not necessarily lead to an associate degree.

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<td>Administration &amp; Information Systems</td>
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<tr>
<td>Communications, Media &amp; Languages</td>
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## CAREER AND TECHNICAL EDUCATION
### CERTIFICATES AND DEGREES

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<tr>
<td>Virtual Assistant</td>
<td>CE677</td>
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<tr>
<td>Moreno Valley College</td>
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<tr>
<td>MARCH DENTAL EDUCATION CENTER</td>
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<tr>
<td>Dental Assistant</td>
<td>AS621/CE621</td>
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<tr>
<td>Dental Hygiene</td>
<td>AS 724</td>
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<tr>
<td>Dental Laboratory Technology</td>
<td>AS723/CE723</td>
<td>•</td>
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</tr>
</tbody>
</table>
ACCOUNTING
SEE BUSINESS ADMINISTRATION

ADMINISTRATION OF JUSTICE

ADMINISTRATION OF JUSTICE (MNR) AS504/CE504
This program focuses on the criminal justice system, its organizational components and processes, as well as its legal and public policy contexts. This includes instruction in criminal law and policy, police and correction systems organization, the administration of justice and the judiciary, and public attitudes regarding criminal justice issues.

Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:

- Demonstrate knowledge of the breadth, scope and interconnectivity of the criminal justice system.
- Demonstrate an understanding of the theories and research in the area of crime, criminality and criminal justice.
- Demonstrate a basic knowledge of criminal law.
- Demonstrate a knowledge of the implications of legal evidence in the processing of criminal cases.
- Demonstrate a knowledge of the role of policing and the maintenance of favorable community relations.

Required Courses (27 units) Units
ADJ-1 Introduction to the Administration of Justice 3
ADJ-2 Principles and Procedures of the Justice System 3
ADJ-3 Concepts of Criminal Law 3
ADJ-4 Legal Aspects of Evidence 3
ADJ-5 Community Relations 3
Electives Choose from elective courses in the discipline 12

Associate of Science Degree
The Associate of Science Degree in Administration of Justice will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

ADMINISTRATION OF JUSTICE/LAW ENFORCEMENT (M) AS563/CE563
Certificate Program
Required Courses (18 units minimum) Units
ADJ-B1B Basic Peace Officer Training Academy 18
or all of the following:
ADJ-P4A, R1A2, R1B, R1C and W10A Reserve Training Module Format 36.25

Associate of Science Degree
The Associate of Science Degree in Administration of Justice/Law Enforcement will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

ADMINISTRATION OF JUSTICE BASIC CORRECTIONAL (M) CE783 DEPUTY ACADEMY
Certificate Program
Required Courses (13 units) Units
ADJ-C1D Basic Correctional Deputy Academy (C) 13

ADMINISTRATION OF JUSTICE BASIC PUBLIC (M) CE784 SAFETY DISPATCH COURSE
Certificate Program
Required Courses (5 units) Units
ADJ-D1A Basic Public Safety Dispatch Course 5

CRIME SCENE INVESTIGATION (NR) CE619
Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:

- Demonstrate knowledge of the principle components of criminal law and the criminal justice system.
- Demonstrate an advanced knowledge of the procedures and process of collecting, preserving, and cataloging physical evidence from a crime scene.
- Demonstrate an advanced ability to use computer technology to report the collection, preservation, and presentation of crime scene evidence.

Required Courses (15 units) Units
ADJ-2 Principles and Procedures of the Justice System 3
ADJ-3 Concepts of Criminal Law 3
ADJ-13 Criminal Investigation 3
ADJ-14 Advanced Criminal Investigation 3
ANT-10 Forensic Anthropology 3

INVESTIGATIVE ASSISTANT (NR) CE785
Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:

- Demonstrate a basic knowledge of the principle components of criminal law and the criminal justice system.
- Demonstrate a basic knowledge of the procedures and process of collecting, preserving, and cataloging physical evidence from a crime scene.
- Demonstrate the ability to properly write official reports related to the collection, preservation, and presentation of crime scene evidence.
- Demonstrate the ability to employ computer technology to facilitate student learning outcomes 1 through 3 above.

Required Courses (15 units) Units
ADJ-3 Concepts of Criminal Law 3
ADJ-4 Legal Aspects of Evidence 3
ADJ-13 Criminal Investigation 3
ADJ-23 Criminal Justice Report Writing 3
CIS-1A Introduction to Computer Information Systems 3
1. Successful completion of ENG-1A may substitute for this course.
Program Learning Outcomes
Upon successful completion of this program, students should be able to:

- Demonstrate a knowledge of the breadth, scope, and interconnectivity of the criminal justice system.
- Demonstrate an understanding of the theories and research in the area of crime, criminality and criminal justice.
- Demonstrate the ability to conduct interpersonal interviews and counseling generally applicable to the helping professions.
- Demonstrate the ability to read and write at the college freshman level.
- Demonstrate an overall ability to enter Victim-Witness Advocacy programs at a level of trainee, intern, or other novice position.

Required Courses (16 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADJ-1</td>
<td>Introduction to the Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>ADJ-2</td>
<td>Principles and Procedures of the Justice System</td>
<td>3</td>
</tr>
<tr>
<td>ENG-1A</td>
<td>English Composition</td>
<td>4</td>
</tr>
<tr>
<td>HMS-5</td>
<td>Introduction to Evaluation and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPE-9</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SOC-20</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

AIR CONDITIONING AND REFRIGERATION

AIR Conditioning and Refrigeration (R)  AS596/CE596

This program prepares individuals to apply technical knowledge and skills to repair, install, service, and maintain the operating condition of air conditioning, and refrigeration systems. This includes instruction in diagnostic techniques, the use of testing equipment, the principles of mechanics, electricity, and electronics as they relate to the repair of air conditioning and refrigeration systems.

Certificate Program

Program Learning Outcomes
Upon successful completion of this program, students should be able to:

- Demonstrate technical knowledge and skills needed to repair, install, service, and maintain air conditioning and refrigeration systems in operating condition.
- Utilize diagnostic techniques and testing equipment in the repair of air conditioning and refrigeration systems.
- Apply principles of mechanics, electricity, and electronics to the repair of air conditioning and refrigeration systems.

Required Courses (26-27 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR-50A</td>
<td>Air Conditioning and Refrigeration</td>
<td>5</td>
</tr>
<tr>
<td>AIR-50B</td>
<td>Advanced Refrigeration</td>
<td>5</td>
</tr>
<tr>
<td>AIR-51A</td>
<td>Environmental Control</td>
<td>5</td>
</tr>
<tr>
<td>AIR-51B</td>
<td>Industrial Commercial Refrigeration</td>
<td>5</td>
</tr>
<tr>
<td>AIR-53</td>
<td>Basic Electricity for Air Conditioning and Refrigeration</td>
<td>4</td>
</tr>
<tr>
<td>Electives (Choose from list below)</td>
<td></td>
<td>2-3</td>
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</table>

Electives (2-3 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON-62</td>
<td>Blueprint Reading</td>
<td>3</td>
</tr>
<tr>
<td>WEL-34</td>
<td>Metals Joining Processes</td>
<td>2</td>
</tr>
</tbody>
</table>

Associate of Science Degree

The Associate of Science Degree in Air Conditioning and Refrigeration will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

APPLIED DIGITAL MEDIA AND PRINTING

Applied Digital Media and Printing (R)  AS653/CE653

This program prepares students for a wide variety of careers in graphic arts and multimedia. This includes instruction in graphic design, illustration, photo manipulation, web design, animation, electronic prepress, press operation, bindery, and management, using the latest computers and software available. Classes are structured to give strong academic and hands-on experience for entry into the graphic arts / multimedia industries.

Certificate Program

Program Learning Outcomes
Upon successful completion of this program, students should be able to:

- Describe and demonstrate the sequence of steps involved in producing a printed product
- Evaluate current technical applications and trends occurring in the graphics industry
- Develop budgeted hourly rates and estimates
- Develop an organizational structure of layout, planning, and work flow in a production company
- Evaluate and assign a substrate and ink to a project for effectiveness and consistency
- Use Adobe InDesign publishing software to complete page layouts and designs for a variety of professional publishing purposes
- Use live jobs to demonstrate the ability to interpret job ticket instructions, keep accurate records, and maintain job flow and deadlines of production projects
- Demonstrate the basic use of Adobe Photoshop tools and functions including channels, layers, masking, color correction, duotones, and filters
- Identify file formats appropriate for digital image manipulation and output file formats appropriate for business and industry
- Produce high quality line and halftone images through the use of the process camera and/or imagesetter and flatbed scanner
- Assemble one-color to four-color images both manually and digitally in preparation for platemaking
- Demonstrate safe work practices in the printing and graphics workplace
- Demonstrate proper set-up, operation, and clean-up of a small offset-duplicator
- Demonstrate proper set-up and operation of folding and cutting equipment
- Develop economic, civic, and moral responsibility and ethics of good citizenship through an understanding of the role that printing has played in our society
- Produce a portfolio of projects suitable for use in an employment interview
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM-1</td>
<td>Introduction to Applied Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ADM-30</td>
<td>Contemporary Topics in Applied Digital Media</td>
<td>1</td>
</tr>
<tr>
<td>ADM-58</td>
<td>Paper and Inks for Multi-purposed Design</td>
<td>1</td>
</tr>
<tr>
<td>ADM-63</td>
<td>Adobe InDesign</td>
<td>3</td>
</tr>
<tr>
<td>ADM-70</td>
<td>Project Design and Production</td>
<td>3</td>
</tr>
<tr>
<td>ADM-71</td>
<td>Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>ADM-80</td>
<td>Introductory Digital Darkroom</td>
<td>3</td>
</tr>
<tr>
<td>ADM-85</td>
<td>Beginning Offset Presswork</td>
<td>3</td>
</tr>
<tr>
<td>ADM-89</td>
<td>Applied Digital Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>(Choose from list below)</td>
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**Electives (10 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ADM-64</td>
<td>Ethics and Legalities of Digital Manipulation</td>
<td>1</td>
</tr>
<tr>
<td>ADM-65</td>
<td>Cross Platform File Management</td>
<td>1</td>
</tr>
<tr>
<td>ADM-67</td>
<td>WEB Animation with Flash</td>
<td>3</td>
</tr>
<tr>
<td>ADM-68</td>
<td>3D Animation with Maya</td>
<td>3</td>
</tr>
<tr>
<td>ADM-69</td>
<td>Motion Graphics and Compositing with After Effects</td>
<td>3</td>
</tr>
<tr>
<td>ADM-72</td>
<td>Advanced Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>ADM-73</td>
<td>Developing and Authoring Multimedia CD's and DVD's</td>
<td>3</td>
</tr>
<tr>
<td>ADM-74</td>
<td>Dreamweaver for Graphic Designers</td>
<td>3</td>
</tr>
<tr>
<td>ADM-76</td>
<td>QuarkXPress</td>
<td>3</td>
</tr>
<tr>
<td>ADM-77A</td>
<td>Adobe Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>ADM-77B</td>
<td>Advanced Adobe Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>ADM-78A</td>
<td>Multimedia Construction with Macromedia Director</td>
<td>3</td>
</tr>
<tr>
<td>ADM-78B</td>
<td>Multimedia Construction using Lingo</td>
<td>3</td>
</tr>
<tr>
<td>ADM-79</td>
<td>Multimedia Production using Painter</td>
<td>3</td>
</tr>
<tr>
<td>ADM-81</td>
<td>Advanced Digital Darkroom</td>
<td>3</td>
</tr>
<tr>
<td>ADM-86</td>
<td>Advanced Offset Presswork and Bindery</td>
<td>3</td>
</tr>
<tr>
<td>ADM-88</td>
<td>3D Creature Creations with Maya</td>
<td>3</td>
</tr>
<tr>
<td>ADM-200</td>
<td>Applied Digital Media and Printing Work Experience</td>
<td>1-2-3-4</td>
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<tr>
<td>ART-22</td>
<td>Basic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-36</td>
<td>Computer Art</td>
<td>3</td>
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<tr>
<td>CIS-54B</td>
<td>Introduction to Flash Scripting</td>
<td>3</td>
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<tr>
<td>ENG-17</td>
<td>Literary Magazine Production</td>
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<td>FTV-64</td>
<td>Digital Editing Principles and Techniques</td>
<td>3</td>
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<tr>
<td>PHO-20</td>
<td>Introduction to Digital Still Photography</td>
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</table>

### BASIC ELECTRONIC PREPRESS (R) CE822

**Certificate Program**

**Required Courses (17 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ADM-1</td>
<td>Introduction to Applied Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ADM-63</td>
<td>Adobe InDesign</td>
<td>3</td>
</tr>
<tr>
<td>ADM-64</td>
<td>Ethics and Legalities of Digital Manipulation</td>
<td>1</td>
</tr>
<tr>
<td>ADM-65</td>
<td>Cross Platform File Management</td>
<td>1</td>
</tr>
<tr>
<td>ADM-71</td>
<td>Adobe PhotoShop</td>
<td>3</td>
</tr>
<tr>
<td>ADM-80</td>
<td>Introductory Digital Darkroom</td>
<td>3</td>
</tr>
<tr>
<td>ADM-85</td>
<td>Beginning Offset Presswork</td>
<td>3</td>
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</table>

### BASIC GRAPHIC DESIGN (R) CE823

Prepares students for a career in graphic design to become a skilled technician for design careers in business, industry and the public/private sectors.

**Certificate Program**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Describe and demonstrate the sequence of steps involved in producing a printed product
- Demonstrate the principles of design as they relate to two-dimensional artworks
- Review the basics of color theory
- Create page layouts and designs for a variety of professional publishing purposes
- Demonstrate digital workflow by creating, importing, and distributing Adobe Acrobat PDF files
- Describe the basic principles of copyright legalities
- Demonstrate proper file naming conventions of major computer platforms
- Define intellectual property
- Explain the differences and the common use of various graphic file formats
- Demonstrate the use of preflight software in preparing files for output
- Evaluate, correct, and apply proper resolution and color models to images
- Evaluate the difference between TrueType, Opentype, and Postscript
- Apply illustration techniques using a scanner and computer to create and modify artwork

**Required Courses (17 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ADM-1</td>
<td>Introduction to Applied Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ADM-63</td>
<td>Adobe InDesign</td>
<td>3</td>
</tr>
<tr>
<td>ADM-64</td>
<td>Ethics and Legalities of Digital Manipulation</td>
<td>1</td>
</tr>
<tr>
<td>ADM-65</td>
<td>Cross Platform File Management</td>
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<tr>
<td>ADM-71</td>
<td>Adobe PhotoShop</td>
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<tr>
<td>ADM-77A</td>
<td>Adobe Illustrator</td>
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<tr>
<td>ART-22</td>
<td>Basic Design</td>
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</tbody>
</table>

### Associate of Science Degree

The Associate of Science Degree in Applied Digital Media and Printing will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
BASIC MULTIMEDIA DESIGN (R)  CE821
Prepares students for a career in multimedia to become a skilled technician for new media careers in business, industry and the public/private sectors.

Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Compare and contrast legal, social and commercial policies regarding new media piracy
• Define intellectual property
• Describe the basic principles of copyright legalities
• List and describe the professional responsibilities of new media producers
• Use Adobe Flash to create a WEB animation using Flash’s panels, commands and interface
• Describe the role and use of motion graphics in video and film
• Identify file formats appropriate for digital image manipulation and output file formats appropriate for business and industry
• Analyze and apply appropriate image resolution regarding personal computer hardware, digital output to film, direct-to-plate printing systems, and file size management
• Create cross-platform media that includes a variety of media including photos, video and audio
• Construct QuickTime Movies for Macintosh and Windows platforms use of Apple Compressor
• Design, debug, and use the Flash scripting language to create/load action video, and control sound
• Assemble Flash script from external files to load content, such as event listener, gallery files in order to control all aspects of sounds, actions, colors, and email

Required Courses (17 units)  Units
ADM-64   Ethics and Legalities of Digital Manipulation   1
ADM-67   Web Animation with Flash   3
ADM-69   Motion Graphics with After Effects   3
ADM-71   Adobe PhotoShop   3
ADM-89   Applied Digital Portfolio   1
CIS-54B   Introduction to Flash Scripting   3
PHO-20   Introduction to Digital Still Photography   3

ARCHITECTURE
ARCHITECTURE (N)  AS509/CE509
This program prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations for architectural and related construction projects. This includes instruction in basic construction and structural design, architectural rendering, architectural-aided drafting (CAD), layout and designs, architectural industrial print interpretation, building materials, and basic structural wiring diagramming.

Certificate Program
Student Learning Outcomes
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of architecture by completing a set of residential working drawings, which may include first floor drawings, second floor drawings, foundation drawings, elevations, cross-sections, framing, electrical drawings, and structural detail.

Required Courses (27 units)  Units
ARE-24   Architectural Drafting   3
ARE-25   Advanced Architectural Drafting   3
ARE-26   Architectural Rendering   3
ARE-35   History of Architecture-Beginnings of Architecture through Gothic Architecture   3
or
ARE-36   History of Architecture-Renaissance through the 20th Century   3
ARE-37   Architectural Design I   3
or
ART-22   Basic Design   3
ENE-21   Drafting   3
ENE-30   Computer-Aided Drafting (CAD)   3
ENE-60   Math for Engineering Technology   3
Electives (Choose from list below)   3

ARCHITECTURE THROUGH THE 20TH CENTURY  AS509/CE509
This program prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations for architectural and related construction projects. This includes instruction in basic construction and structural design, architectural rendering, architectural-aided drafting (CAD), layout and designs, architectural industrial print interpretation, building materials, and basic structural wiring diagramming.

Certificate Program
Student Learning Outcomes
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of architecture by completing a set of residential working drawings, which may include first floor drawings, second floor drawings, foundation drawings, elevations, cross-sections, framing, electrical drawings, and structural detail.

Required Courses (27 units)  Units
ARE-24   Architectural Drafting   3
ARE-25   Advanced Architectural Drafting   3
ARE-26   Architectural Rendering   3
ARE-35   History of Architecture-Beginnings of Architecture through Gothic Architecture   3
or
ARE-36   History of Architecture-Renaissance through the 20th Century   3
ARE-37   Architectural Design I   3
or
ART-22   Basic Design   3
ENE-21   Drafting   3
ENE-30   Computer-Aided Drafting (CAD)   3
ENE-60   Math for Engineering Technology   3
Electives (Choose from list below)   3

ARCHITECTURAL GRAPHICS (N)  CE787
This program prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations for architectural and related construction projects. This includes instruction in basic construction and structural design, architectural rendering, architectural-aided drafting (CAD), layout and designs, architectural industrial print interpretation, building materials, and basic structural wiring diagramming.

Certificate Program
Student Learning Outcomes
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of architectural graphics by completing a set of residential working drawings, which may include first floor drawings, second floor drawings, foundation drawings, elevations, cross-sections, framing, electrical drawings, and structural detail.

Required Courses (9 units)  Units
ARE-24   Architectural Drafting   3
ENE-21   Drafting   3
ENE-30   Computer-Aided Drafting   3

M - Moreno Valley College  N - Norco College  R - Riverside City College
ART

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

VISUAL COMMUNICATIONS - ANIMATION (R) CE774

This program prepares individuals to communicate information, entertainment and ideas through motion picture animation. This includes practical, hands-on instruction in how to plan and produce a variety of animated works seeing the project through from concept to practice including but not limited to writing, directing, and all aspects of animation production.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Demonstrate the ability to apply the principles of animation and story telling, in conceptual and visual form, to the creation of motion pictures that entertain audiences.
- Discuss the history of film animation and identify examples that consider a variety of the fundamental approaches to the art of animation.
- Assume the roles of writer, director, producer, animator, editor, storyboard artist, and production manager in the creation of animated works.
- Acquire skills that facilitate their ability to adapt themselves to the professional world, and have long-lasting and enriched careers.

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-20</td>
<td>Beginning Sculpture</td>
<td>3</td>
</tr>
</tbody>
</table>
| or
| ART-24   | 3D Design                                  | 3     |
| ART-40   | Figure Drawing                             | 3     |
| ART-41   | Figure Painting                            | 3     |
| ART-44   | Animation                                  | 3     |
| Digital Media Electives (Choose from list below) |       |

Digital Media Electives (3 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART-36</td>
<td>Computer Art</td>
<td>3</td>
</tr>
<tr>
<td>ADM-1</td>
<td>Introduction to Applied Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ADM-71</td>
<td>Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>ADM-76</td>
<td>QuarkXPress</td>
<td>3</td>
</tr>
<tr>
<td>ADM-77A</td>
<td>Adobe Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>ADM-78A</td>
<td>Multimedia Construction with Macromedia Director</td>
<td>3</td>
</tr>
<tr>
<td>ADM-78B</td>
<td>Multimedia Construction using Lingo</td>
<td>3</td>
</tr>
<tr>
<td>ADM-79</td>
<td>Multimedia Production using Painter</td>
<td>3</td>
</tr>
</tbody>
</table>


VISUAL COMMUNICATIONS - ILLUSTRATION (R) CE825

This program prepares individuals to visually communicate information and ideas through personal expression that features figurative work. This includes practical, hands-on instruction in how to plan and produce a variety of illustrated works integrating communication goals with a visual message.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Acquire skills to fuse the creative thinking and technical communication skills with a personal vision.
- Discuss verbally and illustrate visually a basic understanding of commercial illustration techniques.
- Develop skills to visually solve problems and communicate their ideas in order to prepare an operational portfolio of their creative and successful works.
- Hone artistic skills and technical expertise in order to effectively convey complex ideas in a variety of media.

Required Courses (17 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-17</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-22</td>
<td>Basic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-26</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART-35</td>
<td>Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ADM-64</td>
<td>Ethics and Legallities of Digital Manipulation</td>
<td>1</td>
</tr>
<tr>
<td>ADM-65</td>
<td>Cross Platform File Management</td>
<td>1</td>
</tr>
</tbody>
</table>

Digital Media Electives (Choose from list below) 3 units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-36</td>
<td>Computer Art</td>
<td>3</td>
</tr>
<tr>
<td>ADM-1</td>
<td>Introduction to Applied Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ADM-71</td>
<td>Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>ADM-76</td>
<td>QuarkXPress</td>
<td>3</td>
</tr>
<tr>
<td>ADM-77A</td>
<td>Adobe Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>ADM-78A</td>
<td>Multimedia Construction with Macromedia Director</td>
<td>3</td>
</tr>
<tr>
<td>ADM-79</td>
<td>Multimedia Production using Painter</td>
<td>3</td>
</tr>
</tbody>
</table>

AUTOMOTIVE TECHNOLOGY

AUTOMOTIVE TECHNOLOGY - AUTOMOTIVE (R) AS511/CE511

BODY REPAIR

This program prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. This includes instruction in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, damage analysis, and estimating.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Develop entry-level skills and knowledge for employment in the automotive industry. i.e. employment in an auto body repair facility, automotive paint shop.
- Acquire the skills and knowledge to work safely in the lab/shop environment.
- Demonstrate the ability to become part of the Inter-Industry Conference on Auto Collision Repair (I-CAR).

Required Courses (30 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUB-50</td>
<td>Introduction to Automotive Body Technology</td>
<td>4</td>
</tr>
<tr>
<td>AUB-51</td>
<td>Intermediate Automotive Body Technology</td>
<td>4</td>
</tr>
<tr>
<td>AUB-52</td>
<td>Automotive Body Refinishing</td>
<td>4</td>
</tr>
<tr>
<td>AUB-53</td>
<td>Automotive Body Special Projects</td>
<td>4</td>
</tr>
<tr>
<td>AUB-54</td>
<td>Advanced Automotive Body and Frame</td>
<td>4</td>
</tr>
<tr>
<td>AUB-60</td>
<td>Automotive Trim and Upholstery, I</td>
<td>4</td>
</tr>
<tr>
<td>AUT-53A</td>
<td>Automotive Chassis and Alignment</td>
<td>4</td>
</tr>
<tr>
<td>WEL-34</td>
<td>Metal Joining Processes</td>
<td>2</td>
</tr>
</tbody>
</table>
**Associate of Science Degree**

The Associate of Science Degree in Automotive Technology-Automotive Body Repair will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**AUTOMOTIVE TECHNOLOGY - AUTOMOTIVE (R) AS516/CE516**

**TRIM AND UPHOLSTERY**

This program prepares individuals to apply technical knowledge and skills to install springs, filling, padding, covering, and finishing (trim) on automobile related products.

**Certificate Program**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Demonstrate their proficiency by the use of upholstery tools and techniques while removing, stripping, reupholstering, and reinstalling an automotive seat or bench.
- Calculate the adequate amount of material and time required to reupholster an automotive seat or bench.

**Required Courses (26 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUB-50</td>
<td>4</td>
</tr>
<tr>
<td>AUB-51</td>
<td>4</td>
</tr>
<tr>
<td>AUB-52</td>
<td>4</td>
</tr>
<tr>
<td>AUB-53</td>
<td>4</td>
</tr>
<tr>
<td>AUB-60</td>
<td>4</td>
</tr>
<tr>
<td>AUB-61</td>
<td>4</td>
</tr>
<tr>
<td>WEL-34</td>
<td>2</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Automotive Technology-Automotive Trim and Upholstery will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**AUTOMOTIVE TECHNOLOGY - ELECTRICAL (R) AS513/CE513**

This program prepares individuals to apply technical knowledge and skills to operate, maintain, and repair electrical and electronic equipment with in an automobile. This includes instruction in electrical circuitry, simple gearing, linkages, and the use of test equipment.

**Certificate Program**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Pass the Bureau of Automotive Repair (BAR) smog licensing certification exam.
- Pass the Automotive Service Excellence (ASE) national certification exam.
- Pass the International Mobile Air Conditioning Association (IMAC) certification exam.

**Required Courses (23 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT-50</td>
<td>4</td>
</tr>
<tr>
<td>AUT-52A</td>
<td>4</td>
</tr>
<tr>
<td>AUT-52B</td>
<td>4</td>
</tr>
<tr>
<td>AUT-54</td>
<td>4</td>
</tr>
<tr>
<td>AUT-56</td>
<td>3</td>
</tr>
<tr>
<td>AUT-57</td>
<td>4</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Automotive Technology-Electrical will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**AUTOMOTIVE TECHNOLOGY - FORD SPECIALTY (R) AS519**

The program is a joint effort of Riverside Community College, Ford Motor Company, and area Ford, Lincoln-Mercury and Mazda dealers. Students will participate in 9 to 12 weeks of classroom instruction, alternated with an additional 9 weeks of full-time paid work experience at a sponsoring Ford, Lincoln-Mercury or Mazda dealership. The system allows students to become familiar with the dealership environment, while applying and reinforcing the on-campus learning.

**Associate Degree Program**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Develop entry-level skills and knowledge for employment in the automotive industry. i.e. employment in a Ford, Mercury, or Mercury dealership.
- Acquire the skills and knowledge to work safely in the lab/shop environment.
- Demonstrate the ability to pass the Automotive Service Excellence (ASE) national certification exams.

**Required Courses (44 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT-71</td>
<td>4</td>
</tr>
<tr>
<td>AUT-72</td>
<td>4</td>
</tr>
<tr>
<td>AUT-73</td>
<td>8</td>
</tr>
<tr>
<td>AUT-74</td>
<td>4</td>
</tr>
<tr>
<td>AUT-75</td>
<td>4</td>
</tr>
<tr>
<td>AUT-76</td>
<td>4</td>
</tr>
<tr>
<td>AUT-77</td>
<td>4</td>
</tr>
<tr>
<td>AUT-79</td>
<td>2</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Automotive Technology-Ford Specialty will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**AUTOMOTIVE TECHNOLOGY - GENERAL MOTORS (R) AS583 SPECIALTY**

This program is a joint effort of Riverside Community College, General Motors Corporation and local GM dealers. Students will participate in 9 weeks of classroom instruction, alternated with an additional 9 weeks of full-time paid work experience at a sponsoring GM dealership. The system allows students to become familiar with the dealership environment, while applying and reinforcing the on-campus learning.

**Associate Degree Program**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Develop entry-level skills and knowledge for employment in the automotive industry. i.e. employment in a Chevrolet, GMC, or Cadillac dealership.
• Acquire the skills and knowledge to work safely in the lab/shop environment.
• Demonstrate their ability to pass the Automotive Service Excellence (ASE) national certification exams.

**Required Courses (44 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT-81</td>
<td>GM Electrical and Electronics Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUT-82</td>
<td>GM Applied Electronics</td>
<td>4</td>
</tr>
<tr>
<td>AUT-83</td>
<td>GM Engine Performance</td>
<td>8</td>
</tr>
<tr>
<td>AUT-84</td>
<td>GM Brakes, Steering and Suspension Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUT-85</td>
<td>GM Gasoline Engine and Repair</td>
<td>4</td>
</tr>
<tr>
<td>AUT-86</td>
<td>GM Advanced Chassis Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUT-88</td>
<td>GM Manual Transmissions and Drive Trains</td>
<td>4</td>
</tr>
<tr>
<td>AUT-89</td>
<td>GM Automatic Transmissions and Transaxles</td>
<td>4</td>
</tr>
<tr>
<td>AUT-99</td>
<td>Automotive Technology Internship (must be taken four times)</td>
<td>2-2-2-2</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Automotive Technology-General Motors Specialty will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**AUTOMOTIVE TECHNOLOGY - MECHANICAL (R) AS515/CE515**

This program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. This includes instruction in brake systems, engine repair, suspension and steering, automatic and manual transmissions, and drive trains.

**Certificate Program**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Work safely in a shop environment.
- Utilize common shop equipment to diagnose and repair automobiles.
- Pass the Automotive Service Excellence (ASE) national certification exam.

<table>
<thead>
<tr>
<th>Required Courses (28 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT-50 Automotive Principles</td>
<td>4</td>
</tr>
<tr>
<td>AUT-51A Internal Combustion Engines Rebuilding, Gas and Diesel-Upper End</td>
<td>4</td>
</tr>
<tr>
<td>AUT-51B Internal Combustion Engines Rebuilding, Gas and Diesel-Lower End</td>
<td>4</td>
</tr>
<tr>
<td>AUT-53A Automotive Chassis and Alignment</td>
<td>4</td>
</tr>
<tr>
<td>AUT-53B Automotive Brakes</td>
<td>4</td>
</tr>
<tr>
<td>AUT-55A Automotive Automatic Transmissions/Transaxles</td>
<td>4</td>
</tr>
<tr>
<td>AUT-55B Automotive Manual Drivetrain Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Automotive Technology-Mechanical will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**TOYOTA T-TEN (R) AS517/CE517**

T-Ten offers accelerated options for career-minded individuals who want to quickly begin a dynamic, rewarding profession. Learn from top ASE-Certified instructors who are passionate about cars and eager to help you build a future. Master the latest diagnostic equipment in controlled, supervised learning environments. Make money while you learn on-the-job with a worksite education experience at a Toyota or Lexus dealership (where available).

**Certificate Program**

**Required Courses (28 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT-61</td>
<td>Introduction to Toyota Service</td>
<td>3</td>
</tr>
<tr>
<td>AUT-62</td>
<td>Toyota Fuel Systems I</td>
<td>3</td>
</tr>
<tr>
<td>AUT-63</td>
<td>Toyota Electrical Systems Mastery</td>
<td>3</td>
</tr>
<tr>
<td>AUT-64</td>
<td>Toyota Brakes and Suspension</td>
<td>3</td>
</tr>
<tr>
<td>AUT-65A</td>
<td>Toyota Manual Transmissions and Transaxles</td>
<td>3</td>
</tr>
<tr>
<td>AUT-65B</td>
<td>Toyota Automatic Transmissions and Transaxles</td>
<td>3</td>
</tr>
<tr>
<td>AUT-66</td>
<td>Toyota Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUT-67</td>
<td>Toyota Fuel Systems II</td>
<td>3</td>
</tr>
<tr>
<td>AUT-99</td>
<td>Automotive Technology Internship (must be taken 2 times)</td>
<td>2-2</td>
</tr>
</tbody>
</table>

**BANKING AND FINANCE**

The following certificate may lead to employment competency, but does not lead to an Associate of Science Degree.

**BANK OPERATIONS (R) CE625**

This program prepares individuals to perform a wide variety of customer services in banks, insurance agencies, savings and loan companies, and related enterprises. This includes instruction in communications and public relation skills, business equipment operation, and technical skills applicable to the methods and operations of specific financial services.

**Certificate Program**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Describe and analyze the roles of financial institutions in our economy and the services they provide.
- Compose business letters and memorandums common to the banking industry.
- Explain banking regulations and describe their impact on the banking industry.
- Research and analyze consumer decision parameters.

<table>
<thead>
<tr>
<th>Required Courses (13 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAN-51 Principles of Banking</td>
<td>3</td>
</tr>
<tr>
<td>CAT-1A Business Etiquette</td>
<td>1</td>
</tr>
<tr>
<td>CAT-30 Business English</td>
<td>3</td>
</tr>
<tr>
<td>CAT-31 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MKT-41 Techniques of Selling</td>
<td>3</td>
</tr>
</tbody>
</table>
BUSINESS ADMINISTRATION
Certificate Program

Program Learning Outcomes
Upon successful completion of this program, students should be able to:

- Use technology to analyze business decisions and to enhance business communications.
- Apply basic business and accounting calculations and analyses.
- Have an understanding of legal practices relating to business.
- Apply sound management practices.

Major Core Requirements:

<table>
<thead>
<tr>
<th>Required Courses (18 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC-1A Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS-10 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS-18A Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS-20 Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>BUS-22 Management Communications</td>
<td>3</td>
</tr>
<tr>
<td>CIS-1A Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
| or
| CIS/CAT-3 Computer Applications for Working Professionals | 3 |

Major Concentration Requirements (12 units)
(In addition to Business Administration Major Core Requirements of 18 units noted above choose another 12 units selected from list below.)
- Accounting 12
- Banking And Finance 12
- General Business 12
- Human Resources 12
- Logistics Management 12
- Management 12
- Marketing 12
- Real Estate 12

NOTE: Students must complete all Business Administration Major Core Requirements and must complete Major Concentration Requirements (total of 30 units) in order to receive the certificate in the concentration area of their choice.

Associate of Science Degree
The Associate of Science Degree in Business Administration with a Major Concentration will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

ACCOUNTING CONCENTRATION (MNR) AS523/CE523
This program prepares individuals to practice the profession of accounting and to perform related business functions. This includes instruction in accounting principles and theory, financial accounting, managerial accounting, cost accounting, budget control, tax accounting, legal aspects of accounting, reporting procedures, statement analysis, planning and consulting, business information systems, accounting research methods, professional standards and ethics, and applications to specific for-profit, public, and non-profit organizations.

Program Learning Outcomes
In addition to outcomes for the Business Administration certificate, on successful completion of the Accounting concentration, students should be able to accomplish at least three of the following eight tasks:

- Explain the managerial applications of accounting reports and ratios to the business enterprise.
- Understand the major role financial reporting plays in fulfilling government’s duty to be publicly accountable in a democratic society.
- Apply cost accounting principles to manufacturing and service enterprises within a global society.
- Analyze and solve problems associated with the calculation and reporting of payroll.
- Analyze data and apply appropriate principles of federal income tax law.
- Apply sound management practices.
- Develop and apply principles of moral judgment and ethical behavior to business situations.

Business Administration Major Core Requirements 18
Required for this concentration 3
ACC-1B Principles of Accounting II 3

Select another 9 units from the following:

ACC-61 Cost Accounting 3
ACC-62 Payroll Accounting 3
ACC-63 Income Tax Accounting 3
ACC-65 Computerized Accounting 3
ACC-66 Non-Profit and Governmental Accounting 3
ACC-200 Work Experience 1-2-3-4
BUS/MAG-47 Applied Business and Management Ethics 3

BANKING AND FINANCE CONCENTRATION (R) AS631/CE631
Program Learning Outcomes
In addition to outcomes for the Businesses Administration certificate, on successful completion of the Banking and Finance concentration, students should be able to:

- Describe and analyze the roles of financial institutions in our economy.
- Describe and analyze the services provided by banking institutions.
- Compose business letters and memorandums common to the banking industry.
- Explain banking regulations and describe their impact on the banking industry.

Business Administration Major Core Requirements 18
Select another 6 units from the following:

BAN-51 Principles of Banking 3
BAN-52 Consumer Lending 3

Select another 6 units from the following:

ACC-1B Principles of Accounting II 3
BUS-18B Business Law II 3
ECO-4 Introduction to Economics 3
MAG-44 Principles of Management 3
MAG-51 Elements of Supervision 3
MAG-53 Human Relations 3
MKT-20 Principles of Marketing 3
MKT-41 Techniques of Selling 3
RLE-83 Real Estate Finance 3

M - Moreno Valley College  N - Norco College  R - Riverside City College
GENERAL BUSINESS CONCENTRATION (MNR)  AS524/CE524
This program focuses on the general study of business, including
domestic, international and electronic, and the important ways in
which business impacts our daily lives. The program will prepare
individuals to apply business principles and techniques in various
career settings and to gain an understanding of business situations
that affect their personal and working lives. This includes the buying,
selling and production of goods and services, understanding business
organizations, general management, and employee motivation
strategies, basic accounting principles, the economy, and marketing.

Program Learning Outcomes
In addition to outcomes for the Businesses Administration certificate,
on successful completion of the General Business concentration,
students should be able to accomplish four of the following seven tasks:
• Explain the managerial applications of accounting reports and
ratios to the business enterprise.
• Analyze the law as it pertains to business organizations and to
determine the legal management of the various forms of law.
• Analyze the business elements that comprise the logistics function.
• Develop and apply principles of moral judgment and ethical
behavior to business situations.
• Anticipate and pose problems relative to understanding and
supervising personnel.
• Identify and analyze human relations techniques appropriate to
a managerial role.
• Explain and develop the marketing mix, including an analysis
of the marketing mix variables—product, place, price, and
promotion.

Business Administration Major Core Requirements 18
Select another 12 units from the following: 12
ACC-1B Principles of Accounting II 3
or
ACC-38 Managerial Accounting 3
BUS-18B Business Law II 3
BUS-40 International Business-Principles 3
BUS/MAG-47 Applied Business and Management Ethics 3
BUS-80 Principles of Logistics 3
BUS-200 Work Experience 1-2-3-4
MAG-51 Elements of Supervision 3
MAG-53 Human Relations 3
MKT-20 Principles of Marketing 3

HUMAN RESOURCES CONCENTRATION (NR)  AS623/CE623
This program prepares individuals to manage the development of
human capital in an organization, and to provide related services
to individuals and groups. This includes instruction in personnel
and organization policy, human resources dynamics and flows,
labor relations, sex roles, civil rights, human resources law and
regulations, motivation and compensation systems, work systems,
career management, employee testing and assessment, recruitment
and selection, managing employee and job training programs, and the
management of human resources programs and operations.

Program Learning Outcomes
In addition to outcomes for the Business Administration certificate,
on successful completion of the Human Resources Management
concentration, students should be able to:
• Apply sound human resources management practices.
• Identify, describe and analyze the role of training and development,
along with key influences that impact this function within human

resources management.
• Describe and analyze the role of employee labor relations
in human resources management, along with key influences
impacting labor relations today.
• Understand the role that Human Resources Management plays in
the successful operations of a business or organization.
• Analyze and explain various human resources laws and policies
required for a professional in the field to know and understand.

Business Administration Major Core Requirements 18
Required for this concentration 3
MAG-56 Human Resources Management
and
Select another 9 units from the following: 9
MAG-51 Elements of Supervision 3
MAG-52 Employee Training and Development 3
MAG-54 Employee Labor Relations 3
MAG/BUS-70 Introduction to Organizational Behavior 3

LOGISTICS MANAGEMENT CONCENTRATION (N)  AS580/CE580
This program focuses on preparing individuals to manage business
logistics functions, ranging from acquisitions to receiving and handling,
through internal allocation of resources to operations units, and delivery
to the final customer. This includes instruction in the domestic and
international aspects of logistics contracts and purchasing, computerized
logistics systems, inventory control, warehousing, transportation, and
freight claims. An overview of general business administration functions
and responsibilities is also provided. Efficient and effective integration
of logistics and general business activities is emphasized.

Program Learning Outcomes
In addition to outcomes from the core Business Administration courses,
and upon successful completion of the Logistics concentration, students
should be able to do four to six of the following eight things:
• Analyze the business elements that comprise the logistics function.
• Examine warehouse operating and service procedures.
• Formulate purchasing decisions.
• Compare different modes of transportation.
• Explain procedures for filing freight claims.
• Analyze types of freight and logistics contracts and their
provisions.
• Diagnose logistics software selection and implementation
procedures.
• Explain the workings of inventory management systems.

Business Administration Major Core Requirements 18
Required for this concentration 3
BUS-80 Principles of Logistics 3
and
Select another 9 units from the following: 9
BUS-81 Inventory Control 1.5
BUS-82 Freight Claims 1.5
BUS-83 Contracts 1.5
BUS-84 Computerized Logistics 1.5
BUS-85 Warehouse Management 3
BUS-86 Transportation and Traffic Management 3
BUS-87 Introduction to Purchasing 3
BUS-90 International Logistics 3
MANAGEMENT CONCENTRATION (MNR)  AS521/CE521
This program generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization with an emphasis on people as the most important asset of a business. This program will prepare individuals seeking management positions to be better candidates for promotion, and those already in management positions to improve their management skills and effectiveness. This includes instruction in management practice and theory, human resources management and behavior, interpersonal communications in a business setting, marketing management, and business decision making.

Program Learning Outcomes
In addition to outcomes for the Businesses Administration certificate, on successful completion of the Management concentration, students should be able to:
• Apply sound management practices.
• Analyze and apply appropriate managerial practices in one or more areas of ethics, human resources, quality management, operations, motivation, etc.

Business Administration Major Core Requirements 18
Required for this concentration 3
MAG-44 Principles of Management 3
and
Select another 9 units from the following: 9
MAG/BUS-47 Applied Business and Management Ethics 3
MAG-53 Human Relations 3
MAG-56 Human Resources Management 3
MAG-60 Introduction to Hospitality Management 3
MAG-200 Work Experience 1-2-3-4
BUS-48 International Management 3

MARKETING CONCENTRATION (MNR)  AS525/CE525
This program prepares individuals to undertake and manage the process of developing both consumer and business markets, and communicating product benefits to targeted market segments. This includes instruction in buyer behavior and dynamics, sales promotions, building customer relationships, effective pricing, marketing campaigns, principles of marketing research, strategic market planning, advertising methods, customer service, retailing, and applications for specific products and markets.

Program Learning Outcomes
In addition to outcomes for the Businesses Administration certificate, on successful completion of the Marketing concentration, students should be able to:
• Develop and implement marketing strategies.
• Develop a comprehensive marketing plan.
• Construct and implement a promotional program.
• Research and analyze consumer decision parameters.

Business Administration Major Core Requirements 18
Required for this concentration 3
MKT-20 Principles of Marketing 3
and
Select another 9 units from the following: 9
MKT-40 Advertising 3
MKT-41 Techniques of Selling 3
MKT-42 Retail Management 3
MKT-200 Work Experience 1-2-3-4
BUS-43 International Business-Marketing 3
BUS-51 Principles of E-Commerce 3
BUS-80 Principles of Logistics 3

REAL ESTATE CONCENTRATION (MNR)  AS527/CE527
This program prepares individuals to develop, buy, sell, appraise, and manage real property. This includes instruction in land use development policy, real estate law, real estate marketing procedures, agency management, brokerage, property inspection and appraisal, real estate investing, leased and rental properties, commercial real estate, and property management.

Program Learning Outcomes
In addition to outcomes for the Businesses Administration certificate, on successful completion of the Real Estate concentration, the student should be able to do the following:
• Demonstrate the ability to analyze ethical and procedural problems that arise in residential real estate sales transactions from the prospective of buyers, sellers, brokers, appraisers, lenders, and escrow officers.
• Discuss and evaluate real estate marketing and sales techniques.
• Discuss and calculate real estate taxes and solve basic real estate mathematics problems.
• Explain and evaluate methods of financing real estate purchases and securing loans with real estate.
• Demonstrate the ability to analyze the factors that affect real estate values.
• Discuss and evaluate real estate markets and trends.

Business Administration Major Core Requirements 18
Select another 12 units from the following: 12
RLE-80 Real Estate Principles 3
RLE-81 Real Estate Practices 3
RLE-82 Legal Aspects of Real Estate 3
RLE-83 Real Estate Finance 3
RLE-84 Real Estate Appraisal 3
RLE-85 Real Estate Economics 3
RLE-86 Escrow Procedures I 3
RLE-200 Work Experience 1-2-3-4

INSURANCE (R)  AS629/CE629
This program prepares individuals to manage risk in both personal and organizational settings to provide insurance and risk-aversion services to businesses, individuals, and other organizations. This includes instruction in casualty insurance and general liability, property insurance, employee benefits, social and health insurance, loss adjustment, underwriting, risk theory, and pension planning.
Certificate Program

Required Courses (30 units)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC-1A</td>
<td>Principles of Accounting, I</td>
<td>3</td>
</tr>
<tr>
<td>BUS-10</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS-18B</td>
<td>Business Law, II</td>
<td>3</td>
</tr>
<tr>
<td>BUS-22</td>
<td>Management Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUS-61</td>
<td>Introduction to Insurance</td>
<td>1</td>
</tr>
<tr>
<td>BUS-62</td>
<td>Personal Insurance Principles</td>
<td>3</td>
</tr>
<tr>
<td>BUS-63</td>
<td>Principles of Property and Liability Insurance</td>
<td>3</td>
</tr>
<tr>
<td>BUS-64</td>
<td>Commercial Insurance Principles</td>
<td>3</td>
</tr>
<tr>
<td>BUS-65</td>
<td>Insurance Codes and Ethics</td>
<td>1</td>
</tr>
<tr>
<td>BUS-66</td>
<td>Insurance Internship</td>
<td>1</td>
</tr>
<tr>
<td>CAT/CIS-98A</td>
<td>Introduction to Excel</td>
<td>1.5</td>
</tr>
<tr>
<td>CAT/CIS-98B</td>
<td>Advanced Excel</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS-1A</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or CAT/CIS-3</td>
<td>Computer Applications for Working Professionals</td>
<td>3</td>
</tr>
</tbody>
</table>

Associate of Science Degree

The Associate of Science Degree in Insurance will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

**INTERNATIONAL BUSINESS (R)** CE627

This program prepares individuals to manage international business and/or business operations. This includes instruction in the principles and processes of international business policies, business environments, foreign currency issues, foreign operations and management, foreign direct investment as well as other modes of entry, and applications for doing business in specific countries and markets.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Analyze the key elements of international business.
- Analyze the essential factors that determine the success of each element of international business.
- Explain the inter-relationship of each element of international business that are required for a successful international business operation.
- Develop the framework of an international business plan, incorporating understanding of general business concepts, international marketing mix, international cultures, international economics, and international politics.

Required Courses (15 units)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-10</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS-40</td>
<td>International Business-Principles</td>
<td>3</td>
</tr>
<tr>
<td>BUS-43</td>
<td>International Business-Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Group A Electives (Choose from list)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Group B Electives (Choose from list)</td>
<td></td>
<td>3</td>
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</table>

Group A Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-46</td>
<td>International Business-Intro to Import/ Exporting</td>
<td>3</td>
</tr>
<tr>
<td>BUS-48</td>
<td>International Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS-90</td>
<td>International Logistics</td>
<td>3</td>
</tr>
<tr>
<td>ECO/POL-6</td>
<td>Introduction to Political Economy</td>
<td>3</td>
</tr>
<tr>
<td>ECO-7</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>SPE-12</td>
<td>International Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Group B Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHI-11</td>
<td>Chinese Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>FRE-11</td>
<td>French Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>GER-11</td>
<td>German Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>ITA-11</td>
<td>Italian Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>JPN-11</td>
<td>Japanese Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>KOR-11</td>
<td>Korean Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>RUS-11</td>
<td>Russian Culture and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPA-11</td>
<td>Spanish Culture and Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

**OPERATIONS AND PRODUCTION MANAGEMENT (R)** CE833

This program prepares individuals to manage and direct the physical and/or technical functions of a firm or organization, particularly those relating to development, productions, and manufacturing. This includes instruction in principles of general management, manufacturing and production systems, plant management, equipment maintenance management, production control, industrial labor regulations and skilled trades supervision, strategic manufacturing policy, systems analysis, productivity analysis and cost control, and materials planning.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Analyze organizational effectiveness and establish productivity ratios.
- Evaluate a business environment and select an appropriate business improvement intervention to increase business effectiveness.
- Apply appropriate diagnostic tools to determine current business effectiveness and establish a plan for improvement.
- Analyze current business processes and develop a statistically valid graphical representation of performance and be able to predict future performance.
- Effectively select process improvement tools to analyze current business practices, determine problem areas and establish a plan to improve business performance.

Required Courses (15 units)  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAG-70</td>
<td>Introduction to Organization Development</td>
<td>3</td>
</tr>
<tr>
<td>MAG-71</td>
<td>Introduction to Productivity Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS/MAG-72</td>
<td>Introduction to Quantitative Methods for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-20</td>
<td>Business Math</td>
<td>3</td>
</tr>
<tr>
<td>BUS/MAG-47</td>
<td>Applied Business and Management Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUS-80</td>
<td>Principles of Logistics</td>
<td>3</td>
</tr>
<tr>
<td>MAG-44</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MAG-51</td>
<td>Elements of Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>
COMMUNITY INTERPRETATION

COMMUNITY INTERPRETATION (M)  AS557/CE557

The Community Interpretation program provides students with a foundation in the skills of Spanish-English translation and interpretation. Students train intensively in the three modes of interpreting: simultaneous, consecutive, and sight translation. Instruction covers general and literary translation and skills are applied in the contexts of medicine, law, and business. The program prepares individuals seeking interpreter certification and improves marketability for bilinguals who use Spanish and English in the workplace.

Certificate Program

Required Courses (18 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMI-61</td>
<td>Introduction to Spanish English Translation</td>
<td>3</td>
</tr>
<tr>
<td>CMI-71</td>
<td>Bilingual Interpretation for the Medical Professions</td>
<td>6</td>
</tr>
<tr>
<td>CMI-81</td>
<td>Bilingual Interpretation for the Legal Professions</td>
<td>6</td>
</tr>
<tr>
<td>CMI-91</td>
<td>Introduction to Translation and Interpretation for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Associate of Science Degree

The Associate of Science Degree in Community Interpretation will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

COMPUTER APPLICATIONS AND OFFICE TECHNOLOGY

This program prepares individuals to support business operations by using computer equipment to enter, process, and retrieve data for a wide variety of administrative purposes. This includes instruction in using basic business software and hardware; business computer networking; principles of desktop publishing; preparing mass mailings; compiling and editing spreadsheets; list maintenance; preparing tables and graphs; receipt control; and preparing business performance reports.

EXECUTIVE OFFICE MANAGEMENT (R)  AS639/CE639

Prepares individuals to support business operations by using computer equipment to enter, process, and retrieve data for a wide variety of administrative purposes. This includes instruction in using basic business software and hardware; business computer networking; principles of desktop publishing; preparing mass mailings; compiling and editing spreadsheets; list maintenance; preparing tables and graphs; receipt control; and preparing business performance reports.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

• Compose, key, and properly format various types of business correspondence and reports using a computer terminal.
• Prepare, proofread, and process correspondence (including labels and envelopes), memorandums, bills, statements, receipts, and copy information from one record to another.
• Outline and explain administrative procedures and policies to supervisory workers.
• Coordinate and direct records and budget preparation to aid executives.
• Schedule and document appointments, meetings, and travel arrangements.
• Index, code, sort, file, retrieve and maintain office/corporation documents, records, and reports.
• Compile and create simple statistical reports.

• Create properly formatted and grammatically correct business documents.

Required Courses (34 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT-1A</td>
<td>Business Etiquette</td>
<td>1</td>
</tr>
<tr>
<td>CAT/CIS-3</td>
<td>Computer Applications for Working Professionals</td>
<td>3</td>
</tr>
<tr>
<td>CAT-30</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>CAT-31</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CAT-40</td>
<td>Administrative Office Management</td>
<td>3</td>
</tr>
<tr>
<td>CAT-51</td>
<td>Intermediate Typewriting/Document Formatting</td>
<td>3</td>
</tr>
<tr>
<td>CAT-55</td>
<td>Applied Accounting/Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td>CAT-61</td>
<td>Professional Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CAT-62</td>
<td>Records Management</td>
<td>3</td>
</tr>
<tr>
<td>CAT/CIS-80</td>
<td>Word Processing: Microsoft Word for Windows</td>
<td>3</td>
</tr>
<tr>
<td>or CAT/CIS-84</td>
<td>Word Processing: WordPerfect for Windows</td>
<td>3</td>
</tr>
<tr>
<td>CAT/CIS-90</td>
<td>Microsoft Outlook</td>
<td>3</td>
</tr>
<tr>
<td>CAT/CIS-98A</td>
<td>Introduction to Excel</td>
<td>1.5</td>
</tr>
<tr>
<td>CAT/CIS-98B</td>
<td>Advanced Excel</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Associate of Science Degree

The Associate of Science Degree in Executive Office Management will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

ADMINISTRATIVE OFFICE PROFESSIONAL (NR)  CE637

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

• Compose, key, and properly format various types of business correspondence and reports using a computer terminal.
• Compose, key, and properly format spreadsheets, databases, and presentations using a computer terminal.
• Index, code, sort, and file correspondence and other business records.
• Compile and create simple statistical reports.
• Schedule appointments, meetings, and travel arrangements.

Required Courses (13.5 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT/CIS-3</td>
<td>Computer Applications for Working Professionals</td>
<td>3</td>
</tr>
<tr>
<td>CAT-31</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CAT-61</td>
<td>Professional Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CAT-62</td>
<td>Records Management</td>
<td>3</td>
</tr>
<tr>
<td>CAT/CIS-98A</td>
<td>Introduction to Excel</td>
<td>1.5</td>
</tr>
</tbody>
</table>
EXECUTIVE OFFICE PROFESSIONAL (R)  CE635
This certificate provides students with knowledge and skills to perform advanced administrative clerical duties related to assisting executives by coordinating office services and systems needed to run a company efficiently and smoothly.

Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
- Prepare memorandums outlining and explaining administrative procedures and policies to supervisory workers.
- Coordinate and direct records and budget preparation to aid executives.
- Schedule appointments, plan meetings and conferences.
- Create, file, retrieve, and maintain office/corporation documents, records, and reports.

Required Courses (13.5 units)  Units
CAT-40  Administrative Office Management  3
CAT/ACC-55  Applied Accounting/Bookkeeping  3
CAT/CIS-80  Word Processing: Microsoft Word for Windows  3
CAT/CIS-90  Microsoft Outlook  3
CAT/CIS-98B  Advanced Excel  1.5

LEGAL SECRETARIAL STUDIES (R)  CE611
Completion of this certificate provides students with the ability to prepare legal papers and correspondence, such as summonses, complaints, motions, and subpoenas. Students should be able to apply legal terminology and procedure to documents and legal research.

Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
- Compose, key, and enter data into computer using keyboard.
- Prepare correspondence (including labels and envelopes), bills, statements, receipts, and copy information from one record to another.
- Proofread records or forms.
- Create properly formatted and grammatically correct business documents.
- Answer telephone, and convey messages.
- Demonstrate familiarity with fundamental aspects of computer technology.

Required Courses (10 units)  Units
CAT-1A  Business Etiquette  1
CAT-30  Business English  3
CAT-51  Intermediate Typing/Document Formatting  3
CAT/CIS-93  Computers for Beginners  3

OFFICE FAST-TRACK (NR)  CE 812
This certificate prepares individuals to provide professional, entry-level skills, using basic business software, vocabulary and grammar fundamentals, and standards of behavior and etiquette in the workplace.

Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
- Apply business standards of acceptable behavior, communication, and etiquette to project a professional image.
- Apply grammar fundamentals, including proper sentence structure, punctuation, vocabulary, and spelling to all written documents.
- Apply introductory character, paragraph, and document formatting techniques to business documents using word processing software.
- Develop basic alpha/numeric keyboarding/touch typewriting skills at a minimum rate of 20 gross words a minute.
- Develop, create, and edit electronic presentations using industry-standard software.
- Apply the fundamental organizational concepts of digital filing to manage programs and files.
- Apply fundamental concepts of Internet browser software to navigate, search, retrieve, and send/receive information.
- Design and format, modify, query, and manipulate spreadsheets, charts and graphics, and lists (databases) using spreadsheet software.

Required Courses (12 units)  Units
CAT-1A  Business Etiquette  1
CAT-30A  Business English  3
CAT/CIS-34A  Introduction to Microsoft Word for Windows  1.5
CAT-53  Keyboarding/Typing Fundamentals  1
CAT/CIS-65  Introduction to Microsoft PowerPoint  1.5
CAT/CIS-93  Computers for Beginners  3
CAT/CIS-95A  Introduction to the Internet  1.5
CAT/CIS-98A  Introduction to Excel  1.5
VIRTUAL ASSISTANT (R)  CE677
This program prepares individuals to support business operations through on-line processes such as developing a business plan for an on-line web presence, creating a virtual office space on-line and marketing this office space.

Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Describe and use operating system software.
• Describe and use Word processing software.
• Write structured programs using C++, Java or Visual Basic.
• Describe and use graphics software to manipulate digital images.
• Describe and use database software to construct 3NF databases.
• Construct a visually appealing web site including database structures within the design.
• Design and use spreadsheets that have embedded equations/ formulas utilizing different data types.

Certificate Program
Required Courses (17.5 units) Units
BUS-30 Entrepreneurship and Small Business Management 3
CAT-30 Business English 3
CAT-57 Creating and Managing the Virtual Office 3
CAT/BUS-58 Marketing the Virtual Office 3
Electives (Choose from list below) 5.5
Electives (5.5 units) Units
ACC-65 Computerized Accounting 3
CAT-1A Business Etiquette 1
CAT/CIS-34A Introduction to Microsoft Word for Windows 1.5
CAT/CIS-34B Intermediate Microsoft Word for Windows 1.5
CAT/ACC-55 Applied Accounting/Bookkeeping 3
CAT/CIS-60 Introduction to Microsoft Access 1.5
CAT-62 Records Management 3
CAT/CIS-80 Word Processing: Microsoft Word for Windows 3
CAT/CIS-84 Word Processing: WordPerfect for Windows 3
CAT-88 Internships in Computer Applications and Office Technology 3
CAT/CIS-95A Introduction to the Internet 1.5
CAT/CIS-98A Introduction to Excel 1.5
CIS/CAT-98B Advanced Excel 1.5

Core courses will be offered online. Most electives will be offered in online or hybrid formats.

It is recommended that individuals interested in this field acquire office experience before deciding to work on their own as a virtual assistant.

COMPUTER INFORMATION SYSTEMS
This program focuses on computers, computing problems and solutions, and design of computer systems and user interfaces from a scientific perspective. This includes instruction in their principles of computation science, and computing theory; computer hardware design; computer development and programming; and application to a variety of end-use situations.

COMPUTER APPLICATIONS (MNR)  AS726/CE726
This program generally prepares individuals to perform basic data and text entry using standard and customized software products. This includes instruction in keyboarding skills, personal computer and work station operation, reading draft texts and raw data forms, and various interactive software programs used for tasks such as word processing, spreadsheets, databases, and others.

Associate of Science Degree
The Associate of Science Degree in Computer Information Systems, Computer Applications will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
Computer Programming (MNR)  AS728/CE728

This program focuses on the general writing and implementation of generic and customized programs to drive operating systems that generally prepare individuals to apply the methods and procedures of software design and programming to software installation and maintenance. This includes instruction in software design, low and high level languages and program writing; program customization and linking; prototype testing; troubleshooting; and related aspects of operating systems and networks.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Design structured programs using C++, Javascript, Java, or Visual Basic.
- Design and use object-oriented programs in one of these languages C++, Visual Basic, Java or PHP.
- Design and use advanced programming techniques in C++, or Visual Basic, or Java.

Required Courses (25.5 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS-1A Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-2 Fundamentals of Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-5 Fundamentals of Programming Logic Using C++</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-21 Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS-72A Introduction to Web Page Creation</td>
<td>1.5</td>
</tr>
<tr>
<td>Electives From Group 1</td>
<td>6</td>
</tr>
<tr>
<td>Electives From Group 2</td>
<td>6</td>
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</tbody>
</table>

Electives - Group 1 (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-12 PHP Dynamic Web Site Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-14A Web Programming: JavaScript</td>
<td>3</td>
</tr>
<tr>
<td>CIS-14B Web Programming: Active Server Pages</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-15A Visual Basic Programming: Objects</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-17A C++ Programming: Objects</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-18A Java Programming: Objects</td>
<td>3</td>
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Electives - Group 2 (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-11 Computer Programming using Assembler</td>
<td>3</td>
</tr>
<tr>
<td>CIS-15B Visual Basic Programming: Advanced Objects</td>
<td>3</td>
</tr>
<tr>
<td>CIS-15C Visual Basic Programming: Databases</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-17B C++ Programming: Advanced Objects</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-17C C++ Programming: Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-18B Java Programming: Advanced Objects</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-18C Java Programming: Data Structures</td>
<td>3</td>
</tr>
</tbody>
</table>

Associate of Science Degree

The Associate of Science Degree in Computer Information Systems, Computer Programming will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Simulation and Gaming: Game Art (MN)  AS739/CE739

This is a comprehensive program that puts equal emphasis on the artistic and technical sides of 3D modeling and animation. Courses cover material that will take the student through the production process from conceptualization to the final delivery of the rendered product. Curriculum spans traditional drawing techniques, life drawing and the technical fundamentals of 3D animation and modeling. Classes are taught in a state-of-the-art computer studio with the latest versions of industry-standard software packages.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Identify and differentiate the game development project lifecycle and associated documents such as the Pitch Document, Game Design Document, Technical Design Document, Art Production Plan, Project Plan and Game Prototype.
- Identify and employ proper use of color media and associated materials as well as define, outline, and discuss basic to complex color theory for 2D artwork.
- Create, manipulate, animate, and implement 3D art assets for real time interactive simulations or video games.

Required Courses (36 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-35 Introduction to Simulation and Game Development</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-38A Simulation and Gaming/3D Modeling</td>
<td>4</td>
</tr>
<tr>
<td>CIS/CSC-38B Simulation and Gaming/3D Animation</td>
<td>4</td>
</tr>
<tr>
<td>CIS/CSC-38C Simulation and Gaming/3D Dynamics and Rendering</td>
<td>4</td>
</tr>
<tr>
<td>CIS/CAT-78A Introduction to Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>ART-17 Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-18 Intermediate Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART-22 Basic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART-40 Figure Drawing</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Choose from list below)</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives (6 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-36 Introduction to Computer Game Design</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-37 Beginning Level Design for Computer Games</td>
<td>3</td>
</tr>
<tr>
<td>CIS-39 Current Techniques in Game Art</td>
<td>4</td>
</tr>
<tr>
<td>CIS/CAT-54A Introduction to Flash</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CAT-79 Introduction to Adobe Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>ART-23 Design and Color</td>
<td>3</td>
</tr>
<tr>
<td>ART-36 Computer Art</td>
<td>3</td>
</tr>
<tr>
<td>ART-44 Animation</td>
<td>3</td>
</tr>
</tbody>
</table>

Associate of Science Degree

The Associate of Science Degree in Simulation and Gaming: Game Art will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

**C++ Programming (NR) CE803**
Create structured and Object code in C++ for business, gaming, mathematical and scientific problems by identifying the information input requirements, synthesizing the algorithmic steps needed to transform the data input into the required output information, and organizing the output format to facilitate user communication.

**Certificate Program**

**Program Learning Outcomes**
Upon successful completion of this program, students should be able to:

- Create structured and Object code in C++ for business, gaming, mathematical and scientific problems by identifying the information input requirements, synthesizing the algorithmic steps needed to transform the data input into the required output information, and organizing the output format to facilitate user communication.

- Using C++ libraries create and run C++ programs that incorporate the following:
  - Multiprocessors
  - Multimedia
  - ODBC
  - SQL
  - Establish client/server relationship
- OR Using C++ libraries create and run C++ programs that incorporate data structures.

**Required Courses (12 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-5</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-17A</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-17B</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-17C</td>
<td>3</td>
</tr>
</tbody>
</table>

**CISCO Networking (R) CE810**

**Certificate Program**

**Program Learning Outcomes**
Upon successful completion of this program, students should be able to:

- Demonstrate an understanding of routing fundamentals, subnets and IP addressing schemes.
- Explain the command and steps required to configure router host tables, and interfaces within the RIP, EIGRP and OSPF protocols.
- Demonstrate an understanding of switching concepts and LAN design to include the use of Virtual LANs with LAN trunking configured by the Spanning Tree Protocol.
- Define and demonstrate the concepts of Cisco’s implementation of ISDN networking including WAN link options.

**Required Courses (16 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS-26A</td>
<td>4</td>
</tr>
<tr>
<td>CIS-26B</td>
<td>4</td>
</tr>
<tr>
<td>CIS-26C</td>
<td>4</td>
</tr>
<tr>
<td>CIS-26D</td>
<td>4</td>
</tr>
</tbody>
</table>

**E-Commerce (R) CE807**

The e-commerce certificate pattern readies the completer with the skills to design, market and implement an on-line business.

**Certificate Program**

**Program Learning Outcomes**
Upon successful completion of this program, students should be able to:

- Design, develop and implement a sound business plan that readily translates into an on-line business.
- Devise the web-presence to enhance the business as a well laid out web site using eye catching graphics including animation as necessary.
- Develop and implement sound business practices for the web-site addressing the technological, social, and ethical issues of an on-line business.

**Required Courses (15 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-10</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-21</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-25</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CAT-76A</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CAT-76B</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (Choose from list below)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-14A</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-15B</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-15C</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-17B</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-18B</td>
<td>3</td>
</tr>
</tbody>
</table>

**Java Programming (NR) CE809**

Completion of this certificate provides the student with skills a new programmer would need to obtain employment programming JAVA applications.

**Certificate Program**

**Program Learning Outcomes**
Upon successful completion of this program, students should be able to:

- Create structured and Object code in JAVA for business, gaming, mathematical and scientific problems by identifying the information input requirements, synthesizing the algorithmic steps needed to transform the data input into the required output information, and organizing the output format to facilitate user communication.
- Using JAVA libraries create and run JAVA programs that incorporate the following:
  - Multiprocessors
  - Multimedia
  - ODBC
  - SQL
  - Establish client/server relationship
- Using JAVA libraries create and run JAVA programs that incorporate data structures.

**Required Courses (12 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-5</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-18A</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-18B</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-18C</td>
<td>3</td>
</tr>
</tbody>
</table>
Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Develop mastery of digital image editing, photo correcting, manipulating images, and vector drawing.
- Create and edit: objects, freehand drawing objects.
- Import and work with graphic images of varying digital formats.
- Use Adobe InDesign to develop page design, page layout, including vector drawings and bitmap drawings.

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CAT-78A</td>
<td>Introduction to Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CAT-78B</td>
<td>Advanced Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CAT-79</td>
<td>Introduction to Adobe Illustrator</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CAT-81</td>
<td>Introduction to Desktop Publishing using Adobe InDesign</td>
<td>3</td>
</tr>
</tbody>
</table>

Relational Database Management Technology (R) CE816

Provides the skills necessary to present a view of data as a collection of rows and columns and manage these relational databases based on a variety of data models.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Present the data to the user as a set of relations.
- Provide relational operators to manipulate the data in tabular form.
- Use a modeling language to define the schema of each database hosted in the DBMS, according to the DBMS data model.
- Optimize data structures (fields, records, files and objects) to deal with very large amounts of data stored on a permanent data storage device.
- Create a database query language and report writer to allow users to interactively interrogate the database, analyze its data and update it according to the users privileges on data.
- Develop a transaction mechanism, that would guarantee the ACID properties, in order to ensure data integrity, despite concurrent user accesses and faults.

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-28A</td>
<td>MS Access Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-61</td>
<td>Introduction to Database Theory</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-62</td>
<td>Microsoft Access DBMS: Comprehensive</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-63</td>
<td>Introduction to Structured Query Language (SQL)</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CAT-91</td>
<td>Microsoft Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Visual Basic Programming (R) CE817

The successful student will be able to apply the principles of logical and programming concepts to design, create, test, debug, and implement specific Visual Basic solutions that incorporate a variety of typical Windows features as appropriate for typical gaming, business, scientific, and mathematics problems. Further, the student will either gain skills in object oriented programming, Office automation and Internet related applications or gain competence in developing database related applications.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Apply the principles of logical and programming concepts to develop specific Visual Basic solutions for gaming, business, scientific and mathematics problems.
- Design, create, test, debug, and implement Windows based applications in Visual Basic.
- Effectively incorporate a variety of Windows controls, multiple forms, graphics and multimedia, strings, arrays, files, objects and their properties and methods, as appropriate for a particular application.
- Design and create Visual Basic applications that make effective use of classes and class hierarchies, Internet related controls, Windows API, MS Office automation, and Active X controls, as appropriate for a particular application.
- OR Design and create Visual Basic applications that access, modify, and display external database data, allow validated user modifications of that data, and create professional reports from that data, as appropriate for a particular application.

Required Courses (12 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS/CSC-5</td>
<td>Fundamentals of Programming Logic using C++</td>
<td>3</td>
</tr>
<tr>
<td>CIS/CSC-15A</td>
<td>Visual Basic Programming: Objects</td>
<td>3</td>
</tr>
<tr>
<td>CIS-15B</td>
<td>Visual Basic Programming: Advanced Objects</td>
<td>3</td>
</tr>
<tr>
<td>CIS-15C</td>
<td>Visual Basic Programming: Databases</td>
<td>3</td>
</tr>
</tbody>
</table>
Web Master (MNR)

The Web Master certificate program prepares a student to be a valuable member of a professional web design and development team. The successful student will become a competent XHTML, CSS, and JavaScript coder, and be proficient enough in Dreamweaver to streamline the development cycle and effectively integrate all these technologies within a web site. Depending on the chosen emphasis, the student will also become more skilled at designing sites with web graphics and Flash animation and/or more skilled at developing web applications with programming in PHP, ASP and/or XML.

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Create valid, properly structured web pages using a variety of XHTML features to form a typical 5-10 page site.
- Create external style sheets that effectively control an entire web site’s formatting and layout.
- Use a variety of Dreamweaver features to design, create, test, upload and manage an accessible and standards compliant interactive web site that includes the use of templates, as appropriate.
- Use JavaScript to enhance a web site’s interactivity using the DOM.
- In addition, students should be able to do two or more of the following:
  - Use Photoshop to create and edit images for use on the Web, including photographs, logos, navigation buttons, background images, image maps, and web page design mockups (tracing images).
  - Use PHP to create data driven web page content, form validation and processing, and database manipulation.
  - Create well formed XML documents, effectively use XSL formatting, and have knowledge of XML’s applications on the Web.

Required Courses (13.5 units)

- CIS/CSC-14A Web Programming: JavaScript 3
- CIS-72A Introduction to Web Page Creation 1.5
- CIS-72B Intermediate Web Page Creation using Cascading Style Sheets (CSS) 1.5
- CIS/CAT-76B Introduction to DreamWeaver 3
- Electives (Choose from list below) 4.5

Electives (4.5 units)

- CIS/CSC-12 PHP Dynamic Web Site Programming 3
- CIS-14B Web Programming: Active Server Pages 3
- CIS/CAT-54A Introduction to Flash 3
- CIS/CAT-56A Designing Web Graphics 3
- CIS-72C Introduction to XML 1.5

CONSTRUCTION TECHNOLOGY

This program prepares individuals with the technical knowledge and skills in the area of building construction. This includes instruction enabling students to better understand and interpret construction codes, as well as clarifying processes and materials used in construction; and the basic physical laws which are used to formulate the prescriptive code regulations. Management and inspection skills are also examined.

CONSTRUCTION TECHNOLOGY (N)  AS532/CE532

Certificate Program

Student Learning Outcomes

Graduates will be able to identify and describe the materials and methods currently being employed in today’s construction industry. Graduates will be able to interpret the major construction codes currently adopted by the state, county, and city which regulate construction installations. Graduates will be able to evaluate the basic concepts of engineering and soil design as they relate to structures.

Required Courses (30 units)  Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON-63A</td>
<td>Uniform Building Codes and Ordinances</td>
<td>3</td>
</tr>
<tr>
<td>CON-64</td>
<td>Office Procedure and Field Inspection</td>
<td>3</td>
</tr>
<tr>
<td>CON-65</td>
<td>Plumbing Code</td>
<td>3</td>
</tr>
<tr>
<td>CON-66</td>
<td>National Electrical Code</td>
<td>3</td>
</tr>
<tr>
<td>CON-67</td>
<td>Mechanical Codes</td>
<td>3</td>
</tr>
<tr>
<td>CON-68</td>
<td>Simplified Engineering for Building Inspectors</td>
<td>3</td>
</tr>
<tr>
<td>CON-70</td>
<td>Fundamentals of Soil Technology</td>
<td>3</td>
</tr>
<tr>
<td>CON-71</td>
<td>Energy Conservation Standards</td>
<td>1.5</td>
</tr>
<tr>
<td>CON-72</td>
<td>California State Accessibility Standards</td>
<td>1.5</td>
</tr>
<tr>
<td>Electives</td>
<td>(Choose from list below)</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives

- CON-60 Introduction to Construction 3
- CON-61 Materials of Construction 3
- CON-62 Blueprint Reading 3
- CON-63BCD Analysis of Revisions to the Uniform Building Code 3-3-3
- CON-73 Project Planning for Site Construction 3
- CON-200 Construction Work Experience 1-2-3-4

Associate of Science Degree

The Associate of Science Degree in Construction Technology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Student Learning Outcomes

In addition to achieving the student learning outcomes for the construction technology certificate program, students who complete the Associate of Science Degree in Construction Technology will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.
COSMETOLOGY

This program prepares individuals to provide professional cosmetic services in salons, resorts, casinos, dermatologist’s offices and other related industry establishments. This includes courses in hair design, hair sculpting, chemical, esthetic and other cosmetic services, safety and sanitation, management, customer service, and preparation for practicing as licensed cosmetologist in the state of California. Courses in applicable professional labor laws and regulations in the cosmetology industry, physiology, anatomy, electricity and ergonomics are also covered in depth. Emphasis is placed on passing state licensing exam and industry entry skills.

COSMETOLOGY BUSINESS ADMINISTRATION

Certificate Program

Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Deduce valid conclusions, compare and contrast viable techniques and apply principles in preparation of the California State Board of Barbering and Cosmetology practical and written exam.
• Identify and analyze concepts leading to synthesis of theory for the state board written exam.
• Produce a business plan and portfolio.
• Demonstrate entry-level industry skills in a clinic laboratory setting.
• Demonstrate workplace behaviors (“soft skills”) necessary for success in the cosmetology industry.

Required Courses (47.5 units) Units
COS-60A Beginning Cosmetology Concepts 11
COS-60B Level II Cosmetology Concepts 10.5
COS-60C Level III Cosmetology Concepts 10
COS-60D Level IV Cosmetology Concepts 8
COS-60E Level V Cosmetology Concepts 8

Evening students may take the following courses to meet the requirements for COS-60E
COS-60E1 Level V Cosmetology Concepts 4
COS-60E2 Level V Cosmetology Concepts 4

NOTE: Completion of cosmetology courses (each with a grade of “C” or better) entitles the student to the Cosmetology Certificate and eligibility for the State Board of Cosmetology licensing examination.

NOTE: Transfer students possessing eligible cosmetology hours of applied effort will be placed in the appropriate section with the approval of the department chair.

Associate of Science Degree

The Associate of Science Degree in Cosmetology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

COSMETOLOGY BUSINESS ADMINISTRATION

Certificate Program

Major Core Requirements
Required Courses (9 units) Units
ACC-1A Principles of Accounting, I 3
BUS-10 Introduction to Business 3
CIS-1A Introduction to Computer Information Systems 3
Major Concentration Requirements 12

NOTE: The Cosmetology Business Administration Certificate will be awarded to graduates of the Cosmetology Program, or Cosmetology License holders upon successful completion of all Cosmetology Business Administration Major Core Requirements and 12 units selected from the Major Concentration Requirements (total of 21 units) in order to receive the certificate in the concentration area of their choice.

In addition to the Cosmetology Business Administration Major Core Requirements of 9 units noted above, choose another 12 units from one of the following concentrations:
Entrepreneurial Concentration
Management and Supervision Concentration

ENTREPRENEURIAL CONCENTRATION (R) AS537/CE537

Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Construct and implement a promotional program.
• Research and analyze consumer decision parameters.
• Apply knowledge of general business practices to specific cosmetology business situations.
• Analyze and solve problems associated with the calculation and reporting of payroll.
• Effectively communicate in small work groups.

Select another 12 units from the following:
ACC-1B Principles of Accounting II 3
ACC-62 Payroll Accounting 3
ART-39 Design and Graphics 3
BUS-20 Business Mathematics 3
BUS-30 Entrepreneurship and Small Business Management 3
MKT-20 Principles of Marketing 3
MKT-30 Fashion Merchandising 3
MKT-40 Advertising 3
MKT-41 Techniques of Selling 3
MKT-42 Retail Management 3
CAT-30 Business English 3

MANAGEMENT AND SUPERVISION (R) AS535/CE535

Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Anticipate and solve problems relative to supervising personnel.
• Apply human resource management principles in the successful operation of a business.
• Effectively describe and apply basic management practices.
• Effectively communicate in small work groups.

Select another 12 units from the following:
ACC-1B Principles of Accounting II 3
ACC-38 Managerial Accounting 3
BUS-18A Business Law I 3
BUS-18B Business Law II 3
BUS-22 Management Communications 3
BUS/MAG-47 Applied Business and Management Ethics 3
MAG-44 Principles of Management 3
MAG-51 Elements of Supervision 3
MAG-53 Human Relations 3
MAG-56 Human Resources Management 3
Associate of Science Degree

The Associate of Science Degree in Cosmetology Business Administration will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree.

COSMETOLOGY INSTRUCTOR TRAINING (R) CE675

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Create and demonstrate lesson planning, oral presentations, use methods of evaluations, test construction and use of audio/visual aids.
- Synthesize information and apply principles to solve instructional and classroom issues.
- Construct exams using multiple choice, true or false, identification, matching, essay, research and performance methods and identify the methodology of each test mechanism.
- Demonstrate methodologies required for student success used in the classroom environment.

Required Courses (15 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COS-61A</td>
<td>Level I Cosmetology Instructor Concepts</td>
<td>7.5</td>
</tr>
<tr>
<td>COS-61B</td>
<td>Level I Cosmetology Instructor Concepts</td>
<td>7.5</td>
</tr>
</tbody>
</table>

ESTHETICIAN (R) CE673

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Deduce valid conclusions, compare and contrast viable techniques and apply principles in preparation of the California State Board of Barbering and Cosmetology practical and written exam.
- Identify and analyze concepts leading to synthesis of theory for the state board written exam.
- Produce a business plan and portfolio.
- Demonstrate entry-level industry skills in a clinic laboratory setting.
- Demonstrate workplace behaviors (“soft skills”) necessary for success in the cosmetology industry.

Required Courses (17 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COS-62A</td>
<td>Level I Esthetician Concepts</td>
<td>8.5</td>
</tr>
<tr>
<td>COS-62B</td>
<td>Level II Esthetician Concepts</td>
<td>8.5</td>
</tr>
</tbody>
</table>

Completion of esthetician courses (each with a grade of “C” or better) entitles the student to the Esthetician certificate and eligibility for the State Board of Barbering and Cosmetology licensing exam. Transfer students possessing eligible esthetician hours of applied effort will be placed in the appropriate section with the approval of the department chair.

CULINARY ARTS

This program prepares individuals to provide professional chef and related hospitality services in restaurants and other commercial food establishments. This includes instruction in recipe and menu planning, preparing and cooking of foods, supervising and training kitchen assistants, the management of food supplies and kitchen resources, including cost and inventory controls, aesthetics of food preparation and presentation, as well as training in a wide variety of cuisines and culinary techniques.

CULINARY ARTS (R) AS561/CE561

Certificate Program

Program Learning Outcomes

Upon successful completion of this certificate program, students should be able to:

- Demonstrate learned customer service, wait staffing and point-of-sale system knowledge in a working dining room setting.
- Employ proper safety and sanitation principles to the receiving, storage, preparation, and service of food.
- Formulate menus utilizing menu design techniques, conversions of written recipes, and calculations of food costing and menu pricing.
- Demonstrate practical and theoretical knowledge of classical and contemporary cooking methods for both hot food and baking/pastry arts.
- Demonstrate practical knowledge of classical knife cuts.
- Apply learned cooking methods to international cuisines.
- Demonstrate proficiency in piping skills, mold usage, plate presentation, and other artistic techniques used in the garde manger kitchen as well as hot food, cold food and pastry presentations.

Required Courses (27 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUL-36</td>
<td>Introduction to Culinary Arts</td>
<td>8</td>
</tr>
<tr>
<td>CUL-37</td>
<td>Intermediate Culinary Arts</td>
<td>8</td>
</tr>
<tr>
<td>CUL-38</td>
<td>Advanced Culinary Arts</td>
<td>8</td>
</tr>
<tr>
<td>CUL-200</td>
<td>Culinary Arts Work Experience</td>
<td>1-2-3-4</td>
</tr>
<tr>
<td>Electives</td>
<td>(Choose from list below)</td>
<td>2</td>
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</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUL-20</td>
<td>Fundamentals of Baking</td>
<td>2</td>
</tr>
<tr>
<td>CUL-22</td>
<td>Cake Decorating I</td>
<td>2</td>
</tr>
</tbody>
</table>

Associate of Science Degree

The Associate of Science Degree in Culinary Arts will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
DENTAL ASSISTANT

This program prepares individuals to provide patient care, take dental radiographs (x-ray), prepare patients and equipment for dental procedures, as well as discharge office administrative functions under the supervision of dentists and dental hygienists. This includes instruction in dental record-keeping, general office duties, reception and patient intake, scheduling, equipment maintenance and sterilization, dental radiography, pre and post-operative patient care and instruction, chair-side assisting, taking tooth and mouth impressions, and supervised practice.

DENTAL ASSISTANT (M)    
AS621/CE621

Certificate Program

Required Courses (42 units)   Units

Fall:
DEA-10  Introduction to Dental Assisting and Chairside assisting  4
DEA-20  Infection Control for Dental Assistants  2
DEA-21  Introduction to Radiology for Dental Assistants  2
DEA-22  Introduction to Supervised Externships  1.5
DEA-23  Introduction to Dental Sciences  3
DEA-24  Dental Materials for the Dental Assistant  2
ENG-50  Or Higher +  4
Mat-64  Or Higher +  3

Winter:
DEA-30  Intermediate Chairside Dental Assisting  2
DEA-31  Radiology for Dental Assistants  1.5
DEA-32  Intermediate Supervised Externships  1

Spring:
DEA-40A  Advanced Chairside Surgical Dental Assistant*  4
DEA-40B  Advanced Chairside Orthodontic Dental Assistant*  3.5
DEA-40C  Advanced Chairside Restorative Dental Assistant*  4.5
DEA-41  Dental Office Procedures  4

+ These courses may be taken prior to entrance into the Dental Assistant Program or the equivalent can be met through testing.

*Students must take a minimum of DEA-40C and either DEA-40A or DEA-40B to complete the certificate program.

Associate of Science Degree

The Associate of Science Degree in Dental Assisting will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

DENTAL HYGIENE

This program prepares individuals to clean teeth and apply preventive materials; provide oral health education and treatment counseling to patients; identify oral pathologies and injuries; and manage dental hygiene practices. This includes instruction in dental anatomy, microbiology, and pathology; dental hygiene theory and techniques; cleaning equipment operation and maintenance; dental materials; radiology; patient education and counseling; office management; supervised clinical training; and professional standards.

DENTAL HYGIENE (M)    
AS724


Associate of Science Degree

Required Course (60.5 units)   Units

First Semester courses:
DEH-10A  Pre-Clinic Dental Hygiene #1  2.5
DEH-11  Principles of Dental Hygiene  2
DEH-12A  Principles of Oral Radiology  1
DEH-12B  Oral Radiology Laboratory  1
DEH-13  Infection Control in Dentistry  1
DEH-14  Systems Analysis of Dental Anatomy Morphology, Histology, Embryology  3.5
DEH-15  Head and Neck Anatomy  2
DEH-16  Preventive Dentistry  1
DEH-17  General Pathology  2

First Winter Intersession Courses:
DEH-10B  Pre-Clinic Dental Hygiene #2  1
DEH-19  Pain Control  1.5

Second Semester Courses:
DEH-20A  Clinical Dental Hygiene #1  3
DEH-21  Clinical Seminar #1  1
DEH-22  Oral Radiology Interpretation  1
DEH-23  Introduction to Periodontology  2
DEH-24  Ethics  1
DEH-25  Medical/Dental Emergencies  1
DEH-26  Dental Treatment of Geriatric and Medically Compromised  2
DEH-27  Oral Pathology  3
DEH-28  Basic and Applied Pharmacology  2

Summer Session Courses:
DEH-20B  Clinical Dental Hygiene #2  1

Third Semester Courses:
DEH-30A  Clinical Dental Hygiene #3  3.5
DEH-31  Clinical Seminar #2  1
DEH-32  Dental Materials  2.5
DEH-33  Periodontology  1
DEH-34  Community Dental Health Education #1  1
DEH-35  Community Dental Health Education Practicum #1  1
DEH-36  Research Methodology  2
DEH-37  Nutrition in Dentistry  1
DRAFTING TECHNOLOGY

This program prepares individuals to apply technical skills and advanced computer software and hardware to the creation of graphic representations and simulation in support of drafting and engineering design problems typical of industry. This includes instruction in engineering graphics, computer-aided drafting (CAD), two-dimensional and three-dimensional engineering design, solids modeling, rapid prototyping and engineering animation.

DRAFTING TECHNOLOGY (N) AS539/CE539
Certificate Program

Student Learning Outcomes
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of drafting technology by completing a portfolio, which may include sketches, AutoCAD, models, demonstration of the seven stages of movement and rapid prototyping.

Required Courses (24-25 units) Units
ENE-21 Drafting 3
ENE-22 Engineering Drawing 3
ENE-28 Technical Design 3
ENE-30 Computer Aided Drafting (CAD) 3
ENE-31 Computer Aided Drafting and Design 3
ENE-51 Blueprint Reading 2
ENE-52 Geometric Dimensioning and Tolerancing 2
ENE-60 Math for Engineering Technology 3
Electives (Choose from list below) 2-3

Electives
ARE-24 Architectual Drafting 3
ENE-23 Descriptive Geometry 3
ENE-26 Civil Engineering Drafting 3
ELE/ENE-27 Technical Communication 3
ENE-42 SolidWorks I 3
WEL-34 Metal Joining Processes 2

Associate of Science Degree
The Associate of Science Degree in Drafting Technology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

DENTAL LABORATORY TECHNOLOGY

This program provides individuals, under the supervision of dentists, to design and construct dental prostheses such as caps, crowns, bridges, dentures, splints, and orthodontic appliances. This includes instruction in dental anatomy, dental materials, ceramics technology, impressions, complete dentures, partial dentures, orthodontics, crowns and bridges, sculpture, bonding and assembly techniques, and equipment operation.

DENTAL LABORATORY TECHNOLOGY (M) AS723/CE723
Certificate Program

<table>
<thead>
<tr>
<th>Required Courses (37 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN-70 Introduction to Dental Technology</td>
<td>2</td>
</tr>
<tr>
<td>DEN-71 Dental Morphology</td>
<td>3</td>
</tr>
<tr>
<td>DEN-72A Dental Materials I</td>
<td>1</td>
</tr>
<tr>
<td>DEN-72B Dental Materials II</td>
<td>1</td>
</tr>
<tr>
<td>DEN-74 Dental Anatomy and Physiology</td>
<td>1</td>
</tr>
<tr>
<td>DEN-75A Complete Denture Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>DEN-75B Complete Denture Techniques II</td>
<td>3</td>
</tr>
<tr>
<td>DEN-77A Removable Partial Denture Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>DEN-77B Removable Partial Denture Techniques II</td>
<td>3</td>
</tr>
<tr>
<td>DEN-79A Crown and Bridge Techniques I</td>
<td>3</td>
</tr>
<tr>
<td>DEN-79B Crown and Bridge Techniques II</td>
<td>3</td>
</tr>
<tr>
<td>DEN-82 Dental Laboratory Management</td>
<td>1</td>
</tr>
<tr>
<td>DEN-85 Orthodontic/Pedodontic Techniques</td>
<td>3</td>
</tr>
<tr>
<td>DEN-89A Dental Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>DEN-89B Dental Ceramics II</td>
<td>3</td>
</tr>
<tr>
<td>DEN-200 Work Experience</td>
<td>1-2-3-4</td>
</tr>
</tbody>
</table>

Associate of Science Degree
The Associate of Science Degree in Dental Laboratory Technology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
EARLY CHILDHOOD EDUCATION

This program focuses on the theory and practice of learning and teaching children from birth to age eight; the basic principles of educational and developmental psychology; the art of observing, teaching and guiding young children; planning and administration of developmentally appropriate inclusive educational activities; school safety and health issues; and the social and emotional foundations of early care and education.

EARLY CHILDHOOD EDUCATION (MNR) AS544/CE544
Certificate Program

Program Learning Outcomes

• Develop, implement, and evaluate developmentally appropriate thematic and emergent curriculum for children who are typical and atypical in the areas of physical, cognitive, language, creative and social/emotional growth.
• Develop and apply appropriate practices and effective techniques that respect the cultural diversity of young children and their families.
• Integrate an educational philosophy into classroom practices that reflects a personal belief supportive of theoretical principles regarding how and why young children should receive early educational experiences.
• Develop and implement a system of ongoing observational practices that contributes toward the creation of learning environments conducive to the emergence of curriculum that adapts to the evolving needs of children.

Required Courses (31 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAR-19</td>
<td>Observation and Assessment Methods in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EAR-20</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>EAR-22</td>
<td>Early Childhood Programs and Career Opportunities</td>
<td>3</td>
</tr>
<tr>
<td>EAR-24</td>
<td>Creative Activities through Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EAR-26</td>
<td>Child Health</td>
<td>3</td>
</tr>
<tr>
<td>EAR-28</td>
<td>Principles and Practices of Early Childhood Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>EAR-30</td>
<td>Internship in Early Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>EAR-42</td>
<td>Child, Family and Community Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>(Choose from list below)</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives (6 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-3</td>
<td>Art for Teachers</td>
<td>3</td>
</tr>
<tr>
<td>DAN-5</td>
<td>Introduction to Movement Education for Preschool and Elementary Children</td>
<td>3</td>
</tr>
<tr>
<td>EAR-31</td>
<td>Home Visiting</td>
<td>3</td>
</tr>
<tr>
<td>EAR-33</td>
<td>Caring for Infants and Toddlers in Group Settings</td>
<td>3</td>
</tr>
<tr>
<td>EAR-34</td>
<td>Curriculum Activities for Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>EAR-37</td>
<td>School Age Child Care</td>
<td>3</td>
</tr>
<tr>
<td>EAR-38</td>
<td>Adult Supervision in ECE/CD Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>EAR-40</td>
<td>Introduction to Infants and Children with Disabilities and Other Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>EAR-41</td>
<td>Internship in Early Intervention/Special Education</td>
<td>4</td>
</tr>
<tr>
<td>EAR-43</td>
<td>Children with Challenging Behaviors</td>
<td>3</td>
</tr>
<tr>
<td>EAR-44</td>
<td>Administration Of Early Childhood Programs I</td>
<td>3</td>
</tr>
<tr>
<td>EAR-45</td>
<td>Administration Of Early Childhood Programs II</td>
<td>3</td>
</tr>
<tr>
<td>EAR-47</td>
<td>Childhood Stress and Trauma</td>
<td>3</td>
</tr>
<tr>
<td>EDU-1</td>
<td>Teaching in the Multicultural Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDU-3</td>
<td>Introduction to Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDU-4</td>
<td>Introduction to Literacy/Service Learning</td>
<td>1</td>
</tr>
<tr>
<td>ENG-30</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUS-1</td>
<td>Teaching Music to Young Children</td>
<td>3</td>
</tr>
<tr>
<td>PHP-6</td>
<td>Introduction to Physical Education for Preschool and Elementary Children</td>
<td>3</td>
</tr>
<tr>
<td>PHP-30</td>
<td>First Aid and CPR</td>
<td>3</td>
</tr>
<tr>
<td>SOC-45</td>
<td>Childhood and CPR</td>
<td>3</td>
</tr>
</tbody>
</table>

Child Development Permit

The Early Childhood Education program provides an educational and practical foundation for students interested in working with children from infancy through third grade. In addition to theoretical principles, the curriculum offers practical skills and on-site training that will prepare students for employment in the field of Early Childhood Education. The program leads to certificates in Early Childhood Education and/or an Associate of Science Degree. The EAR courses will also fulfill the required child development coursework for the state issued Child Development Permit. Information regarding this permit and/or the Early Childhood Education Certificates are available from the Early Childhood Education Department.

Upon completion of the requirements for the certificate program and 16 units of special courses in general education, the student has fulfilled the course requirements for the Child Development Permit, teacher level. See the State guidelines for experience qualifications and additional levels. For child development interactive video information, see www.rcc.edu/cdpermit.

Associate of Science Degree

The Associate of Science Degree in Early Childhood Education will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

EARLY CHILDHOOD INTERVENTION AS601/CE601
Assistant (MNR) Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

• Demonstrate an understanding of family function and structure, along with familial need for information and support that respects values diverse cultures, values, beliefs and behaviors.
• Demonstrate basic knowledge of laws and regulations pertaining to and protecting children with disabilities and their families. Understand and identify the process of accessing community agencies, referral systems and procedures for specialized support, specialized documents, resources and placement options.
• Describe the typical child development milestones of children, birth to adolescence, and identify the strengths and special needs of the child in the context of his/her family, early childhood classroom, or early intervention setting.
• Describe the developmental assessment process and outline its role in identifying, planning and intervening for a child with special needs and his/her family, including the process of curriculum development.
• Demonstrate an understanding of the purpose and intent of an inclusive environment that supports the whole child while meeting the individual needs of children with disabilities.
**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Identify the patterns of development for children ages zero to three in the areas of the physical, cognitive and psychosocial domains.
- Understand and implement health and safety practices in environmental concerns and in individual child cleansing and feeding routines.
- Create and maintain an environment of care and learning specific to young infants and newly mobile children.
- Select equipment and materials conducive to the physical, cognitive and psychosocial needs of infants and toddlers.
- Plan and implement a curriculum based on a blend of routine and play activities.
- Use observation to assess child development, curriculum success, and environmental standards of quality, and then implement program adjustments based on assessment outcomes.

**Required Courses (31 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAR-20</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>EAR-24</td>
<td>Creative Activities through Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EAR-28</td>
<td>Principles and Practices of Early Childhood Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>EAR-33</td>
<td>Caring for Infants and Toddlers in Group Settings</td>
<td>3</td>
</tr>
<tr>
<td>EAR-40</td>
<td>Introduction to Infants and Children with Disabilities and Other Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>EAR-41</td>
<td>Internship in Early Intervention/Special Education</td>
<td>4</td>
</tr>
<tr>
<td>EAR-42</td>
<td>Child, Family and Community Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EAR-43</td>
<td>Children with Challenging Behaviors</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>(Choose from list below)</td>
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</tr>
</tbody>
</table>

**Electives (6 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
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<td>EAR-19</td>
<td>Observation and Assessment Methods in Early Childhood Education</td>
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<td>EAR-26</td>
<td>Child Health</td>
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</tr>
<tr>
<td>EAR-44</td>
<td>Administration of Early Childhood Programs I</td>
</tr>
<tr>
<td>EAR-47</td>
<td>Childhood Stress and Trauma</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Early Childhood Intervention Assistant will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

**EARLY CHILDHOOD EDUCATION / CE795**

**ASSISTANT TEACHER (MNR)**

**Certificate Program**

**Program Learning Outcomes**

- Demonstrate an understanding of the theoretical perspectives in human development and education.
- Appraise the role of the child as an active learner.
- Integrate child growth and development into practical and meaningful applications.

**Required Courses (6 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete two courses from the list below:</td>
<td></td>
</tr>
<tr>
<td>EAR-20</td>
<td>Child Development</td>
</tr>
<tr>
<td>EAR-24</td>
<td>Creative Activities through Curriculum</td>
</tr>
<tr>
<td>EAR-28</td>
<td>Principles and Practices of Early Childhood Education Programs</td>
</tr>
<tr>
<td>EAR-42</td>
<td>Child, Family and Community Dynamics</td>
</tr>
</tbody>
</table>

**EARLY CHILDHOOD EDUCATION / CE797**

**TWELVE CORE UNITS (MNR)**

**Certificate Program**

**Program Learning Outcomes**

- Demonstrate an understanding of the theoretical perspectives in human development and education.
- Appraise the role of the child as an active learner.
- Integrate child growth and development into practical and meaningful applications.

**Required Courses (12 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAR-20</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>EAR-33</td>
<td>Caring for Infants and Toddlers in Group Settings</td>
<td>3</td>
</tr>
<tr>
<td>EAR-34</td>
<td>Curriculum Activities for Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>EAR-35</td>
<td>Internship in Infant and Toddler Care</td>
<td>3</td>
</tr>
</tbody>
</table>

**INFLANT AND TODDLER SPECIALIZATION (MNR) CE 681**

**Certificate Program**

**Program Learning Outcomes**

- Identify the patterns of development for children ages zero to three in the areas of the physical, cognitive and psychosocial domains.
- Understand and implement health and safety practices in environmental concerns and in individual child cleansing and feeding routines.
- Create and maintain an environment of care and learning specific to young infants and newly mobile children.
- Select equipment and materials conducive to the physical, cognitive and psychosocial needs of infants and toddlers.
- Plan and implement a curriculum based on a blend of routine and play activities.
- Use observation to assess child development, curriculum success, and environmental standards of quality, and then implement program adjustments based on assessment outcomes.

**Required Courses (12 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAR-20</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>EAR-33</td>
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<td>3</td>
</tr>
<tr>
<td>EAR-34</td>
<td>Curriculum Activities for Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>EAR-35</td>
<td>Internship in Infant and Toddler Care</td>
<td>3</td>
</tr>
</tbody>
</table>

**EDUCATION PARAPROFESSIONAL AS603/CE603**

**Certificate Program**

**Required Courses (32-34 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU-1</td>
<td>Teaching in the Multicultural Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDU-3</td>
<td>Introduction to Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDU-4</td>
<td>Introduction to Literacy/Service Learning</td>
<td>1</td>
</tr>
<tr>
<td>EAR-20</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>ENG-1A</td>
<td>English Composition</td>
<td>4</td>
</tr>
<tr>
<td>or ENG-50</td>
<td>Basic English Composition</td>
<td>4</td>
</tr>
<tr>
<td>or HIS-6</td>
<td>Political and Social History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>or HIS-7</td>
<td>Political and Social History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>MAT-52</td>
<td>Elementary Algebra</td>
<td>4</td>
</tr>
<tr>
<td>SPE-1</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>or SPE-9</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>(May include, but not limited to those listed below)</td>
<td></td>
</tr>
</tbody>
</table>

M - Moreno Valley College  N - Norco College  R - Riverside City College
Associate of Science Degree
The Associate of Science Degree in Electronics Computer Systems will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Student Learning Outcomes
In addition to achieving the student learning outcome for the electronics computer systems certificate program, students who complete the Associate of Science Degree in Electronics Computer Systems will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.

Electronics Technology (N) AS546/CE546 Certificate Program

Student Learning Outcomes
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of electronics technology by completing a design and construction project that utilizes analog power and signal processing circuitry, as well as digital hardware and software, to perform specific tasks according to a project framework. As part of this project, students will include wireless, bidirectional communications, proper selection and use of measurement equipment, good test procedures, circuit analysis, simulation tools and troubleshooting techniques.

Required Courses (28 units)

- ELE-21 DC-AC Electronics 4
- ELE-23 Electronics Devices and Circuits 4
- ELE-25 Digital Techniques 4
- ELE-26 Microprocessors and Microcontrollers 4
- ELE/ENE-27 Technical Communication 3
- ELE-36 Advanced Microprocessors 4
- ELE-38 Computer Systems Troubleshooting 4
- ELE-39 PCM and Digital Transmission 3
- ELE-40 Fiber Optic Basics 3
- Electives (Choose from list below) 9

Electives
- CIS/CSC-5 Fundamentals of Programming Logic using C++ 3
- CIS/CSC-17A C++ Programming: Objects 3
- CIS/CSC-17B C++ Programming: Advanced Objects 3
- ELE-22 Passive Circuit Analysis 3
- ELE-24 Active Circuit Analysis 3
- ELE-200 Electronics Work Experience 1-2-3-4
- ENE-22 Engineering Drawing 3
- ENE-31 Computer-Aided Drafting and Design 3
- ENE-60 Math for Engineering Technology 3
- MAN-60 Hydraulic and Pneumatic Systems 3
- MAN-75A Robotic Systems 4

Associate of Science Degree
The Associate of Science Degree in Electronics Technology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
Student Learning Outcomes
In addition to achieving the student learning outcome for the electronics technology certificate program, students who complete the Associate of Science Degree in Electronics Technology will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

**ANALOG AND DIGITAL MICROELECTRONICS (N) CE831**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (15 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-23 Electronics Devices and Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELE-24 Active Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ELE-25 Digital Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ELE-26 Microprocessors and Microcontrollers</td>
<td>4</td>
</tr>
</tbody>
</table>

**ANALOG ELECTRONICS, ANALYSIS AND DOCUMENTATION (N) CE834**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (15 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-22 Passive Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ELE-23 Electronics Devices and Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELE-24 Active Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ELE/ENE-27 Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ELE-28 Automated Electronics Design and Documentation Tools</td>
<td>2</td>
</tr>
</tbody>
</table>

**ANALOG ELECTRONICS TECHNOLOGY (N) CE835**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (11 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10 Survey of Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-21 DC-AC Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-23 Electronics Devices and Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELE-24 Active Circuit Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**DIGITAL ELECTRONICS TECHNOLOGY (N) CE837**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (11 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-25 Digital Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ELE-26 Microprocessors and Microcontrollers</td>
<td>4</td>
</tr>
<tr>
<td>ELE-36 Advanced Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELE-39 PCM and Digital Transmission</td>
<td>3</td>
</tr>
</tbody>
</table>

**DIGITAL TECHNOLOGY AND DOCUMENTATION (N) CE839**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (16 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10 Survey of Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-21 DC-AC Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-25 Digital Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ELE/ENE-27 Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ELE-28 Automated Electronics Design and Documentation Tools</td>
<td>2</td>
</tr>
<tr>
<td>ELE-39 PCM and Digital Transmission</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTRONIC CIRCUIT ANALYSIS (N) CE836**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (10 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10 Survey of Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-21 DC-AC Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-22 Passive Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ELE-24 Active Circuit Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTRONIC COMMUNICATIONS (N) CE838**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (15 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10 Survey of Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE/ENE-27 Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ELE-28 Automated Electronics Design and Documentation Tools</td>
<td>2</td>
</tr>
<tr>
<td>ELE-32 FCC Radiotelephone License Exam Preparation</td>
<td>3</td>
</tr>
<tr>
<td>ELE-39 PCM and Digital Transmission</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTRONICS DOCUMENTATION (N) CE844**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (9 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10 Survey of Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-21 DC-AC Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE/ENE-27 Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ELE-28 Automated Electronics Design and Documentation Tools</td>
<td>2</td>
</tr>
</tbody>
</table>

**GENERAL ELECTRONICS CORE (N) CE847**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (16 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10 Survey of Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-23 Electronics Devices and Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELE-25 Digital Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ELE-26 Microprocessors and Microcontrollers</td>
<td>4</td>
</tr>
</tbody>
</table>

**MICROCOMPUTER TECHNOLOGY (N) CE848**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (12 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-26 Microprocessors and Microcontrollers</td>
<td>4</td>
</tr>
<tr>
<td>ELE-36 Advanced Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELE-38 Computer Systems Troubleshooting</td>
<td>4</td>
</tr>
</tbody>
</table>

**MICROPROCESSOR TECHNOLOGY (N) CE845**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (12 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-25 Digital Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ELE-26 Microprocessors and Microcontrollers</td>
<td>4</td>
</tr>
<tr>
<td>ELE-36 Advanced Microprocessors</td>
<td>4</td>
</tr>
</tbody>
</table>

**WIRELESS AND FIBER-OPTIC COMMUNICATIONS (N) CE846**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (13 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10 Survey of Electronics</td>
<td>4</td>
</tr>
<tr>
<td>ELE-32 FCC Radiotelephone License Exam Preparation</td>
<td>3</td>
</tr>
<tr>
<td>ELE-39 PCM and Digital Transmission</td>
<td>3</td>
</tr>
<tr>
<td>ELE-40 Fiber-Optic Basics</td>
<td>3</td>
</tr>
</tbody>
</table>
EMERGENCY MEDICAL SERVICES
This program prepares individuals, under the remote supervision of physicians, to recognize, assess, and manage medical emergencies in prehospital settings and to supervise ambulance personnel. This includes instruction in basic, intermediate, and advanced EMS procedures; emergency surgical procedures; medical triage; rescue operations; crisis scene management and personal supervision; equipment operation and maintenance; patient stabilization, monitoring, and care; drug administration; identification and preliminary diagnosis of disease and injuries; communication and computer operations; basic anatomy, physiology, pathology, and toxicology; and professional standards and regulations.

PARAMEDIC (M)  AS585/CE585
Certificate Program
Required Courses (49.5 units)  Units
EMS-60  Patient Assessment and Airway Management  4
EMS-61  Introduction to Medical Pathophysiology  3
EMS-62  Emergency Pharmacology  4
EMS-63  Cardiology  4
EMS-70  Trauma Management  4
EMS-71  Clinical Medical Specialty I  2.5
EMS-80  Medical Emergencies  4.5
EMS-81  Special Populations  4.5
EMS-82  Special Topics  2
EMS-83  Clinical Medical Specialty II  2.5
EMS-90  Assessment Based Management  4.5
EMS-91  Paramedic Field Internship  10

Associate of Science Degree
The Associate of Science Degree in Paramedic will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificate may lead to employment competency, but does not lead to an Associate of Science Degree:

EMERGENCY MEDICAL TECHNICIAN (M)  CE801
Certificate Program
Required Courses (7 units)  Units
EMS-50  Emergency Medical Services-Basic  6
EMS-51  Emergency Medical Services-Basic  1
Clinical /Field

ENGINEERING TECHNOLOGY
This program generally prepares individuals to apply basic engineering principles and technical skills in support of engineers engaged in a wide variety of projects. This includes instruction in various engineering support functions for research, production, and operation, and application to specific engineering specialties. This discipline focuses on Engineering Technology, Mechanical Engineering and Civil Engineering (Engineering Technicians).

ENGINEERING TECHNICIAN (N)  AS550/CE550
Certificate Program
Student Learning Outcomes
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of engineering technology by completing a portfolio, which may include sketches, Computer Aided Drafting (CAD), and 3-D modeling.

Required Courses (27 units)  Units
ENE-1A  Plane Surveying I  3
ENE-1B  Plane Surveying II  3
ENE-21  Drafting  3
ENE-22  Engineering Drawing  3
ENE-30  Computer Aided Drafting (CAD)  3
MAT-35  Intermediate Algebra  5
MAT-36  Trigonometry  4
Electives (Choose from list below)  3

Electives
ARE-24  Architectural Drafting  3
ENE-23  Descriptive Geometry  3
ENE-26  Civil Engineering Drafting  3
ENE-31  Computer-Aided Drafting and Design  3

Associate of Science Degree
The Associate of Science Degree in Engineering Technician will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Student Learning Outcomes
In addition to achieving the student learning outcome for the engineering technician certificate program, students who complete the Associate of Science Degree in Engineering Technician will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.

ENGINEERING TECHNOLOGY (N)  AS551
Associate of Science Degree
Required Courses (32-34 units)  Units
ENE-21  Drafting  3
ENE-22  Engineering Drawing  3
ENE/ELE-27  Technical Communication  3
ENE-30  Computer Aided Drafting (CAD)  3
ELE-21  DC-AC Electronics  4
MAT-11  College Algebra  4
MAT-36  Trigonometry  4
WEL-34  Metal Joining Processes  2
Electives (Choose from list below)  6-8

M - Moreno Valley College  N - Norco College  R - Riverside City College
FILM, TELEVISION AND VIDEO

The program prepares individuals to communicate information, entertainment and ideas through film, television and video. This includes practical, hands-on instruction in how to plan and produce a variety of genre in film, television and video; crew responsibilities and production techniques for film, television, video and audio; equipment operation including film and video cameras, editing equipment, switches, character generators, lighting instruments, and microphones; techniques for making specific types of film, television and video programming; use of digital technology and computer applications to record, edit or enhance images, audio, graphics or effects; and how to manage film and video operations.

FILM, TELEVISION AND VIDEO PROD

Specialist (R)

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Utilize a variety of electronic media production equipment and facilities in the creation and completion of film, television and video projects, including but not limited to film and video cameras, character generators, microphones, lighting instruments, teleprompters, editing software, and control room test equipment.
- Produce film and video segments, from concept to finished product, that have a focused, coherent message with a clear beginning, middle and end and that meet industry technical standards for moving and still visual images and audio and editing.
- Communicate effectively and work cooperatively in a team production environment.
- Demonstrate workplace behaviors (“soft skills”) necessary for success in the film, television and video production industry.

Required Courses (28 units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTV-41</td>
<td>Introduction to Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>FTV-42</td>
<td>Writing for Broadcast Television and Radio</td>
<td>3</td>
</tr>
<tr>
<td>FTV-43</td>
<td>Television Studio and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>FTV-44</td>
<td>Introduction to Television Production</td>
<td>3.5</td>
</tr>
<tr>
<td>FTV-45</td>
<td>Television News Production</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Choose 3 units

- FTV-38 Telecommunications Production Project
- FTV-53 Telecommunications Laboratory

In addition, choose and complete courses from one emphasis below: 9

DIGITAL MEDIA/MOTION GRAPHICS EMPHASIS

Core Requirements 19

Select another 9 units from the following:

- FTV-51 Telecommunications Laboratory
- FTV-52 Telecommunications Laboratory
- FTV-60 Overview of Digital Media
- FTV-64 Digital Editing Principles and Techniques
- FTV-66 Advanced Digital Editing
- FTV-200 Telecommunications Work Experience
- ADM-68 3D Animation with Maya
- ADM-69 Motion Graphics and Compositing with After Effects
- ADM-71 Adobe Photoshop
- ADM-78A Multimedia Construction with Macromedia Director
- ADM-78B Multimedia Construction with Lingo
- ART-22 Basic Design
- ART-23 Design and Color
- ART-36 Computer Art
- PHO-8 Introduction to Photography
**FILM PRODUCTION EMPHASIS**

Core Requirements 19 units

Select another 9 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTV 12</td>
<td>History of Film</td>
<td>3</td>
</tr>
<tr>
<td>FTV-48</td>
<td>Short Film Production</td>
<td>3</td>
</tr>
<tr>
<td>FTV-51</td>
<td>Telecommunications Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FTV-52</td>
<td>Telecommunications Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>FTV-64</td>
<td>Digital Editing Principles and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FTV-65</td>
<td>The Director’s Art in Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FTV-66</td>
<td>Advanced Digital Editing</td>
<td>3</td>
</tr>
<tr>
<td>FTV-68</td>
<td>Story Development Process in the Entertainment Industry</td>
<td>3</td>
</tr>
<tr>
<td>FTV-69</td>
<td>Script Supervising for Television and Film</td>
<td>3</td>
</tr>
<tr>
<td>FTV-70</td>
<td>Scriptwriting Software using Final Draft</td>
<td>1</td>
</tr>
<tr>
<td>FTV-200</td>
<td>Telecommunications Work Experience</td>
<td>1-2-3-4</td>
</tr>
<tr>
<td>ADM-68</td>
<td>3D Animation with Maya</td>
<td>3</td>
</tr>
<tr>
<td>ADM-69</td>
<td>Motion Graphics and Compositing with After Effects</td>
<td>3</td>
</tr>
<tr>
<td>ADM-71</td>
<td>Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>ENG-38</td>
<td>Introduction to Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>PHO-8</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>THE-5</td>
<td>Theatre Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**SOUND ENGINEERING EMPHASIS**

Core Requirements 19 units

Select another 9 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIT/MUS-11</td>
<td>Sound Recording and Reinforcement Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FTV-51</td>
<td>Telecommunications Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FTV-52</td>
<td>Telecommunications Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>FTV-63</td>
<td>Multimedia Sound Design Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FTV-64</td>
<td>Digital Editing Principles and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FTV-65</td>
<td>The Director’s Art in Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FTV-66</td>
<td>Advanced Digital Editing</td>
<td>3</td>
</tr>
<tr>
<td>FTV-71</td>
<td>Sound Engineering for Audio in Media</td>
<td>3</td>
</tr>
<tr>
<td>FIT-200</td>
<td>Telecommunications Work Experience</td>
<td>1-2-3-4</td>
</tr>
<tr>
<td>MUS-8A</td>
<td>Introduction to MIDI and Digital Audio</td>
<td>3</td>
</tr>
</tbody>
</table>

**TELEVISION PRODUCTION EMPHASIS**

Core Requirements 19 units

Select another 9 units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTV-51</td>
<td>Telecommunications Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FTV-52</td>
<td>Telecommunications Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>FTV-64</td>
<td>Digital Editing Principles and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FTV-66</td>
<td>Advanced Digital Editing</td>
<td>3</td>
</tr>
<tr>
<td>FTV-67</td>
<td>Introduction to Video Production</td>
<td>2</td>
</tr>
<tr>
<td>FTV-69</td>
<td>Script Supervising for Television and Film</td>
<td>3</td>
</tr>
<tr>
<td>FTV-70</td>
<td>Scriptwriting Software using Final Draft</td>
<td>1</td>
</tr>
<tr>
<td>FIT-200</td>
<td>Telecommunications Work Experience</td>
<td>1-2-3-4</td>
</tr>
<tr>
<td>ADM-68</td>
<td>3D Animation with Maya</td>
<td>3</td>
</tr>
<tr>
<td>ADM-69</td>
<td>Motion Graphics and Compositing with After Effects</td>
<td>3</td>
</tr>
<tr>
<td>ADM-71</td>
<td>Adobe Photoshop</td>
<td>3</td>
</tr>
<tr>
<td>JOU-1</td>
<td>Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOU-7</td>
<td>Mass Communications</td>
<td>3</td>
</tr>
<tr>
<td>PHO-8</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>THE-5</td>
<td>Theatre Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Film, Television and Video, Production Specialist will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificate may lead to employment competency, but does not lead to an Associate of Science Degree:

**BASIC TELEVISION PRODUCTION (R)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIT-38</td>
<td>Telecommunications Production Project</td>
<td>3</td>
</tr>
<tr>
<td>FIT-42</td>
<td>Writing for Broadcast Television and Radio</td>
<td>3</td>
</tr>
<tr>
<td>FIT-43</td>
<td>Television Studio and Equipment</td>
<td>3</td>
</tr>
<tr>
<td>FIT-44</td>
<td>Television Production</td>
<td>3.5</td>
</tr>
<tr>
<td>FIT-45</td>
<td>Television News Production</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**FIRE TECHNOLOGY**

This program prepares individuals to perform the duties of fire fighters. This includes instruction in fire-fighting equipment operation and maintenance, principles of fire science and combustible substances, methods of controlling different types of fires, hazardous material handling and control, fire rescue procedures, public relations and applicable laws and regulation.

**CHIEF OFFICER (M)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIT-C2A</td>
<td>Command 2A, Command Tactics At Major Fires</td>
<td>2</td>
</tr>
<tr>
<td>FIT-C2B</td>
<td>Command 2B, Management of Major Hazardous Materials Incidents</td>
<td>2</td>
</tr>
<tr>
<td>FIT-C2C</td>
<td>Command 2C, High Rise Fire Tactics</td>
<td>2</td>
</tr>
<tr>
<td>FIT-C2D</td>
<td>Command 2D, Planning for Large Scale Disasters</td>
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<tr>
<td>FIT-C2E</td>
<td>Command 2E, Wild Land Firefighting Tactics</td>
<td>1</td>
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<tr>
<td>FIT-C40</td>
<td>Advanced Incident Command System (I-400)</td>
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<tr>
<td>FIT-M2A</td>
<td>Organizational Development and Human Relations</td>
<td>2</td>
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<tr>
<td>FIT-M2C</td>
<td>Management 2C, Personnel and Labor Relations</td>
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<tr>
<td>FIT-M2D</td>
<td>Fire Management 2D, Master Planning in the Fire Science</td>
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</tr>
<tr>
<td>FIT-M2E</td>
<td>Contemporary Issues and Concepts</td>
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</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Fire Technology, Chief Officer will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
Upon successful completion of this program, students should be able to:

- Identify minimum qualifications and entry-level skills for firefighter hiring. The student will be able to describe the following elements: application process; written exam process; physical agility exam, oral interview, chief’s interview; background investigation; and firefighter probationary process. Students will identify fire service history, culture and diversity.
- 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.
- 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.
- 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 alarm systems, and identify common health and safety concerns for firefighter and first responders.

Certificate Program

Program Learning Outcomes

- Identify and describe the following 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.
- 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 alarm systems, and identify common health and safety concerns for firefighter and first responders.

Required Courses (18.5 units)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>FIT-A1A</td>
<td>Fire Investigation 1A</td>
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<td>FIT-C1A</td>
<td>Command 1A, Command Principles for Command Officers</td>
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<tr>
<td>FIT-C1B</td>
<td>Command 1B, Hazardous Materials</td>
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<tr>
<td>FIT-C1C</td>
<td>Fire Command 1C, I-Zone Firefighting for Command Officers</td>
<td>2</td>
</tr>
<tr>
<td>FIT-C30</td>
<td>Intermediate Incident Command System (I-300)</td>
<td>.5</td>
</tr>
<tr>
<td>FIT-I1A</td>
<td>Instructor 1A, Instructional Techniques</td>
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<tr>
<td>FIT-I1B</td>
<td>Instructor 1B, Instructional Techniques</td>
<td>2</td>
</tr>
<tr>
<td>FIT-M1</td>
<td>Fire Management 1, Management/Supervision for Command Officers</td>
<td>2</td>
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<tr>
<td>FIT-P1A</td>
<td>Prevention 1A, Fire Inspection Practices</td>
<td>2</td>
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<tr>
<td>FIT-P1B</td>
<td>Prevention 1B, Code Enforcement</td>
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Associate of Science Degree

The Associate of Science Degree in Fire Technology, Fire Officer will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Required Courses (19 units)

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<tr>
<th>Course</th>
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<td>Fire Behavior and Combustion</td>
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<td>Fire Protection Equipment and Systems</td>
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<td>FIT-4</td>
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<td>FIT-5</td>
<td>Fire Prevention</td>
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<td>FIT-7</td>
<td>Principles of Fire and Emergency Services Safety</td>
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</tr>
<tr>
<td>Electives</td>
<td>(Choose from list below)</td>
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Electives (5 units)

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<tr>
<th>Course</th>
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<tr>
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<td>CON-61</td>
<td>Materials of Construction</td>
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<td>PHP-35</td>
<td>Foundation for Fitness and Wellness</td>
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Students who successfully complete the certificate may also be eligible to receive additional certification through FEMA/National Fire Academy.

Associate of Science Degree

The Associate of Science Degree in Fire Technology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Required Courses (23 units)

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<td>FIT-7</td>
<td>Principles of Fire and Emergency Services Safety</td>
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</tr>
<tr>
<td>Electives</td>
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Associate of Science Degree

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<td>Foundation for Fitness and Wellness</td>
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</tbody>
</table>
GEOGRAPHIC INFORMATION SYSTEMS
This program prepares individuals for the systematic study of mapmaking and the application of mathematical, computer and other techniques to the science of mapping geographic information. This includes instruction in cartographic theory and map projections, computer-assisted cartography, map design and layout, photogrammetry, air photo interpretation, remote sensing, cartographic editing, and applications to specific industrial, commercial, research, and governmental mapping problems.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

**CORE CERTIFICATE IN GIS MAPPING (N) CE794**
**Certificate Program**
Required Courses (9 units) Units
GIS-1 Introduction to Geographic Information Systems 3
GIS-5 Cartography and Base Map Development 3
GIS-9 Spatial Analysis with GIS 3

**GISOGRAPHIC INFORMATION SYSTEMS (N) CE790**
**Certificate Program**
Required Courses (15 units) Units
GIS-1 Introduction to Geographic Information Systems 3
GIS-5 Cartography and Base Map Development 3
GIS-9 Spatial Analysis with GIS 3
GIS-17 Advanced GIS Applications 3
Electives (Choose from list below) 3

Electives
GIS-13 GIS for Science, Business and Government 3
GIS-21 Global Positioning System (GPS) Field Techniques 3
GIS-25 GIS Internship 3

GENERAL BUSINESS
See Business Administration

GRAPHICS TECHNOLOGY
See Applied Digital Media and Printing

HUMAN SERVICES
This program focuses on the general study and provision of human and social services to individuals and communities and prepares individuals to work in public and private human service agencies and organizations. This includes instruction in the social sciences, psychology, principles of social services, human services policy, planning and evaluation, social services law and administration, and applications to particular issues, services, localities, and populations.

The Human Services Program prepares students for various paraprofessional positions in human services, such as mental health case manager, job coach/employment specialist, social service intake specialist, or community health worker. Graduates of the program will be prepared to work as entry-level employees in a variety of settings such as group homes, halfway houses, mental health and correctional facilities, family, child and service agencies under the direct supervision of social workers and other human services professionals in public and non-profit social service agencies.

**HUMAN SERVICES (MR) AS663/CE663**
**Certificate Program**
**Program Learning Outcomes**
Upon successful completion of this program, students should be able to:
- Demonstrate knowledge and skills needed to prepare for an entry-level paraprofessional position in human services.
- Develop a thoughtful, genuine, and empathetic attitude toward human beings.
- Increase the capacity for self-awareness and personal growth.
- Assist consumers and family members in matching needs with available community resources.
- Expand knowledge, skills, and attitudes necessary to help people better understand and help themselves.

Required Courses (21 units) Units
HMS-4 Introduction to Human Services 3
HMS-5 Introduction to Evaluation and Counseling 3
HMS-6 Introduction to Case Management 3
HMS-8 Introduction to Group Process 3
HMS-16 Public Assistance and Benefits 1
HMS-200 Human Services Work Experience 1-2-3-4
Electives (Choose from list below) 6

Electives
HMS-7 Introduction to Psychosocial Rehabilitation 3
HMS-13 Employment Support Strategies 3
HMS-14 Job Development 3
HMS-18 Introduction to Social Work 3
HMS-19 Generalist Practices of Social Work 3

Associate of Science Degree
The Associate of Science Degree in Human Services will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

The following certificate may lead to employment competency, but does not lead to an Associate of Science Degree:

**EMPLOYMENT SUPPORT SPECIALIZATION (MR) CE802**
This program prepares students to apply technical knowledge and skills to provide employment support for individuals with disabilities and their family members.

**Certificate Program**
**Program Learning Outcomes**
Upon successful completion of the program, students will be able to:
- Demonstrate ability to help individuals become employable and self-sufficient.
- Provide follow-up services to help individuals maintain employment.
- Demonstrate ability to assist individuals with knowledge about benefits, eligibility requirements and available services and resources.

Required Courses (4 units) Units
HMS-13 Employment Support Strategies 3
HMS-16 Public Assistance and Benefits 1
LOGISTICS MANAGEMENT
This program prepares individuals to manage business logistics functions, ranging from acquisitions to receiving and handling, through internal allocation of resources to operations units, and delivery to the final customer. This includes instruction in the domestic and international aspects of logistics contracts and purchasing, computerized logistics systems, inventory control, warehousing, transportation, and freight claims. Emphasis is placed on the efficient and effective integration of all logistics activities.

LOGISTICS MANAGEMENT (N) AS579/CE579
Certificate Program
Student Learning Outcomes
The Logistics Management Certificate prepares students for entry into and/or advancement within management career patterns of the logistics industry. Preparation for ongoing study of the field is also provided. Since understanding just one discipline within the supply chain is not enough, it is assured that graduates can: Identify the critical roles and objectives of managers in a variety of logistics activities (warehousing, traffic and transportation, service contracting, purchasing and supply management, international logistics, etc); understand how managers in various logistics disciplines can interact to efficiently use their combined personnel, facilities and capital; compare 3rd party logistics provider needs to those of their clients in negotiations, bidding, and contracts, as well as the challenges they face managing mutually beneficial relationships within legal and regulatory guidelines; contribute knowledge needed for multi-disciplinary logistics teams to effectively exceed end-user (customer) expectations by improving coordination between their operations.

Required Courses (21 units)

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<tr>
<th>Course</th>
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</table>

Associate of Science Degree
The Associate of Science Degree in Logistics Management will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

Student Learning Outcomes
In addition to achieving the program learning outcome for the logistics management certificate program, students who complete the Associate of Science Degree in Logistics Management will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.

MANUFACTURING TECHNOLOGY
This program prepares individuals to apply basic engineering principles and technical skills to the identification and resolution of production problems in the manufacture of products. This includes instruction in machine operations, production line operations, engineering analysis, systems analysis, instrumentation, physical controls, automation, computer-aided manufacturing (CAM), manufacturing planning, quality control, and informational infrastructure.

AUTOMATED SYSTEMS (N) AS732/CE732
Certificate Program
Required Courses (26 units)

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Electives

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<td>4</td>
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<tr>
<td>ENE/ELE-27</td>
<td>3</td>
</tr>
<tr>
<td>ENE-60</td>
<td>3</td>
</tr>
<tr>
<td>ENE-200</td>
<td>1-2-3-4</td>
</tr>
</tbody>
</table>

Associate of Science Degree
The Associate of Science Degree in Manufacturing Technology, Automated Systems will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

AUTOMATED SYSTEMS TECHNICIAN (N) AS737/CE737
Certificate Program
Student Learning Outcomes
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of automated systems by compiling a portfolio of their work, which may include sample parts accompanied by drawings and digital pictures.

Required Courses (24 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELE-10</td>
<td>4</td>
</tr>
<tr>
<td>ELE-26</td>
<td>4</td>
</tr>
<tr>
<td>ELE/ELE-27</td>
<td>3</td>
</tr>
<tr>
<td>ENE-51</td>
<td>2</td>
</tr>
<tr>
<td>ENE-60</td>
<td>3</td>
</tr>
<tr>
<td>MAC/MAN-55</td>
<td>2</td>
</tr>
<tr>
<td>MAC/ENE-61</td>
<td>3</td>
</tr>
<tr>
<td>MAC/MAN-56</td>
<td>3</td>
</tr>
</tbody>
</table>

Associate of Science Degree
The Associate of Science Degree in Manufacturing Technology, Automated Systems Technician will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

MANAGEMENT
See BUSINESS ADMINISTRATION
Student Learning Outcomes
In addition to achieving the program learning outcome for the automated systems technician certificate program, students who complete the Associate of Science Degree in manufacturing technology will demonstrate proficiency in general education student learning outcomes and proficiency in subject matter student learning outcomes.

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

**Computer-Aided Production Technology (N) CE799**

**Certificate Program Student Learning Outcomes**
Students will demonstrate proficiency sufficient to apply for and obtain entry-level employment in the field of computer-aided production technology by completing the following: a Steam or Stirling Engine that involves parts using both the mill and lathe; a portfolio which may include printouts of Mastercam part file drawings, numerical code files, operation sheets, and writing assignment on occupational safety in the general industry.

<table>
<thead>
<tr>
<th>Required Courses (14-15 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENE-51 Blueprint Reading</td>
<td>2</td>
</tr>
<tr>
<td>ENE-60 Math for Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>MAN/MAC-55 Occupational Safety and Health Administration (OSHA) Standards for General Industry</td>
<td>2</td>
</tr>
<tr>
<td>MAN/MAC-56 CNC Machine Set-up and Operation</td>
<td>4</td>
</tr>
<tr>
<td>Electives (Choose from list below)</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Electives (3-4 units)**

| MAN-52 Computer-Aided Manufacturing-Mastercam | 4 |
| MAN/MAC-57 CNC Program Writing | 3 |
| MAN-59 Computer-Aided Manufacturing-GibbsCAM | 4 |

**MARKETING**
See Business Administration

**Medical Assisting**
This program prepares individuals to provide medical office administrative services and perform clinical duties including patient intake and care, routine diagnostic and recording procedures, pre-examination and examination assistance, administration of medications, and first aid under the supervision of a physician. This includes instruction in basic anatomy and physiology; medical terminology; medical law and ethics; patient psychology and communications; medical office procedures; and clinical/diagnostic examination, testing, and treatment procedures.

**Administrative/Clinical Medical Assisting (M) AS718/CE718**

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (22 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDA-1A Medical Terminology IA</td>
<td>3</td>
</tr>
<tr>
<td>MDA-1B Medical Terminology IB</td>
<td>3</td>
</tr>
<tr>
<td>MDA-54 Clinical Medical Assisting and Pharmacology</td>
<td>5</td>
</tr>
<tr>
<td>MDA-59 Medical Office Procedures</td>
<td>5</td>
</tr>
<tr>
<td>Electives (Choose from list below)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Electives (6 units)**

| CIS-1A Introduction to Computer Information Systems | 3 |
| CAT/CIS-3 Computer Applications for Working Professionals | 3 |
| CAT-50 Keyboarding and Document Processing | 3 |
| CAT/CIS-84 WordPerfect for Windows | 3 |

**Associate of Science Degree**
The Associate of Science Degree in Medical Assisting will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

**Medical Transcription (M) AS701/CE701**
The purpose of the course is to prepare the individual to be a medical language specialist who will apply the knowledge of medical terminology, anatomy and physiology, and English language rules to the transcription and proofreading of medical dictation from various healthcare providers. The individual will interpret and transcribe dictation by physicians and other healthcare professionals regarding patient assessment, therapeutic procedures, and clinical course, to provide a permanent medicolegal record of patient care. This includes preparing the individual to recognize, interpret and evaluate inconsistencies in the grammar of the spoken word and appropriately edit, revise and clarify it without changing the meaning of the dictation. The individual will be prepared to demonstrate an understanding of the medicolegal responsibilities and implications related to the transcription of documents in order to protect the patient and the institution/business facility. The operation of designated word processing, dictation and transcription equipment and software will be included.

**Certificate Program**

<table>
<thead>
<tr>
<th>Required Courses (26 units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMY-10 Survey of Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>MDA-1A Medical Terminology IA</td>
<td>3</td>
</tr>
<tr>
<td>MDA-1B Medical Terminology IB</td>
<td>3</td>
</tr>
<tr>
<td>MDA-58A Medical Transcription</td>
<td>5</td>
</tr>
<tr>
<td>CAT-30 Business English</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Choose from list below)</td>
<td>9</td>
</tr>
</tbody>
</table>

**Electives (9 units)**

| MDA-58B Advanced Medical Transcription | 3 |
| MDA-60 Survey of Human Diseases | 2 |
| MDA-61 Pharmacology for Medical Office Personnel | 2 |
| CAT/CIS-3 Computer Applications for Working Professionals | 3 |
| CAT-50 Keyboarding and Document Processing | 3 |
| CAT/CIS-84 Word Processing: WordPerfect for Windows | 3 |

**Associate of Science Degree**
The Associate of Science Degree in Medical Assisting/Medical Transcription will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
MUSIC

The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

JAZZ PERFORMANCE (R) CE852

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

- Analyze, practice and interpret jazz and popular music chord symbols.
- Demonstrate the ability to analyze, learn, and perform standard jazz literature.
- Prepare a program, program notes or other materials related to the recital repertoire in cooperation with the instructor or recital coordinator.

Required Courses (17-17.5 units) Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-25</td>
<td>Jazz Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>MUS-35</td>
<td>Vocal Music Ensembles (2 semesters)</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>MUS-36 Instrumental Chamber Ensembles</td>
<td>1.5</td>
</tr>
<tr>
<td>(1 semester)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS-39</td>
<td>Intermediate Applied Music (2 semesters)</td>
<td>6</td>
</tr>
<tr>
<td>MUS-43</td>
<td>Jazz Improvisation and Theory (2 semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUS-52</td>
<td>Recital Performance</td>
<td>0.5</td>
</tr>
<tr>
<td>Performing Ensemble (Choose from list below)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Performing Ensembles

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-33</td>
<td>Vocal Jazz Ensemble (2 semesters)</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MUS-44 Jazz Ensemble (2 semesters)</td>
<td>4</td>
</tr>
</tbody>
</table>

MIDI (R) CE850

Certificate Program

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Assemble, mix and master complete MIDI/Digital Audio compositions and film scores.
- Utilize MIDI/Digital audio software and hardware including computers, controllers, synthesizers, sequencers, samplers, effects processors, microphones and mixers.
- Communicate effectively and work cooperatively with film directors and music producers.

Required Courses (13 units) Units

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-3</td>
<td>Fundamentals of Music</td>
<td>4</td>
</tr>
<tr>
<td>MUS-8A</td>
<td>Introduction to MIDI and Digital Audio</td>
<td>3</td>
</tr>
<tr>
<td>MUS-8B</td>
<td>Sequencing and Orchestration with Digital Audio and MIDI</td>
<td>3</td>
</tr>
<tr>
<td>MUS-9</td>
<td>Music Composition and Film Scoring with Digital Audio</td>
<td>3</td>
</tr>
</tbody>
</table>

NURSING

REGISTERED NURSING PROGRAM (R) AS586

This program generally prepares individuals in the knowledge, techniques and procedures for promoting health, providing care for sick, disabled, infirm, or other individuals or groups. This includes instruction in the administration of medication and treatments, assisting a physician during treatments and examinations, referring patients to physicians and other health care specialists, and planning education for health maintenance.

Associate of Science Degree in Registered Nursing Program Learning Outcomes

Based on the nature of person/client, the stages of the life cycle and respecting individual differences, the graduate of the Riverside City College Associate Degree Nursing Program will:

1. In the Provider of Care Role:

   Demonstrate critical thinking competencies using the nursing process as a basis for clinical decision-making by incorporating established nursing interventions which assist clients with common recurring health-illness problems at the primary, secondary, and tertiary levels of care.

   A. Assessment

   - Assess the client’s health status by completing a health history and performing a physical, cognitive, psychosocial, and functional assessment.
   - Assess the client’s response to actual/potential health problems and interventions.
   - Assess client for changes in health status and identified needs and client’s access to available community resources.
   - Assess environmental factors that may affect the client’s...
II. In the Manager of Care Role:

- Assess the interaction patterns of the individual client and support person(s) for learning strengths, capabilities, barriers, spiritual, cultural, and educational needs.
- Identify client healthcare needs and select nursing diagnoses based on analysis and interpretation of evidence-based practice.
- Make sound clinical and management decisions ensuring individualized safe quality care while incorporating the impact of developmental, emotional, cultural, and spiritual influences.
- Identify client healthcare needs, participate in data collection for research, and quality improvement to meet client outcomes.

C. Planning

- Establish client-centered outcomes based on priorities of care identified in collaboration with client, family, and multidisciplinary healthcare team.
- Use evidence-based practice as a means to develop an individualized plan of care.
- Develop an individualized teaching plan based on assessed learning needs.
- Develop caring interventions for clients and their support persons to achieve the desired outcomes.

D. Implementation

- Coordinate and implement the individualized plan of care providing a safe physical and supportive psychosocial environment.
- Demonstrate caring behaviors toward the client and support person(s), protecting and promoting the client’s dignity.
- Adapt nursing care in consideration of the client’s values, customs, culture, spiritual beliefs, and/or habits.
- Demonstrate therapeutic communication skills when working with the healthcare team and assist the client to cope with and adapt to stressful events and changes in health status.
- Initiate interventions to achieve prioritized client outcomes regarding physiological and psychological safety, multidisciplinary treatment plan, and continuity of care in assisting the client to optimum comfort and functioning.
- Demonstrate competent technical skills, using current technology as a foundation for effective practice in a variety of settings.
- Incorporate practices in medication administration to ensure client safety and prevention of errors.
- Teach the client and significant support person(s) the information and skills needed to achieve desired outcomes.
- Report and document assessments, interventions, and progress toward client outcomes to the multidisciplinary team in an accurate and concise manner.
- Recommend community resources for home and community-based care.

E. Evaluation

- Collaborate with client(s), family, and the multidisciplinary healthcare team to determine the effectiveness of interventions and teaching plans in achieving identified client outcomes, reassess and modify the plan of care as appropriate.
- Use standards of nursing practice to evaluate quality of client care.
- Document and communicate evaluation results to multidisciplinary healthcare team as appropriate, abiding by state and federal laws and regulation (HIPPA).

III. In the Member Within the Discipline of Nursing Role:

- Practice within the ethical and legal framework of nursing, including the California Nurse Practice Act, and report unsafe or illegal practices using appropriate channels of communication.
- Uses the ANA Standards of Practice and the Code of Ethics (ANA) for nurses to guide and evaluate nursing practice.
- Demonstrate professional behaviors, accountability for own nursing practice/competency and those duties delegated or assigned to others, including peer review.
- Demonstrate a foundation for cultural competence.
- Practice self-regulation assuming responsibility for updating knowledge base and clinical practice.
- Evaluate, reassess and adapt practice consistently and in response to constructive criticism or suggestions for improvement.
- Implement a plan for life-long learning, self-development, and self-care.
- Facilitate and apply evidence-based nursing practice.
- Contribute to the profession of nursing through mentoring, role modeling, participating in quality improvement activities, professional and organizational committees, and political action affecting healthcare.
- Demonstrate caring behaviors toward clients, peers, self, and other members of the healthcare team that builds positive team relationships, promotes organizational goals, and contributes to a healthy work environment.
- Delineate and maintain appropriate professional boundaries in the nurse-client relationship.
- Demonstrate successful performance on NCLEX-RN.
- Obtain employment as a competent professional ADN entry-level registered nurse.
The Associate of Science Degree in Registered Nursing will be awarded upon successful completion of the following courses:

Required Courses (72 units) Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMY-2A</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>AMY-2B</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>MIC-1</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>PSY-9</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>ANT-2</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ENG-1A</td>
<td>English Composition</td>
<td>4</td>
</tr>
<tr>
<td>American Institutions</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Communication and Analytical Thinking</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SPE-1 or SPE-9 and Elective Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>NRN-1</td>
<td>Introduction to Nursing Concepts and Practice</td>
<td>8</td>
</tr>
<tr>
<td>NRN-2</td>
<td>Beginning Nursing Concepts of Health and Illness</td>
<td>8.5</td>
</tr>
<tr>
<td>NRN-3</td>
<td>Intermediate Nursing Concepts of Health and Illness</td>
<td>9</td>
</tr>
<tr>
<td>NRN-4</td>
<td>Advanced Nursing Concepts of Health and Illness</td>
<td>9</td>
</tr>
<tr>
<td>NRN-15</td>
<td>Introduction to Nursing Roles and Relationships</td>
<td>2</td>
</tr>
<tr>
<td>NRN-16</td>
<td>Dimensions of AD-Registered Nursing</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Vocational Nursing (R)**  AS588/CE588

This program prepares individuals to assist in providing general nursing care under the direction of a registered nurse, physician or dentist. This includes instruction in taking patient vital signs, applying sterile dressings, patient health education, and assistance with examinations and treatment.

**Certificate Program**

**Program Learning Outcomes**

Based on the nature of man, the stages of his life cycle and respecting his individual differences, the graduate of the Riverside City College Vocational Nursing Program will be a:

I. Provider of Care

Under the direction of the registered professional nurse, apply critical thinking as the basis for using the nursing process to assist clients with common, well defined health illness needs.

- Assess clients and communicate information that contributes to the nursing data base.
- Applying knowledge of Maslow’s hierarchy of human needs and Erikson’s stages of growth and development, participate in the development of the plan of care using established nursing diagnoses for clients with common, well defined health illness needs.
- Using fundamental biopsychosocial principles, perform basic therapeutic and preventive nursing measures.
  - Use basic therapeutic communication techniques which promote positive relationships with clients, families, and multidisciplinary healthcare team members.
  - Perform basic health teaching during routine care as directed by the professional nurse to clients with common, well defined health illness needs.
  - Organize nursing care measures to give appropriate care to individual and/or multiple clients by prioritizing client(s) needs and implementing interventions.
  - Collaborate with healthcare team members to deliver holistic nursing care.

- Participate in evaluating the nursing care given and in modifying the plan of care as appropriate.
- Using collaboration, provide leadership and supervision to unlicensed assistive personnel to whom tasks have been delegated.
- Serve as an advocate for client rights, while ensuring client confidentiality at all times.
- Demonstrate competence with current technologies.

II. Member Within the Discipline of Nursing

Function as a member of the healthcare team by:

- Evaluate and demonstrate accountability for own performance according to ethical-legal standards and role of the vocational nurse in the healthcare delivery system.
- Seek assistance as necessary to ensure that appropriate nursing standards are maintained.
- Assess own knowledge and skills level to determine need for on-going study and participate in continuing nursing education in a changing health field.
- Within professional boundaries, demonstrate caring behaviors toward peers and other members of the multidisciplinary healthcare team.
- Acknowledge the responsibility of nurses to contribute to the profession through participation on committees and in organizations.

**Required Courses (51 units) Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMY-10</td>
<td>Survey of Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>NVN-50</td>
<td>Introductory Vocational Nursing Foundations</td>
<td>2</td>
</tr>
<tr>
<td>NVN-51</td>
<td>Introductory Concepts of Vocational Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NVN-52</td>
<td>Introductory Concepts of Vocational Nursing</td>
<td>9.5</td>
</tr>
<tr>
<td>NVN-60</td>
<td>Intermediate Vocational Nursing Foundations</td>
<td>1</td>
</tr>
<tr>
<td>NVN-61</td>
<td>Intermediate Concepts of Vocational Nursing</td>
<td>6</td>
</tr>
<tr>
<td>NVN-62</td>
<td>Intermediate Concepts of Vocational Nursing</td>
<td>12</td>
</tr>
<tr>
<td>NVN-63</td>
<td>Intermediate Concepts of Vocational Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NVN-70</td>
<td>Advanced Vocational Nursing Foundations</td>
<td>1</td>
</tr>
<tr>
<td>NVN-71</td>
<td>Advanced Concepts of Vocational Nursing</td>
<td>7.5</td>
</tr>
<tr>
<td>PSY-9</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Associate of Science Degree**

The Associate of Science Degree in Vocational Nursing will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
The following certificates may lead to employment competency, but do not lead to an Associate of Science Degree:

**Critical Care Nurse (R)** CE581

**Certificate Program**

**Program Learning Outcomes**
Upon successful completion of the program, students should be able to:
- Identify environmental factors influencing the role of the critical care nurse.
- Develop constructive personal coping behaviors to be utilized when functioning as a critical care nurse.
- Identify ethical dilemmas and legal issues related to critical care nursing.
- Demonstrate the management of technical equipment commonly used.
- Identify methods for data collection utilized in patient assessment.
- Analyze pathophysiological behaviors of the major body systems.
- Incorporate assessment findings and patient responses into the delivery of patient care.
- Recognize signs and symptoms related to patient diagnosis frequently treated in critical care.
- Prioritize and organize care of the critically ill patient.
- Apply treatment protocols based on critical care policies, procedures, and professional standards.
- Implement interventions to meet the psychosocial needs of the critical care patient/family.
- Develop a collaborative and collegial working relationship with other healthcare team members.

**Prerequisite:** Completion of the RN program is required prior to enrolling in this course.

**Required Courses (5 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NXN-81</td>
<td>Critical Care Nursing</td>
<td>5</td>
</tr>
</tbody>
</table>

**Nursing Assistant (R)** CE584

**Program Description**

This program prepares individuals to perform routine nursing related services to patients in hospitals or long-term care facilities, under the training and supervision of a registered nurse or licensed practical nurse.

The certificate program noted below is incorporated into the VN and RN programs. For a stand alone CNA course, please see HET-80 under Healthcare Technician or call 951-571-6135 for more information.

**Certificate Program**

**Program Learning Outcomes**
- Classify the basic human needs according to Maslow’s hierarchy and apply the knowledge of these needs to the care of Level I patients (Middle, Older, and Very Old Adults).
- Describe the following eleven developmental psychosocial stages in the life cycle, according to Erikson/Newman and Newman.
- Assess the position of the patient from maximum health to death, according to the health-illness continuum.
- Demonstrate beginning critical thinking in using the nursing process with Level I patients’ chronic health problems in various settings.
- Identify the three roles of the Associate Degree Nurse inherent within the outcome objectives of the nursing program.
- Demonstrate math/medication competency in calculations and drug dosages.

- Identify the competencies needed for a new graduate nurse in the current healthcare delivery system.
- Refer to the School of Nursing Associate Degree Nursing Program Level Objectives.

**Required Courses (8-9.5 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRN-1</td>
<td>Introduction to Nursing Concepts and Practice</td>
<td>8</td>
</tr>
<tr>
<td>or</td>
<td>NVN-52</td>
<td>Introductory Concepts of Vocational Nursing-Nursing Fundamentals</td>
</tr>
</tbody>
</table>

**Paralegal Studies**

This program prepares individuals to perform research, drafting, investigatory activities, record-keeping and related paralegal administrative functions under the supervision of an attorney in a law firm, public or private entity, and/or within a courtroom setting. This includes instruction in legal research, drafting legal documents, appraising, pleading, courthouse procedures, and legal specializations.

**Paralegal Studies (R)** AS591

**Associate of Science Degree**

**Program Learning Outcomes**
Upon successful completion of this program, students should be able to:
- Produce written legal documents involved in litigation.
- Utilize electronic resources to research law and apply it to a given set of facts.
- Utilize appropriate judicial council pleading forms to produce documents required for pursuing and defending a lawsuit.
- Demonstrate a working knowledge of discovery tools and their functions as they relate to trial.
- Demonstrate ethical behavior of paralegals relevant to the attorney/client relationship.

**Required Courses (37.5 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-18A</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>PAL-10</td>
<td>Introduction to Paralegal Studies</td>
<td>3</td>
</tr>
<tr>
<td>PAL-64</td>
<td>Legal Research and Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>PAL-68</td>
<td>Civil Litigation and Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>CAT/CIS-80</td>
<td>Word Processing: Microsoft Word for Windows</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CAT/CIS-84</td>
<td>Word Processing: WordPerfect for Windows</td>
</tr>
</tbody>
</table>

**Level II Courses:**
- BUS-18B    | Business Law II                    | 3     |
- PAL-14     | Legal Ethics                       | 3     |
- PAL-70     | Law Office Policies, Procedures and Ethics | 1.5 |
- PAL-72     | Legal Analysis and Writing         | 3     |
- PAL-78     | Civil Litigation and Procedures II | 3     |

**Specialty Courses (Select 9 Units From The Following)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC-1A</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>PAL-80</td>
<td>Internship Project</td>
<td>1.5</td>
</tr>
<tr>
<td>PAL-81</td>
<td>Bankruptcy Law and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PAL-83</td>
<td>Estate Planning and Probate Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PAL-85</td>
<td>Family Law and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PAL-87</td>
<td>Trial Practice Preparation and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>RLE-82</td>
<td>Legal Aspects of Real Estate</td>
<td>3</td>
</tr>
</tbody>
</table>
PHOTOGRAPHY
This program focuses on the principles and techniques of communicating information, ideas and emotion through digital and film photography. The goal is to prepare individuals for careers in photographic and photography-related fields. This includes instruction in: camera operation and maintenance, use and maintenance of all photographically-related equipment, selection of camera equipment, digital and film media, printing media, film developing, light and composition, color and special effects, photography as art, the history of photography, and the use of computer applications to refine and organize photographic images.

PHOTOGRAPHY (R) AS592/CE592
Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Demonstrate competency in manipulating aperture, shutter and focal length to create a proper exposure as well as control action and depth of field for use in specialized situations.
• Identify, describe and demonstrate formal concepts of photographic composition.
• Define and demonstrate elements of lighting for still life and portraiture.
• Modify images through the use of digital manipulation of pixels using channels, color adjustments and layer blend modes.
• Produce a portfolio of work demonstrating technical competencies and aesthetic merit.

Required Courses (24 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHO-8</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHO-9</td>
<td>Intermediate Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHO-10</td>
<td>Advanced Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHO-12</td>
<td>Photojournalism</td>
<td>3</td>
</tr>
<tr>
<td>PHO-13</td>
<td>Advanced Darkroom Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PHO-14</td>
<td>Basic Studio Portraiture</td>
<td>3</td>
</tr>
<tr>
<td>PHO-17</td>
<td>Introduction to Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHO-20</td>
<td>Digital Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Associate of Science Degree
The Associate of Science Degree in Photography will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

PHYSICAL EDUCATION
This program prepares individuals to apply business, coaching and physical education principles to the organization, administration and management of athletic programs and teams, fitness/rehabilitation facilities and health clubs, sport recreation services, and athletic training programs. This includes instruction in program planning and development; business and financial management principles; sales, marketing and recruitment; event promotion, scheduling and management; facilities management; public relations; legal aspects of sports; and applicable health and safety standards.

EXERCISE, SPORT, AND WELLNESS Certificate Program
Major Core Requirements:
Required Courses (21 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-4</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PHP-10</td>
<td>Introduction to Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PHP-12</td>
<td>Sport Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHP-14</td>
<td>Athletic and Fitness Organization and Admin</td>
<td>3</td>
</tr>
<tr>
<td>PHP-16</td>
<td>Introduction to Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>PHP-30</td>
<td>First Aid and CPR</td>
<td>3</td>
</tr>
<tr>
<td>PHP-35</td>
<td>Foundations for Fitness and Wellness</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, choose and complete courses from one emphasis below: 3-16

FITNESS PROFESSIONS EMPHASIS (R) AS595/CE595
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Demonstrate an acceptable level of health-related fitness.
• Demonstrate appropriate knowledge of fitness testing and of issues specific to different populations.
• Identify psychological principles of human movement in exercise and sport settings.
• Identify, explain, and apply appropriate principles of physical activity and nutrition for physical well being and lifelong learning.

(Total of 24 units)

Core Requirements 21
Take one of the following:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-42</td>
<td>Lifeguarding/Title 22 First Aid/ Water Safety Instructor</td>
<td>4</td>
</tr>
<tr>
<td>PHP-43</td>
<td>Personal Training</td>
<td>3</td>
</tr>
<tr>
<td>PHP-44</td>
<td>Yoga Instructor Training</td>
<td>3</td>
</tr>
<tr>
<td>PHP-45</td>
<td>Group Fitness Instructor</td>
<td>3</td>
</tr>
</tbody>
</table>

ATHLETIC TRAINING EMPHASIS (R) AS597/CE597
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Construct an injury prevention program for an athletic team based on knowledge of strength/conditioning, nutrition, health and safety, and protective equipment.
• Utilize appropriate knowledge and strategies to create an emergency action plan for an athletic team or teams.
• Apply the technical skills of taping and wrapping techniques.
• Demonstrate an appropriate and organized approach to event management.
• Identify and evaluate appropriate strategies for rehabilitation of athletic injuries.
• Demonstrate appropriate communication and behavioral skills and social attitudes necessary in an athletic training environment.
### Curricular Patterns

**Riverside Community College District • Norco College 2010-2011**

#### Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-21</td>
<td>Athletic Training Applications</td>
</tr>
</tbody>
</table>

*(Must take two times)*

**Take two of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-17</td>
<td>Athletic Training, Fall Sports, Lower Extremity</td>
</tr>
<tr>
<td>PHP-18</td>
<td>Athletic Training, Spring Sports, Upper Extremity</td>
</tr>
<tr>
<td>PHP-19</td>
<td>Athletic Training, Fall Sports, Head, Neck, Spine, Torso, and Hip</td>
</tr>
</tbody>
</table>

**Total of 29 units**

#### Program Learning Outcomes

**COACHING EMPHASIS (R)**

**AS599/CE599**

**Program Learning Outcomes**

Upon successful completion of this program, students should be able to:

- Identify and apply appropriate principles of coaching and an advanced level of knowledge and skill in at least one sport or physical activity.
- Demonstrate appropriate decisions relative to legal liability in coaching situations and circumstances.
- Apply appropriate strategies, tactics, and conditioning activities for the age and skill level of their athletes.
- Demonstrate an understanding of administrative practices in sports management.
- Identify, explain, and apply appropriate principles of problem solving for one or more problem, challenge, or difficulty associated with a sport.
- Recognize the principles of health care and safety for student athletes in relation to athletic training and sports medicine issues.

**Total of 30 units**

#### Electives

<table>
<thead>
<tr>
<th>Group 1 Electives (3 units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-24</td>
</tr>
<tr>
<td>PHP-25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 2 Electives (3 units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-26</td>
</tr>
<tr>
<td>PHP-27</td>
</tr>
<tr>
<td>PHP-28</td>
</tr>
<tr>
<td>PHP-29</td>
</tr>
<tr>
<td>PHP-33</td>
</tr>
<tr>
<td>PHP-34</td>
</tr>
<tr>
<td>PHP-42</td>
</tr>
</tbody>
</table>

**Group 3 Electives - Individual Activity Courses (1 unit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-A11</td>
<td>Tennis, Beginning</td>
</tr>
<tr>
<td>PHP-A12</td>
<td>Tennis, Intermediate</td>
</tr>
<tr>
<td>PHP-A13</td>
<td>Tennis Advanced</td>
</tr>
<tr>
<td>PHP-A20</td>
<td>Golf, Beginning</td>
</tr>
<tr>
<td>PHP-A21</td>
<td>Golf, Intermediate</td>
</tr>
<tr>
<td>PHP-A28</td>
<td>Swimming, Basic Skills and Aquatic Exercise</td>
</tr>
<tr>
<td>PHP-A29</td>
<td>Swimming, Intermediate Skills</td>
</tr>
<tr>
<td>PHP-A30</td>
<td>Swimming, Advanced Skills and Conditioning</td>
</tr>
<tr>
<td>PHP-A33</td>
<td>Track and Field: Running Event Techniques</td>
</tr>
<tr>
<td>PHP-A34</td>
<td>Track and Field: Field Event Techniques</td>
</tr>
</tbody>
</table>

**Group 4 Electives - Team Activity Courses (1 unit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-A50</td>
<td>Baseball Fundamentals, Defensive</td>
</tr>
<tr>
<td>PHP-A51</td>
<td>Baseball Fundamentals, Offensive</td>
</tr>
<tr>
<td>PHP-A52</td>
<td>Fast Pitch Fundamentals, Offensive</td>
</tr>
<tr>
<td>PHP-A53</td>
<td>Fast Pitch Fundamentals, Defensive</td>
</tr>
<tr>
<td>PHP-A54</td>
<td>Fast Pitch Softball Fundamentals</td>
</tr>
<tr>
<td>PHP-A57</td>
<td>Basketball</td>
</tr>
<tr>
<td>PHP-A60</td>
<td>Football Fundamentals, Defensive</td>
</tr>
<tr>
<td>PHP-A61</td>
<td>Football Fundamentals, Offensive</td>
</tr>
<tr>
<td>PHP-A62</td>
<td>Flag Football</td>
</tr>
<tr>
<td>PHP-A64</td>
<td>Soccer</td>
</tr>
<tr>
<td>PHP-A67</td>
<td>Volleyball, Beginning</td>
</tr>
<tr>
<td>PHP-A68</td>
<td>Volleyball, Intermediate</td>
</tr>
<tr>
<td>PHP-A69</td>
<td>Volleyball, Advanced</td>
</tr>
</tbody>
</table>

**Group 5 Electives - Fitness Activity Courses (1 unit)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHP-A31</td>
<td>Water Aerobics and Deep Water Exercise</td>
</tr>
<tr>
<td>PHP-A74</td>
<td>Hiking and Backpacking</td>
</tr>
<tr>
<td>PHP-A75</td>
<td>Walking for Fitness</td>
</tr>
<tr>
<td>PHP-A77</td>
<td>Jogging for Fitness</td>
</tr>
<tr>
<td>PHP-A78</td>
<td>Long Distance Running</td>
</tr>
<tr>
<td>PHP-A80</td>
<td>Triathlon Techniques</td>
</tr>
<tr>
<td>PHP-A81</td>
<td>Physical Fitness</td>
</tr>
<tr>
<td>PHP-A86</td>
<td>Step Aerobics</td>
</tr>
<tr>
<td>PHP-A87</td>
<td>Step Aerobics, Intermediate</td>
</tr>
<tr>
<td>PHP-A88</td>
<td>Step Aerobics, Advanced</td>
</tr>
<tr>
<td>PHP-A90</td>
<td>Weight Training</td>
</tr>
<tr>
<td>PHP-A92</td>
<td>Weight Training, Advanced</td>
</tr>
</tbody>
</table>

#### Associate of Science Degree

The Associate of Science Degree in Physical Education will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
PHYSICIAN ASSISTANT
This program prepares individuals academically and clinically to provide health care services with direction and supervision of a physician. Physician Assistants provide a broad range of medical services to include history taking, physical assessment, surgery assist, and diagnostic, preventive and therapeutic interventions. This includes basic medical, clinical, behavioral and social sciences; introduction of patient assessment; supervised clinical practice in family medicine, pediatrics, women health, general surgery, psychiatry, and behavioral medicine; health policy and professional practice issues; and the delivery of health care services to home-bound patients, rural populations, underserved populations.

PHYSICIAN Assistant (M) AS501/CE501
Prior to acceptance to the Physician Assistant Program students must complete prerequisites in physics, chemistry, algebra, English, anatomy and physiology, microbiology, sociology or cultural anthropology and psychology. It is highly recommended that students complete Abnormal Psychology and Medical Terminology prior to entering the program. Anatomy and physiology and microbiology must have been taken within the last five years with a combined GPA of 2.7. An overall GPA of 2.5 is required in other general education courses. A minimum of 2,000 hours paid “hands-on” patient care experience in the disciplines of medicine, nursing or allied health is also required.

Certificate Program
Required Courses (91.5 units) Units
PHT-1 Applied Clinical Skills 2
PHT-2 Medicine Science I 6.5
PHT-3 History and Physical Assessment I 4
PHT-4 Applied Clinical Skills II 4
PHT-5 Medicine Science II 6.5
PHT-6 History and Physical Assessment II 4
PHT-7 Medical Pharmacology 4
PHT-8 Applied Clinical Skills III 3
PHT-9 Medicine Science III 6.5
PHT-10 Clinical Nutrition 3
PHT-11 Internal Medicine I 6
PHT-12 Internal Medicine II 6
PHT-13 General Surgery 4
PHT-14 Surgery II 6
PHT-15 Pediatrics 6
PHT-16 Obstetrics/Gynecology 6
PHT-17 Family Practice 6
PHT-18 Psychiatry/Mental Health 4
PHT-19 Emergency Medicine 4

Associate of Science Degree
The Associate of Science Degree in Physician Assistant will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

REAL ESTATE
See Business Administration

RETAIL MANAGEMENT/WAFC
This program prepares individuals to perform operations associated with retail sales in a variety of settings. This includes instruction in over-the-counter and other direct sales operations in business settings, basic bookkeeping principles, customer service, team/staff leadership and supervision, floor management, and applicable technical skills.

RETAIL Management/WAFC (NR) AS536/CE536
(WESTERN Association OF Food Chains)
Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Use Generally Accepted Accounting Principles or International Accounting Standards guidelines to review and interpret financial documents.
• Calculate pricing models for mark-ups, profit margins for perishable and lost goods, discounts, and sinking funds.
• Prepare and deliver effective oral and written communications through multiple modes in multiple situations.
• Create and use basic word processing documents, spread sheets and visual (power point) presentations.
• Create and prepare a research paper on selected topics.
• Effectively apply basic management principles to actual and role-played work situations.
• Analyze and assess the legal and productivity implications of work conflicts.
• Effectively communicate in small groups.
• Analyze the effectiveness of marketing decisions and use marketing principles to assess market potential.

Required Courses (30 units) Units
ACC-1A Principles of Accounting I 3
or
ACC/CAT-55 Applied Accounting/Bookkeeping 3
BUS-20 Business Mathematics 3
BUS-22 Management Communications 3
CIS-1A Introduction to Computer Information Systems 3
or
CIS/CAT-3 Computer Applications for Working Professionals 3
MAG-44 Principles of Management 3
or
MAG-51 Elements of Supervision 3
MAG-53 Human Relations 3
MAG-56 Human Resources Management 3
MAG-57 Oral Communications 3
or
SPE-1 Public Speaking 3
or
SPE-9 Interpersonal Communication 3
MKT-20 Principles of Marketing 3
MKT-42 Retail Management 3

Associate of Science Degree
The Associate of Science Degree in Retail Management/WAFC will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
SIGN LANGUAGE INTERPRETING
This program prepares individuals to function as simultaneous and consecutive interpreters as well as transliterators of American Sign Language (ASL) and other signing systems employed to assist deaf and hard-of-hearing people, both voice-to-sign and sign-to-voice interpretation. This includes instruction in American Sign Language (ASL), alternative sign systems, fingerspelling, vocabulary and expressive nuances, oral and text translation skills, cross-cultural communications, slang and colloquialisms, and technical interpretation.

SIGN LANGUAGE INTERPRETING (R) AS505/CE505
Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Produce documented completion of a total of 54 observation hours, 27 mentorship hours, and 92 practicum hours.
• Provide a completed portfolio, including, but not limited to, a resume, an introductory letter, business cards, intake form, invoice form, and Interpreter Kit.
• Demonstrate entry-level interpreting skills before an exiting panel at the end of the 4th interpreting skills class.

Required Courses (28.5 units) Units
AML-5 Sign Language for Interpreters 4
AML-10 Introduction to Sign Language Interpreting 3
AML-11 Interpreting I 4.5
AML-12 Interpreting II 4.5
AML-13 Interpreting III 4.5
AML-14 Interpreting IV/Practicum 2
AML-20 Ethics and Professional Standards of Interpreting 3
AML/SOC-22 American Deaf Culture 3

Associate of Science Degree
The Associate of Science Degree in Sign Language Interpreting will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.

TELECOMMUNICATIONS
SEE FILM, TELEVISION, AND VIDEO PRODUCTION

WELDING TECHNOLOGY
This program prepares individuals to apply technical knowledge and skills for joining and cutting metallic materials. This includes instruction in SMAW, FCAW, GMAW, GTAW welding processes; Oxyacetylene and Plasma cutting of ferrous and non-ferrous materials. Including, welding metallurgy, structural welding safety, and applicable codes and standards.

WELDING TECHNOLOGY (R) AS606/CE606
Certificate Program
Program Learning Outcomes
Upon successful completion of this program, students should be able to:
• Work safely within the welding industry.
• Obtain an American Welding Society (AWS) certification.
• Demonstrate skills necessary to obtain an entry-level job within the welding/construction industry.

Required Courses (36 units) Units
WEL-15 Intro. to Basic Shielded Metal Arc Welding 3
WEL-16 Advanced Shielded Metal Arc Welding 3
WEL-35 Semi-Automatic Welding 3
WEL-55A Gas Tungsten Arc Welding-Plate Material 3
WEL-55B Gas Tungsten Arc Welding-Exotic Metals 3
WEL-60 Advanced Pipe and Plate Laboratory 2
WEL-61 Certification for Licensing of Welding 3
ENE-21 Drafting 3
ENE-60 Math for Engineering Technology 3
ENG-50 Basic English Composition 4
Electives (Choose from list below) (6 units)
ENE-51 Blueprint Reading 2
WEL-25 Introduction to Oxyacetylene Welding 3
WEL-34 Metal Joining Processes 2
WEL-200 Welding Work Experience 1-2-3-4

Associate of Science Degree
The Associate of Science Degree in Welding Technology will be awarded upon completion of the degree requirements, including general education and other graduation requirements as described in the college catalog.
Section VI

COURSE DESCRIPTIONS
COURSE DESCRIPTIONS

Riverside Community College District offers a comprehensive program of instruction for students who wish to transfer to four year institutions, complete an associate degree, train for specific occupations, or develop skills and knowledge. The information listed on courses and transferability is accurate as of the catalog publication date, but from time to time this varies based on changes that occur at four-year institutions. It is always advisable to check with a counselor and the four-year transfer institution for current updates. The following section includes a description of courses which the Board of Trustees has authorized the District to offer. The complete course outlines of record including student learning outcomes can be found at www.curricunet.com/RCCD.

The program of instruction is divided into major categories:

TRANSFER

College and university parallel courses are generally numbered 1 through 49. There are, however, many exceptions. See a counselor for information.

IGETC

Intersegmental general education transfer curriculum is a series of courses that RCCD students may use to satisfy lower division general education requirements at any CSU or UC campus. IGETC provides an option to the California State University general education requirements and replaces the University of California Transfer Code Curriculum.

UC/CSU

These designated courses are transferable to the campuses of the University of California and the California State University system. Those courses that are not marked UC are not transferable to University of California campuses. Those courses marked UC* indicate there are transfer credit limitations. Copies of the UC transfer course list indicating credit unit limitations are available in the Transfer/Career Center on all three campuses. When in doubt, students are advised to confer with a counselor.

DELIVERY METHODS

A variety of delivery methods are used to offer classes a Riverside Community College District, including face-to-face classroom instruction and distance delivery methods such as televised classes and online classes (taught entirely online utilizing computer and internet technology). Enrollment in online classes is limited to students who have demonstrated competency in working in the online environment. Please see the Open Campus section of the class schedule for details on meeting the limitation on enrollment for online classes.

NON-DEGREE CREDIT

Courses indicated as non-degree credit earn credit, but the credit is not counted toward the associate degree. These courses (Art 95 to 99; Computer Applications and Office Technology 99 ABCDE; English 60AB, 60A1, 60A2, 60A3, 60A4, 85, 90B; English as a Second Language 51, 52, 53, 65, 71, 72, 90 A-K, 91, 92, 95, Guidance 95; Mathematics 63, 64, 65, 90 A-F, 98; Nursing - Continuing Education 81, 83; Reading 81, 82, 83, 86, 87, 95; Spanish 85) are intended to help students develop skills necessary to succeed in college level degree-applicable courses. Non-degree credit courses can be used toward the following: athletic eligibility, work study, financial aid, social security benefits, veteran’s benefits, associated student body office, and full-time status.

NON-TRANSFER

Several general education, occupational, vocational and technical courses are numbered 50 and above. Since these courses are not offered at four-year colleges and universities, they are not designed for transfer credit. Some exceptions do exist. Students are advised to confer with a counselor regarding possible transferability.

NON-CREDIT

These courses are numbered in the 800’s and are non-credit classes. No unit credit is earned in these courses.

REPEATING A COURSE

Some courses, particularly in performance areas such as music, theater, and athletics where significant skill improvement is an important objective, may be repeated regardless of the grade earned. In these instances, for example, the student may repeat the course three times, for a maximum of four (4) total enrollments in the same activity. Beginning tennis, intermediate tennis, advanced tennis, for example, are considered as the same activity, and a student may enroll in the activity for a total of four (4) times.

LIMITATIONS ON ENROLLMENT

Please check course description carefully to see if there are any prerequisites, corequisites, advisory or other limitations on enrollment.

Prerequisite - When a course has a prerequisite, it means that the corresponding discipline has determined that the student must have certain knowledge to be successful in the course. The prior knowledge may be a skill (type 40 WPM), and ability (speak and write French fluently), a preparation score (placement test and prior academic background), or successful completion of a course (grade of C or better, P or CR). Completion of the prerequisite is required prior to enrolling in the class. Successful completion of a prerequisite requires a grade of C or better, P (Pass) or CR (Credit). C-, D, F, NP (No Pass), NC (No Credit), or I are not acceptable. Students currently enrolled in a prerequisite course at Riverside Community College District (i.e. Math 52) will be allowed to register for the succeeding class (i.e. Math 35). However, if the prerequisite course is not passed with at least a C grade, the student will be dropped from the succeeding class.

Corequisite - When a course has a corequisite, it means that a student is required to take another course concurrent with or prior to enrollment in the course. Knowing the information presented in the corequisite course is considered necessary for a student to be successful in the course. (Completion of, or concurrent enrollment in, Math 1A is required for Physics 4A.)

It is the student’s responsibility to know and meet the course prerequisites and corequisites. These are stated in the course descriptions of the schedule of classes and the current college catalog. A student may be required to file proof of prerequisite and corequisite requirements.

Advisory - When a course has an advisory, it means that a student is recommended to have a certain preparation before entering the course. The preparation is considered advantageous to a student’s success in the course. Since the preparation is advised, but not required, the student will not be blocked from enrolling in a class if he/she does not meet the advisory.
Verifying Prerequisites/Corequisites - It is the student’s responsibility to know and meet the course prerequisites and corequisites. These are stated in the course descriptions within the Schedule of Classes and the RCCD Catalog.

If you have met the prerequisites at another accredited college or university, you must provide verification through one of the following:

- Submit official transcript(s) and complete a Prerequisite Validation Form.
- Submit unofficial transcript(s) or grade reports and complete a Matriculation Appeals Petition. Petitions approved on an unofficial transcript will be approved for one semester only. This will provide time for the student to request official transcripts.
- If you wish to challenge a prerequisite for courses other than English, ESL, math or reading on the basis of knowledge or ability or because of the unavailability of the prerequisite, submit a Matriculation Appeals Petition at any of our college’s counseling offices.
- Successful completion of some high school courses are accepted by the discipline as an appeal to existing prerequisites and/or corequisites. For more information about these acceptable courses, please call the prerequisite hotline at (951) 222-8808.

Petitions to challenge a prerequisite or to file a complaint of unlawful discrimination are available in the Counseling Offices on all three colleges.

CREDIT COURSES
Credit courses can be degree or non-degree applicable. Unlike non-credit courses, they do carry units based on the number of hours of lecture, lab, or both that are required in the official course outline for the course. These courses are in a wide variety of areas; each requires critical thinking, reading and writing, and assignments that are completed outside of class that require the student to study and work independently. Credit courses are approved by the district and campus Curriculum Committees and the Board of Trustees.

ACCOUNTING

ACC-1A - Principles of Accounting I 3 units
UC, CSU
Prerequisite: None.
Advisory: BUS-20
An introduction to accounting principles and practice, as a manual and/or computerized information system that provides and interprets economic data for economic units within a global society. Includes recording, analyzing and summarizing procedures used in preparing financial statements. 54 hours lecture.

ACC-1B - Principles of Accounting II 3 units
UC, CSU
Prerequisite: ACC-1A.
A study of managerial accounting principles and information systems including basic concepts, limitations, tools and methods to support the internal decision-making functions of an organization. 54 hours lecture.

ACC-38 - Managerial Accounting 3 units
CSU
Prerequisite: ACC-1A.
Conceptual and technical analysis of accounting information used by managers as they carry out their planning, controlling and decision-making responsibilities. Includes coverage of just-in-time systems, activity-based costing, flexible manufacturing systems, computer-integrated performance measures and the impact of automation on capital budgeting decisions. 54 hours lecture.

ACC-55 - Applied Accounting/Bookkeeping 3 units
(Same as CAT-55)
Prerequisite: None.
This is an introductory course for students who are non-accounting majors. The focus is basic bookkeeping and accounting principles for both merchandising and service oriented small business enterprises. Emphasis is on the development of skills to record business transactions for cash and accrual methods, as well as the procedures to prepare financial statements and complete an accounting cycle. Attention is given to special journals, subsidiary ledgers, and payroll and banking procedures. 54 hours lecture.

ACC-61 - Cost Accounting 3 units
CSU
Prerequisite: ACC-1B.
Studies the development of detailed cost data essential to management for controlling operations, decision making and planning. Principles of cost accounting are applied primarily to a manufacturing organization, but are also used by merchandising and service organizations. Use of computers may be required. 54 hours lecture.

ACC-62 - Payroll Accounting 3 units
CSU
Prerequisite: ACC-1A.
Studies accounting for payroll and examines aspects of the Social Security Act, California Unemployment Insurance Act and the California Workmen’s Compensation Insurance Act. Payroll principles applied through the use of microcomputers. 54 hours lecture.

ACC-63 - Income Tax Accounting 3 units
CSU
Prerequisite: None.
Theory and method of preparation of federal income tax returns for individuals. Actual forms are studied and returns are prepared. 54 hours lecture.

ACC-65 - Computerized Accounting 3 units
CSU
Prerequisite: ACC-1A or 10A; or CAT-63A.
Advisory: CIS-1 or 90A.
An introduction to computerized accounting, integrating the principles of accounting to an automated system in use by many accounting professionals. 54 hours lecture.
ACC-66 - Non-Profit and Governmental Accounting  3 units
CSU
Prerequisite: ACC-1A.
Advisory: BUS-20.
A study of the principles and practices of nonprofit and governmental entities fund accounting. Topics include accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to nonprofit and governmental organizations. 54 hours lecture.

ACC-200 - Accounting Work Experience  1-2-3-4 units
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student's occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

ADMINISTRATION OF JUSTICE

ADJ-1 - Introduction to the Administration of Justice  3 units
UC, CSU
Prerequisite: None.
The history and philosophy of administration of justice in America; recapitulation of the system; identifying the various subsystems, role expectations, and their interrelationships; theories of crime, punishment, and rehabilitation; ethics, education, and training for professionalism in the system. 54 hours lecture.

ADJ-2 - Principles and Procedures of the Justice System  3 units
CSU
Prerequisite: None.
The role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, corrections. An historical exposure to each of the sub-systems' procedures from initial entry to final disposition and the relationship each segment maintains with its system members. 54 hours lecture.

ADJ-3 - Concepts of Criminal Law  3 units
UC, CSU
Prerequisite: None.
Historical development, philosophy of law and constitutional provisions; definitions, classification of crimes, and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force. 54 hours lecture.

ADJ-4 - Legal Aspects of Evidence  3 units
CSU
Prerequisite: None.
Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. 54 hours lecture.

ADJ-5 - Community Relations  3 units
UC, CSU
Prerequisite: None.
An in-depth exploration of the roles of administration of justice practitioners and agencies. The interrelationships and role expectations among the various agencies and the public. Principal emphasis will be placed upon the professional image of the system of justice administration and the development of positive relationships between members of the system and the public. 54 hours lecture.

ADJ-6 - Patrol Procedures  3 units
CSU
Prerequisite: None.
Responsibilities, techniques and methods of police patrol. 54 hours lecture.

ADJ-8 - Juvenile Law and Procedures  3 units
CSU
Prerequisite: None.
The organization, functions, and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures. 54 hours lecture.

ADJ-9 - Law in American Society  3 units
CSU
Prerequisite: None.
A general survey of practical law intended as an introduction to the legal system and to acquaint the student with elements of the law that affect everyday legal relationships: criminal and juvenile justice, consumer law, family law, housing law, and individual rights and liberties. Emphasis is placed on the philosophical and political foundations of law and on civil law. Recommended for prelaw students and for others interested in the practical application of the law. 54 hours lecture.

ADJ-10 - Introduction to Security  3 units
Prerequisite: None.
This is an introductory course into the career ladder of Private Security. This course will serve as the entry point for understanding this career field, as unique from traditional law enforcement services, e.g., police officer, deputy sheriff. The students will focus on the provision of security services for the private sector and the business world by satisfying the customer through the provision of myriad services at the security officer, supervisor and manager/administrator level. 54 hours lecture.

ADJ-13 - Criminal Investigation  3 units
CSU
Prerequisite: None.
Fundamentals of investigation; crime scene search and recording; collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; interviews and interrogation; follow up and case preparation. 54 hours lecture.

ADJ-14 - Advanced Criminal Investigation  3 units
CSU
Prerequisite: ADJ-13.
Advanced training and skill development in the conduct of crime scene investigation and in the recording, collection and preservation of physical evidence. Focus is on the understanding and working knowledge of fingerprints, ballistics, firearms identification, varieties of trace evidence and a basic introduction to forensic sciences. 36 hours lecture and 54 hours laboratory (simulated crime scene investigation.)
ADJ-15 - Narcotics  
3 units  
CSU  
Prerequisite: None.  
A basic understanding of narcotics and dangerous drugs, the causes of addiction or habituation, identification of narcotics, hallucinogenics, enforcement procedure and legal aspects. 54 hours lecture.

ADJ-16 - Interviewing and Counseling  
3 units  
CSU  
Prerequisite: None.  
Introduction to approaches of behavior modification through interviewing and counseling. An overview of the techniques available to entry level practitioners in corrections in counseling and interviewing. Creates an awareness of advanced methods utilized by professional counselors. Traces the development of positive relationships between the client and corrections personnel. 54 hours lecture.

ADJ-18 - Institutional and Field Services  
3 units  
CSU  
Prerequisite: None.  
Philosophy and history of correctional services. A survey of the correctional sub-systems of institutions by type and function, probation concepts, and parole operations. A discussion of correctional employee responsibilities as applied to offender behavior modification via supervisory control techniques. Rehabilitation goals as they affect individual and inmate cultural groups in both confirmed and field settings. 54 hours lecture.

ADJ-20 - Introduction to Corrections  
3 units  
CSU  
Prerequisite: None.  
This course is designed to provide the student with an overview of the history and trends of adult and juvenile corrections, including probation and parole. The course will focus on the legal issues, specific laws and general operations of correctional institutions. The relationship between corrections and other components of the judicial system will also be examined. This course has been identified by the Correctional Peace Officer Standards and training Board of the Department of Corrections, California Youth Authority and the California Peace Officers Association to fulfill the educational requirements of the CPOST Certificate for apprentices hired after July 1, 1995 by CDC and CYA. 54 hours lecture.

ADJ-21 - Control and Supervision in Corrections  
3 units  
CSU  
Prerequisite: None.  
This course provides an overview of the supervision process of inmates in the local, state and federal correctional institutions. The issues of the control continuum from daily institutional living through crisis situations will be introduced and discussed. The course will emphasize the role played by the offender and the correctional worker. Topics will include inmate subculture, violence and effects of crowding on inmates and staff and coping techniques for correctional officers in a hostile prison environment. This course has been identified by the Correctional Peace Officers Standards and Training Board of the Department of Corrections, California Youth Authority and the California Peace Officers Association to fulfill the educational requirements of the CPOST Certificate for apprentices hired after July 1, 1995 by CDC and CYA. 54 hours lecture.

ADJ-22 - Legal Aspects of Corrections  
3 units  
CSU  
Prerequisite: None.  
This course provides students with an awareness of the historical framework, concepts and precedents that guide correctional practice. Course study will broaden the individual's perspective of the corrections environment, the civil rights of prisoners and the responsibilities and liabilities of corrections officials. This course has been identified by the Correctional Peace Officers Standards and Training Board of the Department of Corrections, California Youth Authority and the California Peace Officers Association to fulfill the educational requirements of the CPOST Certificate for apprentices hired after July 1, 1995 by CDC and CYA. 54 hours lecture.

ADJ-23 - Criminal Justice Report Writing  
3 units  
CSU  
Prerequisite: None.  
This is an introductory course emphasizing the practical aspects of gathering, organizing and preparing written reports applicable to the criminal justice system. The course will cover the techniques of communicating facts, information and ideas effectively in a simple, clear and logical manner. Students will gain practical experience in note taking, report writing, memoranda, letters, directives and written administrative projects. Students will also gain practical experience in preparation for court appearances. This course has been identified by the Correctional Peace Officers Standards and Training Board of the Department of Corrections, California Youth Authority and the California Peace Officers Association to fulfill the educational requirements of the CPOST Certificate for apprentices hired after July 1, 1995 by CDC and CYA. 54 hours lecture.

ADJ-25 - Introduction to Probation and Parole  
3 units  
CSU  
Prerequisite: None.  
This course provides an overview of the historical development of probation and parole from early court procedures through modern practices. Course study will emphasize organization, function, goals, development and treatment theory focusing on how these concepts are utilized in California. 54 hours lecture.

ADJ-30 - Introduction to Family Support Law  
3 units  
CSU  
Prerequisite: None.  
This course introduces students to the comprehensive range of policy, procedure, philosophy and theory relevant to the practice of Family Support Law. The course examines Family Support laws as they relate to child and parental rights, establishment of paternity, the role of government and the courts and policies and procedures used in the administration of such laws in public agencies. 54 hours lecture.

AMERICAN SIGN LANGUAGE

AML-1 - American Sign Language 1  
4 units  
UC*, CSU  
Prerequisite: None.  
This course concentrates on developing the basic principles and skills of American Sign Language (ASL) through cultural appreciation and nonverbal instruction. Emphasis is placed on deaf culture and deaf people in history, visual training, sign vocabulary acquisition, comprehension and communicative skills development, as well as basic structural and grammatical patterns of ASL discourse at the beginning level. 72 hours lecture and 18 hours laboratory.
AML-2 - American Sign Language 2 4 units
UC, CSU
Prerequisite: AML-1.
Further development of basic ASL skills in comprehension and expression. A continued emphasis on the acquisition of ASL vocabulary, fingerspelling, structures and grammatical patterns necessary for comprehension of standard signed ASL at the beginning/intermediate level. Nonverbal techniques are employed to further enhance the students’ complex non-manual grammatical structures as well. 72 hours lecture and 18 hours laboratory.

ANT-1 - Physical Anthropology 3 units
UC, CSU
Prerequisite: None.
Introduction to human biological evolution, physical diversity, and relationship to the animal world, using scientific and comparative methods. Incorporates the study of genetics, fossils, primates, and modern human variation within an evolutionary framework. 54 hours lecture.

ANT-2 - Cultural Anthropology 3 units
UC, CSU
Prerequisite: None.
An introduction to the anthropological concept of culture and to the methods and theories used in the comparative analysis of cultures. Cultural practices and institutions are examined using perspectives that enhance effective participation in a culturally diverse world. 54 hours lecture.

ANT-3 - Prehistoric Cultures 3 units
UC, CSU
Prerequisite: None.
The development of human society from the earliest evidence of culture to the beginnings of recorded history. The concepts, methods, and data of prehistoric archaeology are used to examine the major transitions in human prehistory, including the origins of culture, agriculture, and early civilization. 54 hours lecture.

ANT-4 - Native American Cultures 3 units
UC, CSU
Prerequisite: None.
A survey of Native American cultures from the pre-Columbian period through conquest and reservation life and into the present. Incorporates evidence from archaeology, oral history, personal narratives, and other sources. Emphasis will be on the growth of Native American cultures, modern communities, including urban life, social and religious institutions, and traditional cultural elements and artistic traditions. 54 hours lecture.

ANT-5 - Cultures of Ancient Mexico 3 units
UC, CSU
Prerequisite: None.
The development of civilization in ancient Mexico, integrating evidence from archaeology and the pre-hispanic and post-Conquest written records. Emphasizes the history, lifeways, and social and religious institutions of Mexico from the earliest cultures to the Aztec civilization, and their persistence in the modern world. 54 hours lecture.

ANT-6 - Introduction to Archaeology 3 units
UC, CSU
Prerequisite: None.
An examination of the basic concepts, methods, and findings of modern archaeology. Covers the history of archaeology, the application of archaeological methods of recovery and interpretation, and the analysis of archaeological evidence as it is used to reconstruct ancient societies and major trends in cultural evolution. 54 hours lecture.

ANT-7 - Anthropology of Religion 3 units
UC, CSU
Prerequisite: None.
Introduction to the anthropological study of religion in world cultures, using a cross-cultural approach to the analysis of beliefs, rituals, mythology, and the role of religion in society, particularly focusing on non-Western traditional societies. 54 hours lecture.

ANT-8 - Language and Culture 3 units
UC, CSU
Prerequisite: None.
An introduction to the anthropological study of language in world cultures. Characteristics of human verbal and non-verbal communication, language diversity and change, and the relationship of language to culture and social groups. 54 hours lecture.

ANT-10 - Forensic Anthropology 3 units
UC
Prerequisite: None.
The application of the methods of physical anthropology, within a medicolegal framework, to the identification of human remains. Focuses on human osteology for the determination of age, sex, ancestry, stature, and unique features. 54 hours lecture.

ANATOMY AND PHYSIOLOGY

AMY-2A - Anatomy and Physiology, I 4 units
UC, CSU
Prerequisite: None.
First of a two course sequence that introduces students to the basic concepts and principles of anatomy and physiology. This course will provide a foundation for advanced study of the human body. The course covers body orientation and organization, cells and tissues, the skeletal and muscular system, and the eye and ear. Designed to meet the prerequisite for professional programs, e.g. nursing, dental hygiene, and physical therapy. 36 hours lecture and 108 hours laboratory.

AMY-2B - Anatomy and Physiology, II 4 units
UC, CSU
Prerequisite: AMY-2A.
Second of a two course sequence in anatomy and physiology that covers these systems: nervous, endocrine, cardiovascular, respiratory, urinary, digestive, and reproductive. 36 hours lecture and 108 hours laboratory.

AMY-10 - Survey of Human Anatomy and Physiology 3 units
UC, CSU
Prerequisite: None.
An introductory and survey course of structural and functional aspects of the human body. Emphasis is placed on cell organization, human tissues and discussion of each of the human systems. 54 hours lecture.

ANTHROPOLOGY
ARCHITECTURE

ARE-24 - Architectural Drafting 3 units

Prerequisite: ENE-21 and 30.
Introduction to methods and techniques used in the development of architectural construction documents for light frame structures (Type V construction) including construction theory, notation, materials symbols, drawing format and general practice. Using Computer-Aided Drafting (CAD), this course will focus on the drawing of a set of plans to include a plot plan, foundation plan, floor plan(s), sections, exterior and interior elevations, electrical plan and structural details. Sketching techniques will also be covered. 27 hours lecture and 90 hours laboratory.

ARE-25 - Advanced Architectural Drafting 3 units

Prerequisite: ARE-24.
This course is designed for advanced study of architectural detailing and construction methods, including the preparation of working drawings. Other topics include the development of construction documents, study of the Uniform Building Code and practice from site selection to completion. A completed portfolio is a requirement of the course. 27 hours lecture and 90 hours laboratory.

ARE-26 - Architectural Rendering 3 units

Prerequisite: None.
This course provides study of pictorial drawing techniques necessary to produce architectural presentations. Finished renderings will include work in felt pen, pen and ink, various pencils, pastels, watercolor and other media variations. A completed portfolio is a requirement of the course. 27 hours lecture and 90 hours laboratory.

ARE-28 - Perspective Drawing 3 units

Prerequisite: None.
This course is designed to provide graphic communication skills used in Architecture and Architecture-related fields of Environmental Design, Landscape Design/Architecture, Interior Design and Community Planning. Purpose of the course is to provide students with a knowledge, understanding and ability to apply the keys to creating communication of three-dimensional form and space on the two dimensional surface. The course will emphasize the use of shade and shadow as well as perspective drawing techniques to produce desired graphic communication. 27 hours lecture and 90 hours laboratory.

ARE-35 - History of Architecture - Beginnings of Architecture through Gothic Architecture 3 units

Prerequisite: None.
An examination of Western architecture form and design from antiquity through the Gothic period. Architectural monuments of the Western world will be analyzed and interpreted in terms of religious, social, and political context. Particular emphasis is given to process and sources of design, types and purposes of buildings as well as architecture and art in the built environment by considering the source and meaning of beauty. 54 hours lecture.

ARE-36 - History of Architecture – Renaissance to Modern 3 units

Prerequisite: None.
A survey of the major movements in the form, theory and design of Western architecture and art from the Renaissance through the 20th century will be studied analyzed and interpreted in terms of religious social and political context. Particular emphasis will be placed on a comparative study of architectural monuments and architects, the sources of design, meaning of beauty, and conditions that influence the Western architectural traditions. 54 hours lecture

ARE-37 - Architectural Design I 3 units

Prerequisite: None.
This course is an introduction into the use of determining factors, which revolve around the design of mankind’s physical and visual environment. Emphasis is placed on two- and three-dimensional representation dealing with design composition, spatial relationships and the use of various media for graphic communication. 27 hours lecture and 90 hours laboratory.

ARE-200 - Architecture Work Experience 1-2-3-4 units

Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

ART

ART-1 - History of Western Art: Prehistoric, Ancient and Medieval 3 units

Prerequisite: None.
Advisory: Qualification for ENG-1A.
Survey of the history of Western art: painting, architecture and sculpture, Prehistoric through the Medieval periods. 54 hours lecture.

ART-2 - History of Western Art: Renaissance through Contemporary 3 units

Prerequisite: None.
Advisory: Qualification for ENG-1A.
Survey of the history of Western art: painting, architecture, and sculpture, from the Renaissance through contemporary art. 54 hours lecture.

ART-36 - History of Architecture – Renaissance to Modern 3 units

Prerequisite: None.
A survey of the major movements in the form, theory and design of Western architecture and art from the Renaissance through the 20th century will be studied analyzed and interpreted in terms of religious social and political context. Particular emphasis will be placed on a comparative study of architectural monuments and architects, the sources of design, meaning of beauty, and conditions that influence the Western architectural traditions. 54 hours lecture

ARE-37 - Architectural Design I 3 units

Prerequisite: None.
This course is an introduction into the use of determining factors, which revolve around the design of mankind’s physical and visual environment. Emphasis is placed on two- and three-dimensional representation dealing with design composition, spatial relationships and the use of various media for graphic communication. 27 hours lecture and 90 hours laboratory.

ARE-200 - Architecture Work Experience 1-2-3-4 units

Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

ART

ART-1 - History of Western Art: Prehistoric, Ancient and Medieval 3 units

Prerequisite: None.
Advisory: Qualification for ENG-1A.
Survey of the history of Western art: painting, architecture and sculpture, Prehistoric through the Medieval periods. 54 hours lecture.

ART-2 - History of Western Art: Renaissance through Contemporary 3 units

Prerequisite: None.
Advisory: Qualification for ENG-1A.
Survey of the history of Western art: painting, architecture, and sculpture, from the Renaissance through contemporary art. 54 hours lecture.
ART-3 - Art for Teachers 3 units
CSU
Prerequisite: None.
Designed to enable the student to teach basic art principles and concepts to elementary school age children (grades K-6). Intended to improve individual skills, general knowledge and confidence in teaching art. Developmental stages, creative expression and various methods and techniques will be explored with age-appropriate art projects and experiences. Intended for education, Early Childhood Studies and other non-art majors. 36 hours lecture and 54 hours laboratory.

ART-6 - Art Appreciation 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
An introductory course for the non-art major. The creative process and the diversity of style, technique and media evident in various art forms throughout history and culture. Students may not receive credit for both ART-6 and ART-6H. 54 hours lecture.

ART-6H - Honors Art Appreciation 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Limitation on enrollment: Enrollment in the Honors program.
An introductory course designed for the non-art major. The creative process and the diversity of style, technique and media evident in various art forms throughout history and culture. Honors course offers an enriched experience for accelerated students through limited class size; seminar format; focus on primary texts; and application of higher level critical thinking skills. Students may not receive credit for both ART-6 and ART-6H. 54 hours lecture.

ART-7 - Women Artists in History 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Survey of the contributions of women artists from the ancient era through the present. 54 hours lecture.

ART-8 - Mexican Art History 3 units
UC, CSU
Prerequisite: None.
Survey of architecture, sculpture, painting, and minor arts of Mexico. From pre-Columbian and Colonial, through contemporary art. 54 hours lecture.

ART-9 - African Art History 3 units
UC, CSU
Prerequisite: None.
A survey of the traditional through contemporary arts of African peoples. Both historical and current expressions of sculpture, body adornment, dance, architecture, painting, artifacts, ceramics and textiles, will be introduced and integrated with other aspects of life and culture in sub-Saharan Africa. 54 hours lecture.

ART-10 - Modern and Contemporary Art History 3 units
UC, CSU
Prerequisite: None.
A survey of the development and history of modern art with emphasis on its major movements, leading artists and contemporary trends. Painting, sculpture and architecture will be discussed in terms of their historical, social and political context. Beginning with mid 19th century movements (Realism and Impressionism), the study will continue through the current trends and new media of the day. 54 hours lecture.

ART-11 - Gallery and Exhibition Design 3 units
UC
Prerequisite: None.
Practical experience in all aspects of design and installation of art exhibits in a gallery environment; including design theory and the evaluation and analysis of the communicative, aesthetic, managerial and technical factors involved in the production of exhibits. Students are expected to pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-17 - Beginning Drawing 3 units
UC, CSU
Prerequisite: ART-17 or 22.
Continued study of the skills acquired in Beginning Drawing, with the emphasis on the use of color media. Basic color theory, with the academic, psychological and the possibilities of color, will be explored in thoughtful compositions. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-18 - Intermediate Drawing 3 units
UC, CSU
Prerequisite: ART-17 or 22.
Continued study of the skills acquired in Beginning Drawing, with the emphasis on the use of color media. Basic color theory, with the academic, psychological and the possibilities of color, will be explored in thoughtful compositions. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-19 - Experimental Drawing 3 units
UC, CSU
Prerequisite: ART-17.
Continued study of many of the skills acquired in Beginning Drawing. Emphasis is on the use of experimental methods and materials. Less attention will be directed toward traditional and fundamental academic concerns and more focus will be placed on the cultural, interpretive, psychological, and conceptual possibilities that result from exploration and engaging alternatives. The art elements, color, composition, mark making, mixed media, expression, concept, and context will all be investigated. Students will be encouraged to explore and access less conventional solutions to a variety of projects. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-20 - Beginning Sculpture 3 units
UC, CSU
Prerequisite: None.
An introduction to the fundamentals of sculpture design and creation. A variety of materials, such as clay, wax and plaster will be used. Additive, subtractive and construction methods for creating the sculptural pieces will be explored, as well as other traditional and contemporary forms and techniques. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.
ART-22 - Basic Design

UC, CSU

Prerequisite: None.

An introduction to the fundamentals of two-dimensional design. The organization of visual elements (line, shape, space, value, texture and color) according to the principles of design. Emphasis placed on visual perception, theory, dexterity, problem solving, analysis, application, skill and presentation. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-23 - Design and Color

UC, CSU

Prerequisite: ART-17 or 22.

A continued study of the principles of two-dimensional design. The practice of the organization of the visual elements (line, shape, space, value, texture and color) according to the principles of design. Emphasis placed on color theory and more advanced methods of communicating ideas through design. Students pay for their own materials. Total of 36 hours lecture and 72 hours laboratory.

ART-24 - Three Dimensional Design

UC, CSU

Prerequisite: None.

An introduction to the fundamentals of three-dimensional design. The use of the visual elements and the practice of the principles of design as they relate to various three-dimensional art forms (i.e., sculpture, architecture and product, commercial, stage, environmental and interior design). Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-25 - Watercolor Painting

UC, CSU

Prerequisite: ART-17 or 22.

Introduction to the fundamentals of painting with transparent watercolors. Various techniques, tools and materials will be explored. Composition, idea, method, color and creativity will be examined. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-26 - Beginning Painting

UC, CSU

Prerequisite: ART-17 or 22.

An introduction to the fundamentals of painting (oil or acrylic); various techniques and the application of color theory. An exploration of the media, the development of visual perception and compositional and creative skills. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-27 - Intermediate Painting

UC, CSU

Prerequisite: ART-23 or 26.

Continued study of painting (oil or acrylic); various techniques and the application of color theory. Development of visual perception, and compositional and creative skills. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-28 - Studio Painting

UC, CSU

Prerequisite: ART-26 or 27.

Continued painting studio work with emphasis on individual problems for the self-motivated student. Specific agreement identifying intent, ideas, goals, and media, to be arranged between instructor and student. Subsequent enrollment will provide an opportunity for development and refinement in the art form. Students are expected to pay for their own materials. May be taken a total of four times. 36 hours lecture and 72 hours laboratory.

ART-35 - Illustration

CSU

Prerequisite: None.

Advisory: ART-17 or 22 or 39.

Introduction to the fundamental concepts and imagery used for advertising and graphic illustration. Exploration of visual communication and commercial art techniques in graphic media, such as ink, airbrush, gouache and markers. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-36 - Computer Art

UC, CSU

Prerequisite: None.

Advisory: ART-17 or 22 and computer experience.

Introduction to using digital media as a tool for creative arts. The exploration of the visual characteristics of electronic imagery. Emphasis will be on the essentials of fine art and design, as it relates to projects solved on the computer and/or other electronic equipment using art related software. Students pay for their own materials. May be taken a total of two times. 36 hours lecture and 72 hours laboratory.

ART-39 - Design and Graphics

CSU

Prerequisite: None.

Advisory: ART-17, 22 or 35.

Fundamental design methodology for visual communication. Exploration of design principles in advertising and layout design. Type and lettering creation and techniques, corporate imagery and portfolio preparation. Students pay for their own materials. 36 hours lecture and 72 hours laboratory.

ART-40 - Figure Drawing

UC, CSU

Prerequisite: ART-17 or 22.

Drawing from the human figure. Students will draw from a live, nude model using a variety of media. Students pay for their own materials. May be taken a total of four times. 36 hours lecture and 72 hours laboratory.

ART-41 - Figure Painting

UC, CSU

Prerequisite: ART-17, 26 or 40.

Painting from the human figure. Students will draw and paint from a live, nude model using a variety of media. Students pay for their own materials. May be taken four times. 36 hours lecture and 72 hours laboratory.
ART-42 - Studio Figure Drawing  
3 units  
UC, CSU  
Prerequisite: ART-40.  
Continued figure drawing studio work with emphasis on individual problems for the self-motivated student. Specific agreement identifying intent, ideas, goals, and media, to be arranged between instructor and student. Subsequent enrollment will provide an opportunity for development and refinement in the art form. Students pay for their own materials. May be taken a total of four times. 36 hours lecture and 72 hours laboratory.

ART-43 - Studio Figure Painting  
3 units  
UC, CSU  
Prerequisite: ART-41.  
Continued figure painting studio work with emphasis on individual problems for the self-motivated student. Specific agreement identifying intent, ideas, goals, and media, to be arranged between instructor and student. Subsequent enrollment will provide an opportunity for development and refinement in the art form. Students are expected to pay for their own materials. May be taken a total of four times. 36 hours lecture and 72 hours laboratory.

ART-44 - Animation Principles  
3 units  
CSU  
Prerequisite: ART-17.  
Advisory: ART-22 and 40.  
Introduction to animation, including the history and the basic concepts of classical animation. Traditional methods such as flip books, storyboards, sequential drawings, layout design, character design, and concept development will be introduced. Students pay for their own materials. May be taken a total of three times. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

ART-48 - Studio Drawing  
3 units  
UC, CSU  
Prerequisite: ART-17 or 18.  
Continued drawing studio work with emphasis on individual problems for the self-motivated student. Specific agreement identifying intent, ideas, goals and media to be arranged between instructor and student. Subsequent enrollment will provide an opportunity for development and refinement in the art form. Students pay for their own materials. May be taken a total of four times. 36 hours lecture and 72 hours laboratory.

ART-50 - Storyboarding  
3 units  
CSU  
Prerequisite: ART-17.  
Advisory: ART-22 and 40.  
Study of animation principles with emphasis on storyboarding. Basic concepts of writing and directing for animation, dialogue and story development will be explored in animation filmmaking. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

ART-51 - Animation Production  
3 units  
CSU  
Prerequisite: ART-17.  
Advisory: ART-22 and 40.  
Study of animation principles and filmmaking with emphasis on animation production. The story structure, visual design elements and film languages will be explored. Students will be assigned a short film project parallel to completing animation exercise assignments. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

ART-200 - Art Work Experience  
1-2-3-4 units  
CSU*  
Prerequisite: None.  
Advisory: Students should have paid or voluntary employment.  
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

BIOLoGY

BIO-1 - General Biology  
4 units  
UC*, CSU  
Prerequisite: None.  
This course is an introductory course designed for non-science majors, which offers an integrated study of the basic principles of biology, with emphasis on the principles of structure and function, genetics, development, evolution, and ecology. Discussions on the philosophy, concepts, and implications of modern biology will be included. 54 hours lecture and 54 hours laboratory.

BIO-2A - General Zoology I, Invertebrates  
5 units  
UC, CSU  
Prerequisite: None.  
Advisory: A high school biological science course.  
A study of invertebrate animals, emphasizing structure, function, behavior, classification, and ecology. Designed for the biology major, pre-veterinary, premed, pre-dental, and naturalist. 54 hours lecture and 108 hours laboratory.

BIO-2B - General Zoology II, Vertebrates  
5 units  
UC, CSU  
Prerequisite: None.  
Advisory: BIO-1, 2A, or a high school biological science course.  
A study of higher animals emphasizing the classification, evolution, and comparative structure of vertebrates, human histology and systems and embryology and genetics. Designed for the biology major, premed, pre-dental, pre-veterinarian, pre-pharmacy, physical therapy, dental hygienist and naturalist. 54 hours lecture and 108 hours laboratory.

BIO-3 - Field Botany  
4 units  
UC, CSU  
Prerequisite: None.  
Introduction to the classification of native and introduced plants, with special emphasis on identification of species. Several field trips. 54 hours lecture and 54 hours laboratory.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>UC, CSU</th>
<th>Prerequisite</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO-5</td>
<td>General Botany</td>
<td>4</td>
<td>UC, CSU</td>
<td>None</td>
<td>Introduction to the plant sciences with principal emphasis on the structures, functions, and ecology of common members of each of the major plant divisions. Designed for majors in health science, forestry, agriculture, environmental science, landscape design, horticulture, and general nature studies. 54 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-6</td>
<td>Introduction to Zoology</td>
<td>4</td>
<td>UC, CSU</td>
<td>None</td>
<td>A study of invertebrate and vertebrate animals emphasizing structure, function, behavior, taxonomy, evolutionary relationships, and ecology. Designed for the non-science major. The laboratory gives students first hand experience with a diversity of animals and scientific experimental design. 54 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-7</td>
<td>Marine Biology</td>
<td>4</td>
<td>UC, CSU</td>
<td>None</td>
<td>An ecological study of the marine environment. Additional emphasis will be placed on the local marine plants and animals and their interactions with the physical environment. Frequent field trips are combined with laboratory observations to acquaint the student with the identification and understanding of the common marine organisms of the Southern California coastline. 54 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-8</td>
<td>Principles of Ecology</td>
<td>4</td>
<td>UC*, CSU</td>
<td>None</td>
<td>Ecology is the study of the interactions between organisms and their environment. Basic principles include evolutionary adaptations, abiotic factors such as climate, soils and vegetation, population growth and genetics, competition, predation and parasitism, community interactions, succession, species diversity, island biogeography, and the major biomes found on Earth. Discussion on human impacts on the environment will also be included. This course requires field trips. 54 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-9</td>
<td>Introduction to the Natural History of So. Cal.</td>
<td>3</td>
<td>UC, CSU</td>
<td>None</td>
<td>This course offers an introduction to the identification, description, and adaptations of indicator plant and animal species found in southern California. Examples of habitat types which will be covered include coastal ranges, local mountains, the upper and lower deserts. This course is designed to offer students an opportunity to discover what factors have shaped habitat types in southern California, and what types of organisms are found in these varying habitats. 36 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-10</td>
<td>Principles of Life Science</td>
<td>3</td>
<td>UC*, CSU</td>
<td>None</td>
<td>For non-life science majors. An introduction to the principles of life sciences through the study of basic biological concepts of living organisms involving structure, behavior, evolutionary relationships and the social and environmental implications of life science. No credit at the University of California if taken following BIO-1. 54 hours lecture.</td>
</tr>
<tr>
<td>BIO-11</td>
<td>Introduction to Molecular and Cellular Biology (Majors)</td>
<td>5</td>
<td>UC*, CSU</td>
<td>CHE-1A or IAH</td>
<td>An intensive course for all Life Science majors designed to prepare the student for upper division courses in molecular biology, cell biology, developmental biology, evolution, and genetics. Course material includes introduction, principles of biochemistry, metabolism, cells, genetics, development, evolution and diversity. 72 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-12</td>
<td>Introduction to Organismal and Population Biology (Majors)</td>
<td>5</td>
<td>UC*, CSU</td>
<td>BIO-11</td>
<td>An intensive course designed for all Life Science majors to prepare the student for upper division courses in organismal and population biology. Course materials include plant structure and function, animal systems and behavior, ecological diversity and dynamics, and evolutionary theory, including population genetics. This course, along with BIO-11, is intended to fulfill a year of transferable lower division general biology. Some field trips are required. 72 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-17</td>
<td>Human Biology</td>
<td>4</td>
<td>UC, CSU</td>
<td>None</td>
<td>A non-major introductory course in biology, which offers an integrated study of the basic principles of biology as revealed in the human body. Emphasis is placed on cellular and system organization in relation to specific function and common disorders affecting the body; the interaction between the human body and its environment. Controversial, thought-provoking topics related to modern biology and medical advances involving genetic engineering will be included. This course is intended to fulfill a transferable general science requirement. 54 hours lecture and 54 hours laboratory.</td>
</tr>
<tr>
<td>BIO-30</td>
<td>Human Reproduction and Sexual Behavior</td>
<td>3</td>
<td>UC, CSU</td>
<td>None</td>
<td>Human anatomy, physiology and behavior as related to sexual reproduction, including discussion of fertilization, pregnancy, childbirth and birth control. Consideration also will be given to homosexuality, venereal disease, sex education, and sexual intercourse and response. 54 hours lecture.</td>
</tr>
</tbody>
</table>
BIO-31A - Regional Field Biology Studies  
CSU  
Prerequisite: None.  
A field course with trips to regional points of biologic interest. This course has field excursions to sites with varying biologic interest. These sites may include, but are not limited to: Joshua Tree National Park, Anza-Borrego State Park, the Salton Sea, Idyllwild mountain range, Big Bear mountain range, Santa Rosa plateau, Corona Del Mar, Tijuana Estuary. May be taken a total of four times. 54 hours laboratory.

BIO-31B - Regional Field Biology Studies  
CSU  
Prerequisite: None.  
A field course with trips to regional points of biologic interest. This course has field excursions to sites with varying biologic interest. These sites may include, but are not limited to: Joshua Tree National Park, Anza-Borrego State Park, the Salton Sea, Idyllwild mountain range, Big Bear mountain range, Santa Rosa plateau, Corona Del Mar, Tijuana Estuary. May be taken a total of four times. 108 hours laboratory.

BIO-34 - Human Genetics  
UC, CSU  
Prerequisite: None.  
Advisory: High school biology or any college life science class with laboratory.  
A general education course for the non-biology major. The mechanisms of human heredity, emphasizing normal and abnormal genetic counseling. 54 hours lecture.

BIO-36 - Environmental Science  
UC*, CSU  
Prerequisite: None.  
A study of humans in relation to the environment, emphasizing population ecology, energy cycles, pollution, food resources, and conservation of natural resources. 54 hours lecture.

BLACK STUDIES  
In cooperation with representatives of the Black community, Riverside Community College District has developed a number of courses designed to meet the special needs and interests of Black students. At the same time, these courses provide an opportunity for other students to develop an understanding of and appreciation for the richness of the Black heritage and its contributions to American life.  
Among these courses are:  
- ENG-20 - Survey of African American Literature  
- SOC-10 - Race and Ethnic Relations

BUSINESS ADMINISTRATION  
BUS-10 - Introduction to Business  
UC, CSU  
Prerequisite: None.  
Scope, function, and organization of contemporary business; fundamentals, concepts, principles, and current practices in the major areas of business activity with an integrated global perspective. 54 hours lecture.

BUS-18A - Business Law, I  
UC*, CSU  
Prerequisite: None.  
The social and practical basis of the law. Covers the legal and ethical environment of business, contracts, agency and employment, and the law of sales. 54 hours lecture.

BUS-18B - Business Law, II  
UC*, CSU  
Prerequisite: None.  
Commercial paper, secured transactions, bankruptcy, agency and employment, business organizations, governmental regulations, international law, real and personal property and trusts and estates. 54 hours lecture.

BUS-20 - Business Mathematics  
UC*, CSU  
Prerequisite: None.  
Application of fundamental problem solving concepts, techniques, and skills relating to quantitative aspects of business. The development and solution of first degree equations relating to percentage, merchandise pricing, negotiable instruments, credit, depreciation, and inventory will be emphasized. 54 hours lecture.

BUS-22 - Management Communications  
CSU  
Prerequisite: None.  
Examines the dynamics of organizational communication including a cross cultural emphasis. Practical experience is attained in verbal, non-verbal and interpersonal communication. Includes business report writing, letter writing and resume writing. 54 hours lecture.

BUS-30 - Entrepreneurship and Small Business Management  
CSU  
Prerequisite: None.  
An examination of the American enterprise system, the nature and extent of American business, opportunities in business, and types of business organizations such as sole proprietorships, partnerships, and corporations. The course will particularly focus on the entrepreneur, the opportunity and the resources, pulling it all together with a business plan. 54 hours lecture.

BUS-43 - International Business-Marketing  
CSU  
Prerequisite: None.  
Advisory: BUS-10 or MKT-20.  
Presents the problems of marketing in the international marketplace and how marketers approach and solve them. The course focuses on concepts and principles by teaching the theory and practice of international marketing. Included are: the United States international marketing position, market entry strategies, analysis of foreign markets, culture and marketing, product, pricing, distribution, promotion and sales. 54 hours lecture.

BUS-47 - Applied Business and Management Ethics  
CSU  
Prerequisite: None.  
An examination of ethical concerns in business decision making. Includes corporate, personal, global, governmental, public, environmental, product, and job-related issues. Case studies and corporate ethics programs and audits also covered. 54 hours lecture.
BUS-70 - Introduction to Organization Development 3 units (Same as MAG-70)  
Prerequisite: None.  
Advisory: MAG-44.  
This is a study of organization-wide, planned efforts to increase organizational effectiveness using planned interventions by managers. Multiple intervention techniques, such as diagnostic activities, team building, process consulting, coaching and goal setting are covered. 54 hours lecture.

BUS-80 - Principles of Logistics 3 units  
Prerequisite: None.  
A study of the basic concepts in product distribution including distribution planning and terminology, transportation methods, traffic management, inventory control and warehousing. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

BUS-81 - Inventory Control 1.5 units  
Prerequisite: None.  
Review of the concepts and techniques available for planning and controlling inventories. 27 hours lecture. (Letter Grade, or Pass/No Pass option.)

BUS-82 - Freight Claims 1.5 units  
Prerequisite: None.  
A study of loss avoidance and mitigation in transit and the preparation, filing and resolution of freight claims. 27 hours lecture. (Letter Grade, or Pass/No Pass option.)

BUS-83 - Contracts 1.5 units  
Prerequisite: None.  
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. 27 hours lecture. (Letter Grade, or Pass/No Pass option.)

BUS-84 - Computerized Logistics 1.5 units  
Prerequisite: None.  
A study of the need for and use of computers in the logistics and freight industry and an introduction to the software that is available. 27 hours lecture. (Letter Grade, or Pass/No Pass option.)

BUS-85 - Warehouse Management 3 units  
Prerequisite: None.  
Analysis of warehouse functions and management including facility location and operation, financial analysis, security, cargo handling, and productivity improvement and measurement. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

BUS-86 - Transportation and Traffic Management 3 units  
Prerequisite: None.  
A study of the domestic freight transportation system including the demand for freight movement, laws, regulations, pricing and policies, traffic management and international transportation issues. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

BUS-90 - International Logistics 3 units  
Prerequisite: None.  
An introduction to the role of logistics in global business; including the economic and service characteristics of international transportation providers, the government’s role, documentation and terms of sale used in global business, and the fundamentals of effective export and import management. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

CHE-1A - General Chemistry, I 5 units  
Prerequisite: CHE-2A or 3 and MAT-35.  
The student will explore simple chemical systems, their properties and how they can be investigated and understood in terms of stoichiometry, gas laws, elementary thermodynamics, atomic structure and bonding. Laboratory techniques in the investigation of chemical systems. Students may not receive credit for both CHE-1A and CHE-1AH. 54 hours lecture and 108 hours laboratory.

CHE-1B - General Chemistry, II 5 units  
Prerequisite: CHE-1A or 1AH.  
Continued exploration of the principles of chemistry with emphasis on kinetics, thermodynamics, acid-base theory, equilibrium and electrochemistry. Special topics from descriptive inorganic chemistry, nuclear chemistry and introductory organic chemistry. Laboratory techniques in the investigation of chemical systems. Students may not receive credit for both CHE-1B and CHE-1BH. 54 hours lecture and 108 hours laboratory.
CHE-2A - Introductory Chemistry, I
4 units
UC*, CSU
Prerequisite: MAT-52.
Introduction to the nature of chemicals, their properties, chemical bonding, reactions and mixtures. Applications to health and environmental topics. Fulfills the needs of non-science majors. 54 hours lecture and 54 hours laboratory.

CHE-3 - Fundamentals of Chemistry
4 units
UC*, CSU
Prerequisite: MAT-52.
A systematic presentation of the chemical, mathematical, and laboratory skills underlying chemistry. Topics will include stoichiometry, bonding, reactions and solutions. Designed primarily as preparation for Chemistry 1A. 54 hours lecture and 54 hours laboratory.

CHE-10 - Chemistry for Everyone
3 units
UC*, CSU
Prerequisite: None.
A lecture-demonstration presentation of the basic principles of chemistry with special emphasis on how chemistry applies and contributes to society. The course is designed to provide a general overview of chemistry with emphasis on historical, industrial, environmental, organic, biological and nuclear aspects. CHE-10 covers a wide variety of topics ranging from atoms and molecules, acids and bases, organic and biochemistry, to a look at genetics and nuclear chemistry. The chemistry of air and water pollution is also discussed. This course is designed for students desiring a general knowledge of the field and fulfills the natural science requirement for the Associate of Arts Degree. 54 hours lecture.

CHE-12A - Organic Chemistry, I
5 units
UC, CSU
Prerequisite: CHE-1B or 1BH.
A discussion of aliphatic hydrocarbons that focuses on their structure, reactivity, methods of synthesis, physical properties, and reaction mechanisms. Laboratory work emphasizes techniques used to identify, separate, and purify substances. 54 hours lecture and 108 hours of laboratory.

CHE-12B - Organic Chemistry, II
5 units
UC, CSU
Prerequisite: CHE-12A.
Continues discussion based on the content of CHE-12A. Develops a detailed study of nucleophilic and elimination reactions from a mechanistic viewpoint. Aliphatic and aromatic chemistry will be fully integrated throughout CHE-12B. Considerable emphasis on synthesis. Laboratory includes techniques of syntheses, separation, and identification of several compounds, and an introduction to qualitative organic analysis. 54 hours lecture and 108 hours laboratory.

CHE-2B - Organic Chemistry, II
5 units
UC, CSU
Prerequisite: CHE-12A.
Continues discussion based on the content of CHE-12A. Develops a detailed study of nucleophilic and elimination reactions from a mechanistic viewpoint. Aliphatic and aromatic chemistry will be fully integrated throughout CHE-12B. Considerable emphasis on synthesis. Laboratory includes techniques of syntheses, separation, and identification of several compounds, and an introduction to qualitative organic analysis. 54 hours lecture and 108 hours laboratory.

CHE-12B - Organic Chemistry, II
5 units
UC, CSU
Prerequisite: CHE-12A.
Continues discussion based on the content of CHE-12A. Develops a detailed study of nucleophilic and elimination reactions from a mechanistic viewpoint. Aliphatic and aromatic chemistry will be fully integrated throughout CHE-12B. Considerable emphasis on synthesis. Laboratory includes techniques of syntheses, separation, and identification of several compounds, and an introduction to qualitative organic analysis. 54 hours lecture and 108 hours laboratory.

CHE-2B - Organic Chemistry, II
5 units
UC, CSU
Prerequisite: CHE-12A.
Continues discussion based on the content of CHE-12A. Develops a detailed study of nucleophilic and elimination reactions from a mechanistic viewpoint. Aliphatic and aromatic chemistry will be fully integrated throughout CHE-12B. Considerable emphasis on synthesis. Laboratory includes techniques of syntheses, separation, and identification of several compounds, and an introduction to qualitative organic analysis. 54 hours lecture and 108 hours laboratory.

CHICANO STUDIES
Several courses have been developed to meet the special needs of Chicano (Mexican-American) students. In varying degrees, these seek to (1) establish the Chicano student’s identity with the culture, the history, and the elements of the Chicano lifestyle today; (2) provide all Riverside Community College District students with objective, well-planned courses involving the often neglected multiracial aspects of American society; and (3) offer learning experiences that will develop and improve scholastic abilities.

Among these courses are:
- ANT-5 - Native Peoples of Mexico
- ESL-54 - Intermediate Writing and Grammar
- ESL-55 - Advanced Writing and Grammar
- ESL-73 - High Intermediate Reading and Vocabulary
- ESL-93 - Oral Skills III: Advanced Oral Communications
- HIS-25 - History of Mexico
- SOC-10 - Race and Ethnic Relations

COMMUNICATION STUDIES
SEE SPEECH COMMUNICATIONS

COMPUTER APPLICATIONS AND COMPUTER TECHNOLOGY

CAT-1A - Business Etiquette
1 unit
Prerequisite: None.
This course provides students with both the knowledge and skills required to quickly apply business standards of acceptable behavior and etiquette to project a professional image. The following communication techniques are taught for an effective professional standard: dialog, discussion, cooperation, compromise, self-knowledge and knowledge of others. 18 hours lecture.

CAT-3 - Computer Applications for Working Professionals
3 units
(Same as CIS-3)
Prerequisite: None.
This course introduces a suite of computer applications to students preparing to enter business, office, and teaching professions. Individuals who are already established in these professions may also benefit from skills emphasized which include: use of basic operating system functions, word processing, spreadsheets, database management, presentation graphics, scheduling/time management, basic Internet, and introducing scanning/management of documents and images. 54 hours lecture and 18 hours laboratory.

CAT-30 - Business English
3 units
Prerequisite: None.
Advisory: Typing skills and familiarity with Microsoft Word.
Examines the mechanics of business communications. Includes a study of grammar fundamentals, sentence structure, punctuation, vocabulary, and spelling. 54 hours lecture.
CAT-30A - Business English 30A 1 unit
Prerequisite: None.
Advisory: Typing skills and familiarity with Microsoft Word.
Examines the mechanics of business communications; includes a study of grammar fundamentals, sentence structure, punctuation, vocabulary, and spelling. CAT-30A is equivalent to the first third of CAT-30. 18 hours lecture.

CAT-30B - Business English 30B 1 unit
Prerequisite: CAT-30A.
This intermediate-level course is designed to provide students with instruction in vocabulary and spelling, possession, pronouns, verbs, punctuation, and business communications. CAT-30B is equivalent to the second third of CAT-30. 18 hours lecture.

CAT-30C - Business English 30C 1 unit
Prerequisite: None.
Advisory: Typing skills and familiarity with Microsoft Word.
Examines the mechanics of business communications; includes a study of grammar fundamentals, sentence structure, punctuation, vocabulary, and spelling. CAT-30C is equivalent to the last third of CAT-30. 18 hours lecture.

CAT-31 - Business Communications 3 units
CSU
Prerequisite: None.
Advisory: CAT-30, or concurrent enrollment.
This course is designed to teach the fundamentals of written and oral communication in business by providing specific practical applications. Emphasis will be on written and oral communications, stressing the most common forms of correspondence. 54 hours lecture.

CAT-34A - Introduction to Microsoft Word for Windows 1.5 units (Same as CIS-34A)
CSU
Prerequisite: None.
Skill development in the use of Microsoft Word for Windows for word processing. For non-Computer Applications and Office Technology majors. 27 hours lecture and 18 hours laboratory.

CAT-34B - Intermediate Microsoft Word for Windows 1.5 units (Same as CIS-34B)
CSU
Prerequisite: None.
Advisory: CAT-3 or 34A.
Provides a continuation of instruction in Microsoft Word for Windows to students who have taken the introductory level and would like to further their skills in word processing applications. For non-Computer Applications and Office Technology majors. 27 hours lecture and 18 hours laboratory.

CAT-53 - Keyboarding/Typing Fundamentals 1 unit
Prerequisite: None.
Develops basic alpha/numeric keyboarding/touch typewriting skills on an electronic keyboard. Designed primarily for individuals needing basic keyboarding skill to input and retrieve information from a microcomputer. Develops a straight-copy rate of 20 gross words a minute. 18 hours lecture and 18 hours laboratory.

CAT-54A - Introduction to Flash (Same as CIS-54A) 3 units
Prerequisite: None.
Advisory: Competency in the use of a computer and familiarity with the Internet; CAT-95A.
This course provides students with the essential knowledge and skills required to use Flash. This includes instruction on the authoring tools, drawing tools, working with symbols, creating interactive buttons and streaming sound. 54 hours lecture and 18 hours laboratory.

CAT-56A - Designing Web Graphics 3 units (Same as CIS-56A)
Prerequisite: None.
Advisory: Competency in the use of a computer and familiarity with the Internet.
This course provides students with the knowledge and skills required to create, modify and prepare visual elements for placement within web pages. Focus on the understanding of file compression, color palettes, visual design and layout principles. The course uses Adobe PhotoShop and ImageReady. 54 hours lecture and 18 hours laboratory.

CAT-60 - Introduction to Microsoft Access 1.5 units (Same as CIS-60)
Prerequisite: None.
Introduction to database management using Microsoft Access. Creating a database, sorting, indexing, creating reports and forms will be covered. 27 hours lecture and 18 hours laboratory.

CAT-61 - Professional Office Procedures 3 units
Prerequisite: None.
Advisory: CAT-3, 31 and 51.
Mastering procedures for the office professional through the development of: business communications, team building, business ethics, word processing, database management, spreadsheets, presentation techniques and general office skills. 54 hours lecture.

CAT-62 - Records Management 3 units
Prerequisite: None.
Advisory: Knowledge of database management.
Examines the basic procedures covering alphabetical, numerical, geographical, subject, and chronological filing. Introduces records and database management and the management, control, and retention thereof, both manually and electronically. 54 hours lecture and 18 hours laboratory.

CAT-65 - Introduction to Microsoft PowerPoint 1.5 units (Same as CIS-65)
Prerequisite: None.
Introduction to Microsoft PowerPoint presentation graphics program. Creation of overhead transparencies, electronic presentations or formal presentations media. 27 hours lecture and 18 hours laboratory.
CAT-76A - Introduction to Microsoft Expression Web  3 units
(Same as CIS-76A)
Prerequisite: None.
Advisory: Competency in using the Internet and in managing files and folders; CAT-95A.
This course introduces students to the knowledge and skills required to quickly design and implement webpages, and to administer and update existing websites using Microsoft Expression Web. The course uses Microsoft Expression Web to streamline and automate website management on a website. 54 hours lecture and 18 hours laboratory.

CAT-76B - Introduction to Dreamweaver  3 units
(Same as CIS-76B)
Prerequisite: None.
Advisory: Competency in the use of a computer and familiarity with the Internet; CAT-95A.
This course introduces students to the knowledge and skills required to quickly design and implement webpages and to administer and update existing websites using Dreamweaver. The course uses Dreamweaver to streamline and automate website management on a website. 54 hours lecture and 18 hours laboratory.

CAT-78A - Introduction to Adobe Photoshop  3 units
(Same as CIS-78A)
Prerequisite: None.
This course introduces students to the knowledge and skills required to quickly design and implement webpages and to administer and update existing websites using Adobe Photoshop. The course uses Adobe Photoshop to streamline and automate website management on a website. 54 hours lecture and 18 hours laboratory.

CAT-78B - Advanced Adobe Photoshop  3 units
(Same as CIS-78B)
Prerequisite: CAT-78A.
Advanced techniques and methods for using Adobe Photoshop to produce custom graphic solutions. Focus on real-world projects, workflow foundations, adjusting, and optimizing images, and tips and tricks for enhanced image creation. 54 hours lecture and 18 hours laboratory.

CAT-79 - Introduction to Adobe Illustrator  3 units
(Same as CIS-79)
Prerequisite: None.
Fundamentals of Adobe Illustrator, including creating objects, drawing paths and designing with type, creating freehand drawing and illustration, importing and working with graphics. Develop a working knowledge of the processes that generate graphic images: layering, shadowing, and color use. 54 hours lecture and 18 hours laboratory.

CAT-80 - Word Processing: Microsoft Word for Windows  3 units
(Same as CIS-80)
Prerequisite: None.
Advisory: Typing knowledge/skills with at least 40 wpm.
This course is designed to provide introductory, intermediate and advanced skill levels necessary to produce a variety of professional documents using Microsoft Word word processing program. Students will develop skills in word processing techniques and tasks. 54 hours lecture and 18 hours laboratory.

CAT-81 - Introduction to Desktop Publishing using Adobe InDesign  3 units
(Same as CIS-81)
Prerequisite: None.
Page design and layout techniques using Adobe InDesign. Mastery of beginning and intermediate techniques of document creation, including design skills. Successful incorporation of drawing and bit mapped files to create professional printed media. 54 hours lecture and 18 hours laboratory.

CAT-88 - Internships in Computer Applications and Office Technology  3 units
Prerequisite: None.
Advisory: CAT-3 and 51.
Limitation on enrollment: Computer Applications and Office Technology majors and certificate students. Internship class is for students who have declared a Computer Applications and Office Technology major, have taken classes in the major, and are ready for on-the-job experience in a paid or unpaid position. Students will acquire new knowledge, skills, and abilities to prepare for a career in their chosen field. Placement is arranged through the instructor and with student assistance. Internship participation requirements may vary with the job setting. May be taken up to four times for a maximum of twelve units of credit. 27 hours lecture and a minimum of 90 hours internship.

CAT-93 - Computers for Beginners  3 units
(Same as CIS-93)
Prerequisite: None.
This course is designed as a practical, step-by-step introduction to computer literacy topics including computer hardware and software, application skills, the Internet and Internet searching, Web page creation and computer ethics. 54 hours lecture and 18 hours laboratory.

CAT-95A - Introduction to Internet  1.5 units
(Same as CIS-95A)
Prerequisite: None.
Skill development in the concepts of the Internet on microcomputer-based systems. This course is designed as a practical, step-by-step introduction to working with the Internet using personal computers. 27 hours lecture.

CAT-98A - Introduction to Excel  1.5 units
(Same as CIS-98A)
Prerequisite: None.
Skill development in electronic spreadsheets using Excel for business and scientific related applications. 27 hours lecture and 18 hours laboratory.

CAT-98B - Advanced Excel  1.5 units
(Same as CIS-98B)
Prerequisite: CAT-98A.
Advanced concepts of MS-Excel including managing large spreadsheets, creating and working with databases, creating and using templates and macro creation. Spreadsheet manipulation with advanced macro techniques, customizing Excel screen and toolbars and solving problems with goal seeker and solver. 27 hours lecture and 18 hours laboratory.
CAT-200 - Computer Applications and Office Technology Work Experience 1-2-3-4 units
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

COMPUTER INFORMATION SYSTEMS
CIS-1A - Introduction to Computer Information Systems 3 units
UC, CSU
Prerequisite: None.
An introduction to computer concepts, theory and computer applications. Functions and capabilities of word processors, spreadsheets, databases, presentation graphics and the Internet are covered through lecture, discussion and hands-on computer assignments. Concepts covered include types of software, hardware components, and operating systems with an emphasis on terminology and functionality. 54 hours lecture and 18 hours laboratory.

CIS-1B - Advanced Concepts in Computer Information Systems 3 units
CSU
Prerequisite: CIS-1 or 1A.
Advanced computer concepts, theory and computer applications. Advanced skills of word processing, spreadsheets, presentation graphics, the Internet and databases with an emphasis on multitasking, integrating applications, linking and embedding are covered. Concepts covered include communications and networks, E-Commerce, ethical issues, security, privacy, databases and information management, information systems development, program development and programming languages, computer careers and certification. 54 hours lecture and 18 hours laboratory.

CIS-2 - Fundamentals of Systems Analysis 3 units
(C Same as CSC-2)
CSU
Prerequisite: None.
Study of structured systems analysis techniques. Course includes the identification of problems, fact gathering, report analysis, system/data flow analysis, screen/forms design, creation of user documentation/reports, and completion of written and verbal presentations and the use of CASE tools. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CIS-3 - Computer Applications for Working Professionals 3 units
(Same as CAT-3)
CSU
Prerequisite: None.
This course introduces a suite of computer applications to students preparing to enter business, office, and teaching professions. Individuals who are already established in these professions may also benefit from skills emphasized which include: use of basic operating system functions, word processing, spreadsheets, database management, presentation graphics, scheduling/time management, basic Internet, and introducing scanning/management of documents and images. 54 hours lecture and 18 hours laboratory.

CIS-5 - Fundamentals of Programming Logic using C++ 3 units
(Same as CSC-5)
UC, CSU
Prerequisite: None.
Advisory: CIS-1A.
Introduction to the fundamentals of problem definition, algorithm development, and structured programming logic for business, scientific and mathematical applications. The C++ language will be used for programming problems. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CIS-11 - Computer Programming using ASSEMBLER 3 units
(Same as CSC-11)
UC, CSU
Prerequisite: None.
Advisory: CIS/CSC-5
This course is an introduction to microprocessor architecture and assembler language. The relationship between the hardware and the software will be studied in order to understand the interaction between a program and the total system. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CIS-12 - PHP Dynamic Web Site Programming 3 units
(Same as CSC-12)
CSU
Prerequisite: None.
Advisory: Programming fundamentals such as in CIS/CSC-5 or 14A, and familiarity with HTML such as in CIS-14A or 72A.
Dynamic Web site programming using PHP. Fundamentals of server-side Web programming. Introduction to database-driven Web sites, using PHP to access a database such as MySQL. Web applications such as user registration, content management, and e-commerce. This course is for students already familiar with the fundamentals of programming and HTML. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)
CIS-14A - Web Programming: JavaScript 3 units
(= Same as CSC-14A)
CSU
Prerequisite: None.
Advisory: Previous programming experience and knowledge of HTML.
CIS/CSC-5 and 72A.
Fundamentals of JavaScript programming for the World Wide Web for
students already familiar with the fundamentals of programming and
HTML. Language features will include control structures, functions,
arrays, JavaScript objects, browser objects and events. Web applications
will include image rollovers, user interactivity, manipulating browser
windows, form validation and processing, cookies, creating dynamic
content and Dynamic HTML programming. 54 hours lecture and 18
hours laboratory. (Letter Grade, or Pass/No Pass option.)

CIS-14B - Web Programming: Active Server Pages 3 units
(= Same as CSC-14B)
CSU
Prerequisite: None.
Advisory: CIS/CSC-5, 15A and CIS-72A.
Fundamentals of server-side Web programming using Active Server
Pages (ASP) for students already familiar with the fundamentals of
programming and HTML. Language features will include control
structures, functions, arrays, collections, objects and events. Focus
on server-side programming to generate dynamic web content and
database access. 54 hours lecture.

CIS-16A - Programming Games with DirectX and OpenGL 3 units
(= Same as CSC-16A)
CSU
Prerequisite: None.
Advisory: Previous C++ programming experience such as CIS/CSC-17A.
This is an advanced C++ programming course using DirectX and OpenGL
to create games and high-performance multimedia applications. An
emphasis will be placed on advanced programming concepts associated
with two-dimensional and three-dimensional graphics, sound effects
and music, input devices and networking applications. 54 hours lecture and
18 hours laboratory.

CIS-17A - C++ Programming: Objects 3 units
(= Same as CSC-17A)
UC, CSU
Prerequisite: None.
Advisory: Previous programming experience writing functions arrays
on PC platforms as well as CIS/CSC-5.
A comprehensive study of the syntax and semantics of the C++
language and the methodology of Object-Oriented program
development. 54 hours lecture and 18 hours laboratory. (Letter Grade,
or Pass/No Pass option.)

CIS-17B - C++ Programming: Advanced Objects 3 units
(= Same as CSC-17B)
UC, CSU
Prerequisite: None.
Advisory: Previous C++ programming experience such as CIS/CSC-17A.
This is an advanced C++ programming course for students familiar
with object-oriented programming and utilization of basic graphical
interface techniques. An emphasis will be placed on advanced concepts
associated with complex Business and Gaming applications that
utilize exception handling, multithreading, multimedia, and database
connectivity. 54 hours lecture and 18 hours laboratory. (Letter Grade,
or Pass/No Pass option.)

CIS-17C - C++ Programming: Data Structures 3 units
(= Same as CSC-17C)
UC, CSU
Prerequisite: None.
Advisory: Previous programming experience in C++ and object-
oriented programming as well as CIS/CSC-17A.
This course offers a thorough presentation of the essential principles
and practices of data structures using the C++ programming language.
The course emphasizes abstract data types, software engineering
principles, lists, stacks, queues, trees, graphs and the comparative
analysis of algorithms. 54 hours lecture and 18 hours laboratory. (Letter
Grade, or Pass/No Pass option.)

CIS-18A - Java Programming: Objects (Same as CSC-18A) 3 units
UC, CSU
Prerequisite: None.
Advisory: Previous Java programming experience such as CIS/CSC-18A.
This is an advanced JAVA programming course for students familiar
with object-oriented programming and utilization of basic graphical
interface techniques. An emphasis will be placed on advanced concepts
associated with business, e-commerce and gaming applications that
utilize exception handling, multithreading, multimedia, and database
connectivity. 54 hours lecture and 18 hours laboratory. (Letter Grade,
or Pass/No Pass option.)

CIS-18B - Java Programming: Advanced Objects 3 units
(= Same as CSC-18B)
UC, CSU
Prerequisite: None.
Advisory: Previous JAVA programming experience such as CIS/CSC-18A.
This is an advanced JAVA programming course for students familiar
with object-oriented programming and utilization of basic graphical
interface techniques. An emphasis will be placed on advanced concepts
associated with business, e-commerce and gaming applications that
utilize exception handling, multithreading, multimedia, and database
connectivity. 54 hours lecture and 18 hours laboratory. (Letter Grade,
or Pass/No Pass option.)

CIS-18C - Java Programming: Data Structures 3 units
(= Same as CSC-18C)
UC, CSU
Prerequisite: None.
Advisory: Previous Java programming experience as well as CIS/
CSC-18A.
This course is designed to be an advanced Java programming course
for students familiar with object-oriented programming and database
concepts. The major emphasis will be related to concepts of storing
and retrieving data efficiently, which are the essential principles and
practices of data structures. 54 hours lecture and 18 hours laboratory.
(Letter Grade, or Pass/No Pass option.)

CIS-20 - Systems Analysis and Design 3 units
(= Same as CSC-20)
CSU
Prerequisite: CIS/CSC-2.
Advisory: Students should have a working knowledge of MS Access.
Structured design techniques for the development and implementation
of computerized business applications. Course includes project
planning, analysis of current system, design of a new system,
implementation, consideration of data base design and development,
file organization, and modular programming techniques. 54 hours
lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)
CIS-21 - Introduction to Operating Systems  3 units
(Same as CSC-21)
CSU
Prerequisite: CIS-1A.
An introduction to operating system concepts, structure, functions, performance and management is covered. A current operating system, such as DOS, OS/2, UNIX, NT or Windows is used as a case study. File multi-processing, system security, device management, network operating systems, and utilities are introduced. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CIS-28A - MS Access Programming  3 units
(Same as CSC-28A)
CSU
Prerequisite: None.
Advisory: CIS/CSC-5.
Use of the data management program, MS Access, in writing command file programs to automate database management applications with the use of Visual Basic Applications variables, expressions and functions. This course shows students how event driven programs operate. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CIS-35 - Introduction to Simulation and Game Development  3 units
(Same as CSC-35)
CSU
Prerequisite: None.
An introduction to the field of simulation and computer gaming. Course provides an introductory look at the fundamentals of simulation and computer games used in various industries—entertainment, military, finance, medical, education, and law enforcement. Topics include licensing and franchising, marketing, business development, game design, storytelling, and development life cycle. 54 hours lecture and 18 hours laboratory.

CIS-36 - Introduction to Computer Game Design  3 units
(Same as CSC-36)
CSU
Prerequisite: None.
An introduction to the fundamental techniques, concepts, and vocabulary of computer game design. Students will explore analog game design principles and apply modern game design and development methodologies and principles to create their own electronic games. Topics include game genres, design documents, and game design principles such as level design, gameplay, balancing and user interface design. 54 hours lecture and 18 hours laboratory.

CIS-37 - Beginning Level Design for Computer Games  3 units
(Same as CSC-37)
CSU
Prerequisite: None.
An introduction to the fundamental techniques, concepts, and vocabulary of computer game level design. Students will create environments, place objects in those environments, and control those objects via a scripting language. Topics include frame rate, game flow and pacing. Students will create 3D computer games using a game engine such as Unreal. No previous computer programming experience is required. 54 hours lecture and 18 hours laboratory.

CIS-38A - Simulation and Gaming/3D Modeling for Real-Time Interactive Simulations  4 units
(Same as CSC-38A)
CSU
Prerequisite: None.
Create computationally efficient 3D digital models of both living and inanimate objects and then implement them in a real-time interactive simulation or video game. Topics include model construction using triangulated meshes and splines, applying basic surface detailing, understanding how model design effects computing performance, importing vertex and edge vectors into a game engine, and applying basic user and game world interactivity to one or more rigid bodies. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.

CIS-38B - Simulation and Gaming/3D Animation for Real-Time Interactive Simulations  4 units
(Same as CSC-38B)
CSU
Prerequisite: CIS/CSC-38A.
Animate both living and inanimate objects created with a 3D modeling program and then implement them in a real-time interactive simulation or video game. Topics include linear and non-linear attribute interpolation, path, forward and reverse kinematics animation. Additional topics include understanding how animation parameters affect computing performance, importing vertex and edge vectors into a game engine, and applying basic user and game world interactivity to a rigid body. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.

CIS-38C - Simulation and Gaming/3D Dynamics and Rendering for Real-Time Interactive Simulations  4 units
(Same as CSC-38C)
CSU
Prerequisite: CIS/CSC-38B.
Create dramatic cinematic sequences based on 3D animations of both living and inanimate objects. Topics include combining animated models with simulations of real world dynamics such as wind, water, fire, smoke, and gravity. Short animated sequences will be modeled, animated, and then rendered into frames. Hardware and software rendered frames will then be composited and added to a game engine. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.

CIS-39 - Current Techniques in Game Art  4 units
CSU
Prerequisite: None.
Advisory: Ability to manipulate graphics including layers and textures with Photoshop or concurrent enrollment in CIS-78A or ADM-71.
Introduction to the fundamental techniques, concepts, and vocabulary of advanced sculpting for Game Art, Animation, Concept Art, and Digital Illustration. Students will modify 3D models, and create textured compositions as applied to video games, animation and concept art. 54 hours lecture and 54 hours laboratory.

CIS-43 - Survey of Media Art  3 units
for Game Design/Animation
Prerequisite: ART-17, CIS/CSC-38A and CAT/CIS-78A.
Survey of industry concepts, techniques, and applications for multimedia, game art, animation, and concept art. Students will learn graphic styles for interface design, texturing techniques for 3D models, digital painting techniques for stylized concept art, digital background and layout design as it applies to video games and animation. 36 hours lecture and 54 hours laboratory.
CIS-44 - Portfolio Production 3 units
Prerequisite: CIS/CSC-38A, 38B and 38C.
Creative organization and presentation of a body of work exhibiting portfolio-quality aptitude. Covers all aspects of creation and presentation of a professional portfolio including compositing, audio and video editing skills required to present the body of work in 3D modeling, animation or concept art. Students will edit existing work to emphasize individual strengths and areas of specialization. Compilation of a professional resume and mock interviews will be completed by each student. 36 hours lecture and 54 hours laboratory.

CIS-54A - Introduction to Flash 3 units
(Same as CAT-54A)
Prerequisite: None.
Advisory: Competency in the use of a computer and familiarity with the Internet; CIS-95A.
This course provides students with the essential knowledge and skills required to use Flash. This includes instruction on the authoring tools, drawing tools, working with symbols, creating interactive buttons and streaming sound. 54 hours lecture and 18 hours of laboratory.

CIS-56A - Designing Web Graphics 3 units
(Same as CAT-56A)
Prerequisite: None.
Advisory: Competency in the use of a computer and familiarity with the Internet.
This course provides students with the knowledge and skills required to create, modify and prepare visual elements for placement within web pages. Focus on the understanding of file compression, color palettes, visual design and layout principles. The course uses Adobe Photoshop and ImageReady. 54 hours lecture and 18 hours laboratory.

CIS-60 - Introduction to Microsoft Access 1.5 units
(Same as CAT-60)
Prerequisite: None.
Introduction to database management using Microsoft Access. Creating a database, sorting, indexing, creating reports and forms will be covered. 27 hours lecture and 18 hours laboratory.

CIS-61 - Introduction to Database Theory 3 units
(Same as CSC-61)
Prerequisite: None.
This course provides a comprehensive introduction to the design and development of professional database management systems. This course will demonstrate how to build database structures using “Entity-Relationship” models and relationships. The student will encounter design and development techniques for work groups and enterprise level database models. The course will cover the Systems Development Life Cycle, as well as data validation, business rules, security and disaster recovery techniques. 54 hours lecture.

CIS-62 - Microsoft Access DBMS: Comprehensive 3 units
(Same as CSC-62)
Prerequisite: None.
This course provides a comprehensive introduction to the implementation of database management systems using Microsoft Access. The student will be provided hands-on experience in modeling work problems and transforming them to a relational data model. The student will design data tables to efficiently store data. The student will be shown techniques for entering, changing and deleting data using datasheets and forms. The student will learn to filter and modify data using queries and to output data using both forms and reports. Access macros will be applied to forms and reports. The student will be presented with database projects to reinforce their lectures. 54 hours lecture and 18 hours laboratory.

CIS-63 - Introduction to Structured Query Language (SQL) 3 units
(Same as CSC-63)
Prerequisite: None.
This course provides an introduction to the relational database management system industry standard – Structured Query Language (SQL.) Students will analyze, design and implement database schema using the SQL programming language. SQL will be utilized to develop a database structure (DDL.) The student will use SQL to create both SELECT and action queries (DML.) JOINS, UNIONS, DIFFERENCES and subquery statements will be covered. Both the Access and Oracle DBMS SQL statements will be covered. 54 hours lecture and 18 hours laboratory.

CIS-65 - Introduction to Microsoft PowerPoint 1.5 units
(Same as CAT-65)
Prerequisite: None.
Introduction to Microsoft PowerPoint presentation graphic program. Creation of overhead transparencies, electronic presentations or formal presentations media. 27 hours lecture and 18 hours laboratory.

CIS-72A - Introduction to Web Page Creation 1.5 units
Prerequisite: None.
Advisory: Competency in the use of a computer, familiarity with the Internet; CIS-95A.
An introduction to webpage creation using Extensible Hypertext Markup Language (XHTML). Use XHTML to design and create webpages with formatted text, hyperlinks, lists, images, tables, frames and forms. 27 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CIS-72B - Intermediate Web Page Creation using Cascading Style Sheets (CSS) 1.5 units
Prerequisite: None.
Advisory: Knowledge of HTML and the Internet; CIS-72A and 95A.
Intermediate webpage creation using cascading style sheets (CSS) to format and lay out webpage content. CSS works with HTML, so HTML knowledge is recommended. Inline styles, embedded styles, and external style sheets are covered. CSS is used to format text, links, set fonts, colors, margins and position text and graphics on a page. CSS is also a component of Dynamic HTML. 27 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)
CIS-72C - Introduction to XML  
**Prerequisite:** None.  
**Advisory:** Knowledge of HTML and CSS.  
Introduction to XML (Extensible Markup Languages) on the World Wide Web. Understand and create XML documents, and explore the various applications of the XML technology. 27 hours lecture.

CIS-76A - Introduction to Microsoft Expression Web  
**Prerequisite:** None.  
**Advisory:** Competency in using the Internet and in managing files and folders; CIS-95A.  
Provides students with the knowledge and skills required to quickly design and implement webpages, and to administer and update existing websites using Microsoft Expression Web. The course uses Microsoft Expression Web to streamline and automate website management on a website. 54 hours lecture and 18 hours laboratory.

CIS-76B - Introduction to Dreamweaver  
**Prerequisite:** None.  
**Advisory:** Competency in the use of a computer and familiarity with the Internet; CIS-95A.  
This course provides students with the knowledge and skills required to quickly design and implement webpages and to administer and update existing websites using Dreamweaver. The course uses Dreamweaver to streamline and automate website management on a website. 54 hours lecture and 18 hours laboratory.

CIS-78A - Introduction to Adobe Photoshop  
**Prerequisite:** None.  
Introduction to Adobe Photoshop including mastery of digital image editing, techniques for selecting, photo correction, manipulating images and vector drawing. This course also provides instruction in retouching images, special effects, working with image color and web page illustrations. 54 hours lecture and 18 hours laboratory.

CIS-78B - Advanced Adobe Photoshop  
**Prerequisite:** CIS-78A.  
Advanced techniques and methods for using Adobe Photoshop to produce custom graphic solutions. Focus on real-world projects, workflow foundations, adjusting, and optimizing images, and tips and tricks for enhanced image creation. 54 hours lecture and 18 hours laboratory.

CIS-79 - Introduction to Adobe Illustrator  
**Prerequisite:** None.  
Fundamentals of Adobe Illustrator, including creating objects, drawing paths and designing with type, creating freehand drawing and illustration, importing and working with graphics. Develop a working knowledge of the processes that generate graphic images: layering, shadowing, and color use. 54 hours lecture and 18 hours laboratory.

CIS-80 - Word Processing: Microsoft Word for Windows  
**Prerequisite:** None.  
**Advisory:** Typing knowledge/skills with at least 40 wpm.  
This course is designed to provide introductory, intermediate and advanced skill levels necessary to produce a variety of professional documents using Microsoft Word word processing program. Students will develop skills in word processing techniques and tasks. 54 hours lecture and 18 hours laboratory.

CIS-81 - Introduction to Desktop Publishing  
**Prerequisite:** None.  
Page design and layout techniques using Adobe InDesign. Mastery of beginning and intermediate techniques of document creation, including design skills. Successful incorporation of drawing and bit mapped files to create professional printed media. 54 hours lecture and 18 hours laboratory.

CIS-93 - Computers for Beginners  
**Prerequisite:** None.  
This course is designed as a practical step-by-step introduction to computer literacy topics including computer hardware and software, application skills, the Internet and Internet searching, Web page creation and computer ethics. 54 hours lecture and 18 hours laboratory.

CIS-95A - Introduction to the Internet  
**Prerequisite:** None.  
Skill development in the concepts of the Internet on microcomputer-based systems. This course is designed as a practical step-by-step introduction to working with the Internet using personal computers. 27 hours lecture.

CIS-98A - Introduction to Excel  
**Prerequisite:** CIS-98A.  
Skill development in electronic spreadsheets using Excel for business and scientific related applications. 27 hours lecture and 18 hours laboratory.

CIS-98B - Advanced Excel  
**Prerequisite:** CIS-98A.  
Advanced concepts of MS-Excel including managing large spreadsheets, creating and working with databases, creating and using templates and macro creation. Spreadsheet manipulation with advanced macro techniques, customizing Excel screen and toolbars and solving problems with goal seeker and solver. 27 hours lecture and 18 hours laboratory.
CIS-200 - Computer Information Systems 1-2-3-4 units
Work Experience
CSU*
Prerequisite: None.
Limitation on enrollment: Students must be enrolled in a minimum of 7 units including the work experience units and in a major related to the course.
This course is designed to coordinate the student's occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

COMPUTER SCIENCE

CSC-2 - Fundamentals of Systems Analysis 3 units
(Same as CIS-2)
CSU
Prerequisite: None.
Study of structured systems analysis techniques. Course includes the identification of problems, fact gathering, report analysis, system/data flow analysis, screen/forms design, creation of user documentation/reports, completion of written and verbal presentations and the use of CASE tools. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-5 - Fundamentals of Programming Logic using C++ 3 units
(Same as CIS-5)
CSU
Prerequisite: None.
Advisory: CIS-1A.
Introduction to the fundamentals of problem definition, algorithm development, and structured programming logic for business, scientific and mathematical applications. The C++ language will be used for programming problems. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-6 - Discrete Mathematics for Computer Science 3 units
(Same as MAT-6)
CSU
Prerequisite: MAT-10.
Advisory: CSC-5.
Fundamental topics for Computer Science, such as logic, proof techniques, sets, basic counting rules, relations, functions and recursion, graphs and trees. 54 hours lecture.

CSC-11 - Computer Programming using Assembler 3 units
(Same as CIS-11)
CSU
Prerequisite: None.
Advisory: CIS/CSC-5.
This course is an introduction to microprocessor architecture and assembler language. The relationship between the hardware and the software will be studied in order to understand the interaction between a program and the total system. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-12 - PHP Dynamic Web Site Programming 3 units
(Same as CIS–12)
CSU
Prerequisite: None.
Advisory: Previous programming experience and knowledge of HTML such as in CIS/CSC-5 or 14A, and familiarity with MySQL. This course is dynamic Web site programming using PHP. Fundamentals of server-side Web programming. Introduction to database-driven Web sites, using PHP to access a database such as MySQL. Web applications such as user registration, content management, and e-commerce. This course is for students already familiar with the fundamentals of programming and HTML. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-14A - Web Programming: JavaScript 3 units
(Same as CIS–14A)
CSU
Prerequisite: None.
Advisory: Previous programming experience writing functions arrays, JavaScript objects, browser objects and events. Web applications will include image rollovers, user interactivity, manipulating browser windows, form validation and processing, cookies, creating dynamic content and Dynamic HTML programming. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-16A - Programming Games with DirectX and OpenGL 3 units
(Same as CIS–16A)
CSU
Prerequisite: None.
Advisory: Previous C++ programming experience such as CIS/CSC-17A.
An advanced C++ programming course using DirectX and OpenGL to create games and high-performance multimedia applications. An emphasis will be placed on advanced programming concepts associated with two-dimensional and three-dimensional graphics, sound effects and music, input devices and networked applications. 54 hours lecture and 18 hours laboratory.

CSC-17A - C++ Programming: Objects 3 units
(Same as CIS–17A)
CSU
Prerequisite: None.
Advisory: Previous programming experience writing functions, arrays on PC platforms as well as CIS/CSC-5.
A comprehensive study of the syntax and semantics of the C++ language and the methodology of Object-Oriented program development. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)
CSC-18C - Java Programming: Data Structures 3 units
(Same as CIS-18C)
CSU
Prerequisite: None.
Advisory: Previous Java programming experience as well as CIS/CSC-18A.
This course is designed to be an advanced Java programming course for students familiar with object-oriented programming and database concepts. The major emphasis will be related to concepts of storing and retrieving data efficiently, which are the essential principles and practices of data structures. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-20 - Systems Analysis and Design 3 units
(Same as CIS-20)
CSU
Prerequisite: None.
Advisory: CIS/CSC-2.
Structured design techniques for the development and implementation of computerized business applications. Course includes project planning, analysis of current system, design of a new system, implementation, consideration of data base design and development; file organization, and modular programming techniques. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-21 - Introduction to Operating Systems 3 units
(Same as CIS-21)
CSU
Prerequisite: CIS-1A.
An introduction to operating concepts, structure, functions, performance and management is covered. A current operating system, such as DOS, OS/2, UNIX, NT or Windows is used as a case study. File multi-processing, system security, device management, network operating systems, and utilities are introduced. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

CSC-28A - MS Access Programming 3 units
(Same as CIS-28A)
CSU
Prerequisite: None.
Advisory: CIS/CSC-5.
Use of the data management program, MS Access, in writing command file programs to automate database management applications with the use of Visual Basic Applications variables, expressions and functions. This course shows students how event driven programs operate. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option)

CSC-35 - Introduction to Simulation and Game Development 3 units
(Same as CIS-35)
CSU
Prerequisite: None.
An introduction to the field of simulation and computer gaming. Course provides an introductory look at the fundamentals of simulation and computer games used in various industries—entertainment, military, finance, medical, education, and law enforcement. Topics include licensing and franchising, marketing, business development, game design, storytelling, and development life cycle. 54 hours lecture and 18 hours laboratory.
CSC-36 - Introduction to Computer Game Design  3 units
(Same as CIS-36)
CSU
Prerequisite: None.
An introduction to the fundamental techniques, concepts, and vocabulary of computer game design. Students will explore analog game design principles and apply modern game design and development methodologies and principles to create their own electronic games. Topics include game genres, design documents, and game design principles such as level design, gameplay, balancing and user interface design. 54 hours lecture and 18 hours laboratory.

CSC-37 - Beginning Level Design for Computer Games  3 units
(Same as CIS-37)
CSU
Prerequisite: None.
An introduction to the fundamental techniques, concepts, and vocabulary of computer game level design. Students will create environments, place objects in those environments, and control those objects via a scripting language. Topics include frame rate, game flow and pacing. Students will create 3D computer games using a game engine such as Unreal. No previous game programming experience is required. 54 hours lecture and 18 hours laboratory.

CSC-38A - Simulation and Gaming/3D Modeling for Real-Time Interactive Simulations  4 units
(Same as CIS-38A)
CSU
Prerequisite: None.
Create computationally efficient 3D digital models of both living and inanimate objects and then implement them in a real-time interactive simulation or video game. Topics include model construction using triangulated meshes and splines, applying basic surface detailing, understanding how model design effects computing performance, importing vertex and edge vectors into a game engine, and applying basic user and game world interactivity to one or more rigid bodies. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.

CSC-38B - Simulation Gaming/3D Animation for Real-Time Interactive Simulations  4 units
(Same as CIS-38B)
CSU
Prerequisite: CIS/CSC-38A.
Animate both living and inanimate objects created with a 3D modeling program and then implement them in a real-time interactive simulation or video game. Topics include linear and non-linear attribute interpolation, path, forward and reverse kinematics animation. Additional topics include understanding how animation parameters affect computing performance, importing vertex and edge vectors into a game engine, and applying basic user and game world interactivity to a rigid body. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.

CSC-38C - Simulation Gaming/3D Dynamics and Rendering for Real-Time Interactive Simulations  4 units
(Same as CIS-38C)
CSU
Prerequisite: CIS/CSC-38B.
Create dramatic cinematic sequences based on 3D animations of both living and inanimate objects. Topics include combining animated models with simulations of real world dynamics such as wind, water, fire, smoke, and gravity. Short animated sequences will be modeled, animated, and then rendered into frames. Hardware and software rendered frames will then be composited and added to a game engine. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.

CSC-61 - Intro to Database Theory  3 units
(Same as CIS-61)
Prerequisite: None.
This course provides a comprehensive introduction to the design and development of professional database management systems. This course will demonstrate how to build database structures using “Entity-Relationship” models and relationships. The student will encounter design and development techniques for work groups and enterprise level database models. The course will cover the Systems Development Life Cycle, as well as data validation, business rules, security and disaster recovery techniques. 54 hours lecture.

CSC-62 - MS Access DBMS: Comprehensive  3 units
(Same as CIS-62)
Prerequisite: None.
Provides a comprehensive introduction to the implementation of database management systems using Microsoft Access. The student will be provided hands-on experience in modeling work problems and transforming them to a relational data model. The student will design data tables to efficiently store data. The student will be shown techniques for entering, changing, and deleting data using datasheets and forms. The student will learn to filter and modify data using queries and to output data using both forms and reports. Access macros will be applied to forms and reports. The student will be presented with database projects to reinforce their lectures. 54 hours lecture and 18 hours laboratory.

CSC-63 - Introduction to Structured Query Language (SQL)  3 units
(Same as CIS-63)
Prerequisite: None.
This course provides an introduction to the relational database management system industry standard - Structured Query Language (SQL). Students will analyze, design, and implement database schema using the SQL programming language. SQL will be utilized to develop a database structure (DDL). The student will use SQL to create both Select and action queries (DML). Joins, Unions, Differences and subquery statements will be covered. Both the Access and Oracle SQL statements will be covered. 54 hours lecture, and 18 hours laboratory.
CONSTRUCTION TECHNOLOGY

CON-60 - Introduction to Construction  
Prerequisite: None.  
An overview of the basic concepts of construction, including city and regional planning, managing, contracting, designing, engineering, estimating, bidding, inspecting and production work normally associated with construction. An overview of how building codes affect the design, materials and methods of constructing buildings and other projects. Students will be expected to participate in several field trips. 54 hours lecture.

CON-61 - Materials of Construction  
Prerequisite: None.  
An introduction to the materials used in the construction of buildings; identification of materials, their properties, and uses. The characteristics and properties of such materials as concrete, steel, timber, masonry, plaster, roofing, and all other structural and ornamental materials. 54 hours lecture.

CON-62 - Blueprint Reading  
Prerequisite: None.  
This course will provide an overview of construction blueprint and specification reading, the relationship of drawings and specifications to the contract and responsibilities of the inspector in interpreting the contract documents and in the inspection of the work. 54 hours lecture.

CON-63A - Uniform Building Code and Ordinances  
Prerequisite: None.  
Use of the Uniform Building Code and the various related state and local ordinances in plan checking various building types for compliance with the codes and ordinances. 54 hours lecture.

CON-63BCD - Analysis of Revisions to the Uniform Building Code  
Prerequisite: CON-63A.  
An analysis which discusses the changes, amendments, and the intent of the code. This analysis to provide to the building industry a concise understanding and purpose of facilitating the current code. In addition, the analysis of the revisions may be used as a plancheck and field inspection aid to ensure a better appraisal of the latest revisions. 54 hours lecture.

CON-64 - Office Procedure and Field Inspection  
Prerequisite: None.  
Office organization, procedures and necessary paper work pertinent to building and safety office management and inspection. Field inspection for completed buildings, zoning, health and safety ordinance application. Field trips may be required. 54 hours lecture.

CON-65 - Plumbing Code  
Prerequisite: None.  
Review of plumbing codes including discussion and analysis of the application of physical laws in development of the code requirements. 54 hours lecture.

CON-66 - National Electrical Code  
Prerequisite: None.  
Review of electrical codes including discussion and analysis of the application of physical laws in development of the code requirements. 54 hours lecture.

CON-67 - Mechanical Code  
Prerequisite: None.  
Review of mechanical systems including discussion and analysis of the application of physical laws in development of the code requirements. 54 hours lecture.

CON-68 - Simplified Engineering for Building Inspectors  
Prerequisite: None.  
Introduction to basic engineering. Fundamental static and stress formulae. Shear and moment diagrams and their applications. Properties of sections and their use. Design of wood joists, beams, posts and use of tables with practical composite design applications. 54 hours lecture.

CON-69 - Mechanical Code  
Prerequisite: None.  
Field inspection and testing of soils and rock for grading and building contractors. A systematic approach to soil classification, strength, compressibility and expansive characteristics is covered. Methods of observation and foundation types are considered in detail. A survey of engineering and analysis is made. 54 hours lecture.

CON-70 - Fundamentals of Soil Technology  
Prerequisite: None.  
Fundamental static and stress analysis by observation and foundation types are considered in detail. A survey of engineering and analysis is made. 54 hours lecture.

CON-71 - Energy Conservation Standards  
Prerequisite: None.  
Administrative regulations and codes that regulate the energy conservation for new residential buildings. Energy measures and mandatory features and devices that must be installed in new residential buildings and the enforcement by local building departments. 27 hours lecture.

CON-72 - California State Accessibility Standards  
Prerequisite: None.  
This course examines the provisions of Title 24 accessibility standards of the California Uniform Building Code for application in the construction industry. These legal requirements establish minimum facility accessibility standards and requirements to provide or improve access to and use by people with physical disabilities. Students will gain an understanding of the legal requirements and will interpret, analyze and apply these provisions to various construction, alteration, remodeling, repair and use of building and related facilities. 27 hours lecture.

CON-73 - Project Planning for Site Construction  
Prerequisite: None.  
Organization, procedures and necessary paperwork pertinent to the planning and construction of site improvements. Site analysis by evaluating the needs of the property as well as the needs of those using the property and the design correlations with scope, specifications and control of local, state and federal agencies. 54 hours lecture.

CON-81 - Introduction to Masonry I  
Prerequisite: None.  
Overview of the masonry trade including the history and origin of masonry construction, tools and equipment, safety, basic fundamentals of mortar preparation and application, and the use of various masonry products. Lecture and laboratory hours teach students fundamentals and supply the opportunity for skill development. The course prepares students for entry level positions in the field of masonry, in addition to serving as related instruction for the requirements of the Division of Apprenticeship Standards. May be taken a total of three times. 18 hours lecture and 54 hours laboratory.
CON-82 - Introduction to Masonry II 2 units
Prerequisite: None.
Continued study of the masonry trade including a review of the history and origin of masonry construction, tools and equipment, safety, basic fundamentals of mortar preparation and application, and the use of various masonry products. Lecture and laboratory hours teach students advanced fundamentals of masonry construction, material estimation and procurement and supply the opportunity for further skill development. The course prepares students for entry-level positions in the field of masonry, in addition to serving as related instruction for the requirements of the Division of Apprenticeship Standards. May be taken a total of three times. 18 hours lecture and 54 hours laboratory.

CON-83 - Masonry III 2 units
Prerequisite: None.
Course provides bricklaying students with material handling and storage procedures for advanced laying techniques, joints, corners and corner poles. Provides instruction in the handling and storage of brick and block, brick and CMU, control and expansion, joints and masonry. Lecture and laboratory hours teach students fundamentals and provide the opportunity for skill development. The course prepares students for entry-level positions in the field of masonry, in addition to serving as related instruction for the requirements of the Division of Apprenticeship Standards. May be taken a total of three times. 18 hours lecture and 54 hours laboratory.

CON-84 - Masonry IV 2 units
Prerequisite: None.
Course provides bricklaying students with procedures for installing flashing and counter flashing, and safety precautions when doing elevated masonry, reading commercial and residential drawings, adverse weather conditions, insulation, window and door openings and piers, columns and pilasters. Lecture and laboratory hours teach students fundamentals and provide the opportunity for skill development. The course prepares students for entry-level positions in the field of masonry, in addition to serving as related instruction for the requirements of the Division of Apprenticeship Standards. May be taken a total of three times. 18 hours lecture and 54 hours laboratory.

CON-85 - Masonry V 2 units
Prerequisite: None.
Course provides bricklaying students with basic procedures for working safely on walk and work surfaces, basic construction techniques for panels, prisms, arches, decorative pattern bonds, stone work and residential masonry. Lecture and laboratory hours teach students fundamentals and provide the opportunity for further skill development. The course prepares students for entry-level positions in the field of masonry, in addition to serving as related instruction for the requirements of the Division of Apprenticeship Standards. May be taken a total of three times. 18 hours lecture and 54 hours laboratory.

CON-86 - Masonry VI 2 units
Prerequisite: None.
Course provides students with basics of glass block, refractory masonry, structural glazed tile, repair and restoration, panel construction, brick paving, and welding. Lecture and laboratory hours teach students fundamentals and provide the opportunity for skill development. The course prepares students for entry-level positions in the field of masonry, in addition to serving as related instruction for the requirements of the Division of Apprenticeship Standards. May be taken a total of three times. 18 hours lecture and 54 hours laboratory.

CON-200 - Construction Work Experience 1-2-3-4 units
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

ACADEMIC COURSES

DAN-5 - Introduction to Movement Education for Preschool and Elementary Children
Prerequisite: None.
An individualized approach to teaching children to become aware of their physical abilities through the use of movement and dance in the classroom. 45 hours lecture and 27 hours laboratory.

DAN-6 - Dance Appreciation
Prerequisite: None.
UC, CSU

ACTIVITY COURSES

DAN-D19 - Conditioning for Dance
Prerequisite: None.
UC, CSU

DAN-D20 - Introduction to Social Dance
Prerequisite: None.
UC, CSU

DAN-D30 - Social Dance Styles
Prerequisite: None.
UC, CSU

DAN-D31 - Hip-Hop Dance
Prerequisite: None.
UC, CSU

Learn, practice and apply fundamental hip-hop dance skills and vocabulary. Introduction to the historical and cultural context of hip-hop culture. May be taken a total of four times. 54 hours laboratory.
DAN-D32 - Jazz, Beginning 1 unit
UC, CSU
Prerequisite: None.
Learn, practice and apply fundamental jazz dance skills and vocabulary. Introduction to the historical and cultural context of jazz dance. May be taken a total of four times. 54 hours laboratory.

DAN-D33 - Jazz, Intermediate 1 unit
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting. Retention based on successful audition.
Learn, practice and apply basic jazz dance skills learned in beginning jazz to more complex movement phrases and vocabulary characteristic of intermediate level technique. Continued study of historical and cultural context of jazz dance as introduced in beginning jazz. May be taken a total of four times. 54 hours laboratory.

DAN-D37 - Modern Dance, Beginning 1 unit
UC, CSU
Prerequisite: None.
Learn, practice and apply fundamental modern dance skills and vocabulary. Introduction to the historical and cultural context of modern dance. May be taken a total of four times. 54 hours laboratory.

DAN-D38 - Modern Dance, Intermediate 1 unit
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting.
Learn, practice and apply basic modern dance skills learned in beginning modern dance to more complex movement phrases and vocabulary characteristic of intermediate level technique. Continued study of historical and cultural context of modern dance as introduced in beginning modern. May be taken a total of four times. 54 hours laboratory.

DAN-D43 - Tap Beginning 1 unit
UC, CSU
Prerequisite: None.
Learn, practice and apply fundamental tap dance skills and vocabulary. Introduction to the historical and cultural context of tap dance. May be taken a total of four times. 54 hours laboratory.

DAN-D44 - Tap, Intermediate 1 unit
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting.
Learn, practice and apply basic tap dance skills learned in beginning tap to more complex movement phrases and vocabulary characteristic of intermediate level technique. Tap Dance improvisation will be introduced. Continued study of historical and cultural context of tap dance as introduced in beginning tap. May be taken a total of four times. 54 hours laboratory.

DAN-D60 - Dance Techniques for Musical Theater .5 unit
UC, CSU
Prerequisite: None.
Principles and techniques of various performance methods, dance genres, and styles involved in performing dance for the musical theater. Genres/styles to be studied may include jazz, tap, modern, ballet and ethnic/world dance. May be taken a total of four times. 27 hours laboratory.

EARLY CHILDHOOD EDUCATION

EAR-19 - Observation and Assessment Methods in Early Childhood Education 3 units
CSU
Prerequisite: EAR-20.
An overview of observation and assessment approaches to understand the development of children from infancy to age eight, which involves the recording of observations of physical, emotional, social, language, and cognitive behaviors, and how to interpret and use the information to plan curriculum that is responsive to and supportive of children's typical and atypical learning and developmental needs. 54 hours lecture.

EAR-20 - Child Development and Career Opportunities 3 units
UC, CSU
Prerequisite: None.
This course is a comprehensive overview of concepts, issues and theories of human development from conception through adolescence. Emphasis is on typical and atypical development that occurs through the following areas: physical, cognitive, language, social and emotional stages of growth. Students will be introduced to theories, research and applications that constitute the field of child development. Students will examine culturally diverse and innovative methods that support the growth and development of children. Outside observations required. 54 hours lecture.

EAR-22 - Early Childhood Programs and Career Opportunities 3 units
CSU
Prerequisite: None.
The course explores the historical backgrounds and philosophies of early childhood programs. The theories of Dewey, Montessori, Erikson, Piaget and Vygotsky are examined as the foundation for current strategies in early childhood care and developmentally appropriate learning experiences. The characteristics of various program types are introduced along with the requirements of operation: state licensing, laws, permits, and regulations. Career opportunities, particularly those involving the Pre-K and K-12 educational systems, are discussed and explored, as well as other career paths open to educators. Observations of various educational settings are required. 54 hours lecture.

EAR-23 - Family Home Child Care Program 3 units
CSU
Prerequisite: None.
This course is designed to meet the specific needs of the family child care provider. Emphasis will be given to licensing regulations, recordkeeping, developing contracts, child development, and creating partnerships with parents. Topics include creating appropriate environments, using appropriate positive guidance techniques, and planning and implementing developmentally appropriate curricula for mixed-age groups of children. Outside observations required. 54 hours lecture.

EAR-24 - Creative Activities Through Curriculum 3 units
CSU
Prerequisite: None.
Introduction to creativity in education as it relates to both typically developing young students and those with disabilities and other special needs. Integration of creative activity into various aspects of the early childhood and school age curriculum. 54 hours lecture.
EAR-26 - Child Health 3 units
CSU
Prerequisite: EAR-20.
This course introduces basic concepts of health, safety, and nutrition for the developing child (birth–age 8). Topics include identification and prevention of communicable diseases; assessment of general physical and mental health; developmental delays; nutrition; assessment of environmental safety, general first aid procedures; as well as health, safety, and nutrition education for children provided by the school and the local resources. 54 hours lecture.

EAR-28 - Principles and Practices of Early Childhood Education 3 units
CSU
Prerequisite: None.
An overview of the field of early childhood education that includes: the history that has shaped the principles and practices (educational philosophies) used to educate both young and school-age children of today; practices that enhance and impede the healthy development of children’s cognitive, emotional, social, creative, and physical selves (the five selves); the teaching practices that are used to shape the role of the teacher as a facilitator of learning or transmitter of information; effective practices to be used when working with and communicating with parents; full inclusion practices for working with children with disabilities and special needs; implementing developmentally and culturally appropriate curriculum and displaying culturally diverse materials throughout the classroom; and current influences and trends in educating young children/ students including some licensing and child development permit issues. 54 hours lecture.

EAR-30 - Internship in Early Childhood Education 4 units
CSU
Prerequisite: EAR-19 and 28.
Supervised experience and participation in a group program for preschool children at the RCC Early Childhood Studies Center or community child development centers. Emphasis on curriculum planning, implementation and evaluation, discipline and guidance techniques; instructional methods; cooperative relationships with staff, parents, and children; professional ethics and job search skills. Lab hours will be completed under the direction of a Master Teacher (Child Development Permit Matrix, California Commission on Teacher Credentialing) with 3 units of supervised field experience in ECE setting. 36 hours lecture and 108 hours laboratory.

EAR-31 - Home Visiting 3 units
CSU
Prerequisite: EAR-20.
This class will provide an overview of the basics required for an early intervention assistant to effectively provide services to a child with a disability and their family in the home environment. Students will be challenged to develop a personal philosophy regarding early intervention services in the home. Topics will be geared to prepare students to handle the diversity of environments, family systems, and interpersonal communication styles they will encounter. Additional topics will provide support relating to personal organization and preparation for the visits, collaboration with other professionals, infant mental health, and developing appropriate home based interventions for the child and family. 54 hours lecture.

EAR-33 - Caring for Infants and Toddlers 3 units in Group Settings
CSU
Prerequisite: None.
Advisory: EAR-20.
This course provides caregivers in family day care homes, infant/toddler centers, or early intervention settings, the components of quality care and education for typically and atypically developing infants and young children ages 0 to 3. The specific development of the child from birth to age three will be studied in relation to the development of appropriate activities and materials to meet the child’s developmental needs. Health, safety, and nutrition; components of physical space and equipment in the natural environment; and play of the young child will be examined. 54 hours lecture.

EAR-34 - Curriculum Activities for Infants and Toddlers 3 units
CSU
Prerequisite: None.
Advisory: EAR-33.
An introduction to assessing, planning, and developing individualized activities for infants and toddlers. Practical learning experiences will be developed in various curriculum areas such as science, learning games, creative arts, imaginative play, music and movement, language, self-concept and discipline. 54 hours lecture.

EAR-35 - Internship in Infant and Toddler Care 3 units
CSU
Prerequisite: EAR-20.
Advisory: EAR-33 and 34.
This is a supervised teaching experience in the care and education of infants and toddlers. Emphasis is on applying the principles and practices of high quality infant care programs. Students will participate in and ultimately plan and develop a comprehensive infant/toddler program consistent with Title 22 licensing regulations and the physical, emotional, social, cognitive, and creative needs of the infant/toddler. 36 hours lecture and 54 hours laboratory work in an approved infant/toddler program under the direction of a Master Teacher with appropriate Infant-Toddler units required.

EAR-37 - School Age Child Care 3 units
CSU
Prerequisite: EAR-20.
This course provides school-age child care givers with methods and activities appropriate for after school care of 5-11 year olds. Emphasis will be placed on differentiating between the needs of the school-aged child after school as opposed to during school. Planning will include methods for integrating the school-aged child’s interests and abilities into a developmentally appropriate curriculum to meet individual needs. 54 hours lecture.
EAR-38 - Adult Supervision in ECE/CD Classrooms 3 units
CSU
Prerequisite: EAR-44.
This course is a study of the methods and principles of supervising teachers, assistant teachers, student teachers, parents and volunteers in early childhood/child development classrooms. Emphasis is on the role of administrators and classroom teachers who function as mentors to new personnel while simultaneously addressing the needs of administrative concerns, other staff, children and parents. Practical experience is attained in verbal and written communication. Attention is given to the role of communication as the conduit for establishing good interpersonal relations. Meets the requirements for the Child Development Permit Option 1 for the Master Teacher, Site Supervisor and Program Director level. 54 hours lecture.

EAR-39 - Mentor Seminar .5 unit
Prerequisite: None.
Limitation on enrollment: Selection as an Early Childhood Mentor Teacher or Director.
Early childhood Mentors attend monthly seminars to explore issues related to their role as supervisors of early childhood student teachers. Seminar content will be individualized to meet the needs of each Mentor. May be taken a total of four times. 9 hours lecture.

EAR-40 - Introduction to Infants and Children with Disabilities and Other Special Needs 3 units
CSU
Prerequisite: None.
This course is designed to introduce students to the characteristics of infants and children with disabilities and other special needs. Students will also learn about early intervention, special education and civil rights laws and history, the dynamics of the family of an infant or child with special needs, as well as intervention and support strategies for infants and children with disabilities and other special needs in the early childhood natural environment. This course will include required observations of programs for infants and children with special needs and their families. 54 hours lecture.

EAR-41 - Internship in Early Intervention/ Special Education 4 units
CSU
Prerequisite: EAR-20.
This course provides a supervised practicum as an assistant in an early intervention/special education setting with children from birth through 8 years old. It explores the characteristics and distinctive needs of infants and young children with disabilities and other special needs, and their development. The role of the family, teacher and community agencies will be studied. Natural environments, adaptation of curriculum, and identification and assessment will be discussed. 36 hours lecture and 108 hours laboratory.

EAR-42 - Child, Family and Community Dynamics 3 units
CSU
Prerequisite: None.
Theoretical perspectives are used to focus on inter-and intra-relationships of home, school, and community, and their impact on both teachers and the developing child in the learning environment. The course promotes knowledge about diversity and how differences affect the learning environment and individual child progress. Strategies that enhance communication systems that are needed to elicit family and community support for educational programs are presented. Child behaviors are explored to learn developmentally appropriate discipline and classroom management techniques. 54 hours lecture.

EAR-43 - Children with Challenging Behaviors 3 units
CSU
Prerequisite: EAR-20.
Corequisite: EAR-19.
This course provides an overview of the developmental, environmental and cultural factors that impact the behavior of young children, including family stressors, child temperament, violence, attachment disorders, and special needs; and proactive intervention and prevention techniques. Topics include addressing why children misbehave, how to carefully observe a child, how to create a positive environment to encourage appropriate behavior, and how to effectively address many types of behaviors including those that are aggressive and antisocial, disruptive, destructive, emotional and dependent. Outside observations required. 54 hours lecture.

EAR-44 - Administration of Early Childhood Programs I 3 units
CSU
Prerequisite: EAR 20, 24, 28 and 42.
Introduction to management skills and administrative responsibilities pertaining to the successful operation of care and educational environments for early childhood programs. Emphasis is on the administration of programs for infants, toddlers, preschool, and school-age children. Content areas include: child/program development, adult supervision and management, family and community relationships, human resources development, business/fiscal management, and technological skill development. 54 hours lecture.

EAR-45 - Administration of Early Childhood Programs II 3 units
CSU
Prerequisite: EAR-44.
Examines the dynamics of management behavior and responsibilities, and the communication process within the organization. It includes the essentials of curriculum design, and its implementation and maintenance through systems of professional staff accountability. Quality program standards are reviewed and their link to professional growth planning and development are addressed. Presented as the foundation for effective management is skill building in leadership, team work, time management, sensitivity toward diversity, and advocating for the principles of developmentally appropriate practices. 54 hours lecture.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Institution</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>EAR-47</td>
<td>Childhood Stress and Trauma</td>
<td>3</td>
<td>CSU</td>
<td>None</td>
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<td></td>
<td>This course is an introduction to the common and uncommon stresses</td>
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<td>of childhood and the short-and long-term effects it has on a child’s</td>
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<td>development. The many needs and issues of children and families</td>
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<td>make child development programs challenging as well as rewarding.</td>
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<td>When exceptional stress and trauma get added into the picture, life</td>
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<td>can feel overwhelming for everyone involved. This course is designed</td>
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<td>to develop an understanding of how children react and adapt to stress</td>
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<td>and trauma as a form of survival. Outside observations required.</td>
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<td></td>
<td>54 hours lecture.</td>
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<td>EAR-52</td>
<td>Parenting: Parents as Teachers</td>
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<td></td>
<td>Explores the parents’ role in a child’s process of learning. This</td>
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<td>course presents a variety of methods and techniques a parent can</td>
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<td>utilize to facilitate the development of a child’s intellectual,</td>
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<td>social, emotional and physical skills. 18 hours lecture.</td>
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<td>EAR-53</td>
<td>Parenting: Guiding Young Children - Approaches to Discipline</td>
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<td>None</td>
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<td>An examination of various theoretical approaches to child guidance</td>
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<td>with an overview of social and emotional development in young</td>
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<td>children and the need for guidance. Exploration about how values</td>
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<td>that people hold influence and shape the behavior of young children.</td>
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<td>Problem-solving techniques that utilize positive behavioral support</td>
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<td>methods will be examined and discussed. 36 hours lecture.</td>
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<td>EAR-54</td>
<td>Parenting: Contemporary Parenting Issues and Problems</td>
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<td>None</td>
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<td>This course is designed to explore how the concept of childhood in</td>
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<td>society and children’s position has changed, to examine historical</td>
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<td>antecedents of change in relation to the new position of women in</td>
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<td>society and the marriages of today. It will also attempt to relate</td>
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<td>how changes in society and forces impacting on this change influence</td>
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<td>child-rearing. Issues addressed will include divorce, the sexual</td>
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<td>acceleration of childhood, and television. 18 hours lecture.</td>
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<tr>
<td>EAR-55</td>
<td>Parenting: Common Problems in Infancy and Childhood</td>
<td>1</td>
<td></td>
<td>None</td>
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<tr>
<td></td>
<td>A course designed to study and examine some of the difficult</td>
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<td></td>
<td>behaviors that even normal and well adjusted children exhibit. It</td>
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<td>will present common problems like disruptive children, shyness,</td>
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<td></td>
<td>fearfulness, aggressiveness, thumb sucking and others. 18 hours</td>
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<tr>
<td></td>
<td>lecture.</td>
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<tr>
<td>EAR-200</td>
<td>Early Childhood Studies Work Experience 1-2-3-4 units</td>
<td>1-2-3-4</td>
<td>CSU*</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Advisory: Student should have paid or voluntary employment. This</td>
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<tr>
<td></td>
<td>course is designed to coordinate the student’s occupational on-</td>
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<td></td>
<td>the-job training with related classroom instruction. Students enrolled</td>
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<td></td>
<td>in this occupational work experience course must be employed in a</td>
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<td></td>
<td>field related to the work experience subject area. Students may earn</td>
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<tr>
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<td>up to four (4) units each semester for a maximum of 16 units of work</td>
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<td>experience. No more than 20 hours per week may be applied toward the</td>
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<td></td>
<td>work requirement. 18 hours lecture. Additionally, 60 hours of</td>
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<td></td>
<td>volunteer work or 75 hours of paid work is required for each unit.</td>
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</tbody>
</table>

**ECONOMICS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Institution</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO-4</td>
<td>Introduction to Economics</td>
<td>3</td>
<td>UC, CSU</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>An entry-level, general education course which introduces and</td>
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<td></td>
<td>surveys basic macroeconomic and microeconomic principles. This</td>
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<tr>
<td></td>
<td>course emphasizes the causes and consequences of the business cycle</td>
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<tr>
<td></td>
<td>on output, employment, and prices as well as, basic supply and</td>
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<td></td>
<td>demand analysis across different market structures. Analysis</td>
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<tr>
<td></td>
<td>further includes the role of the government in the macro-economy</td>
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<tr>
<td></td>
<td>and the micro-economy. 54 hours lecture.</td>
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<tr>
<td>ECO-6</td>
<td>Introduction to Political Economy (Same as POL-6)</td>
<td>3</td>
<td>UC, CSU</td>
<td>None</td>
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<tr>
<td></td>
<td>Advisory: Qualification for ENG-1A.</td>
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<tr>
<td></td>
<td>This course will examine the historical, structural, and cultural</td>
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<td></td>
<td>elements in the development of international political economy.</td>
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<td>Topics covered will include the relation of politics and economics</td>
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<td></td>
<td>on development, globalization, national institutions, social</td>
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<td></td>
<td>groups and classes, and democracy. 54 hours lecture.</td>
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<tr>
<td>ECO-7</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
<td>UC, CSU</td>
<td>None</td>
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<tr>
<td></td>
<td>Advisory: Qualification for ENG-1A and MAT-52.</td>
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<tr>
<td></td>
<td>Economic theory and analysis as applied to the U.S. economy as a</td>
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<tr>
<td></td>
<td>whole. Emphasizes aggregative economics dealing with the</td>
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<td></td>
<td>macroeconomic concepts of national income and expenditure,</td>
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<td></td>
<td>aggregate supply and demand, fiscal policy, monetary policy, and</td>
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<td>economic stabilization and growth. 54 hours lecture.</td>
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<tr>
<td>ECO-7H</td>
<td>Honors Principles of Macroeconomics</td>
<td>3</td>
<td>UC, CSU</td>
<td>None</td>
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<tr>
<td></td>
<td>Advisory: Qualification for ENG-1A and MAT-52.</td>
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<td></td>
<td>Limitation on enrollment: Enrollment in the Honors program.</td>
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<td>Economic theory and analysis as applied to the U.S. economy as a</td>
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<td></td>
<td>whole. Emphasizes the enhanced exploration of aggregative economics</td>
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<td></td>
<td>dealing with the macroeconomic concepts of national income and</td>
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<tr>
<td></td>
<td>expenditure, aggregate supply and demand, fiscal policy, monetary</td>
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<td>policy, and economic stabilization and growth. The honors course</td>
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<td>offers an enriched experience for accelerated students through</td>
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<tr>
<td></td>
<td>limited class size, seminar format, focus on primary texts, and</td>
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<td>application of higher order critical thinking skills. Students may</td>
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<td></td>
<td>not receive credit for both ECO-7 and ECO-7H. 54 hours lecture.</td>
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<tr>
<td>ECO-8</td>
<td>Principles of Microeconomics</td>
<td>3</td>
<td>UC, CSU</td>
<td>None</td>
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<td></td>
<td>Advisory: Qualification for ENG-1A and MAT-52.</td>
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<tr>
<td></td>
<td>Economic theory and analysis as applied to consumer and producer</td>
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<td></td>
<td>behavior in markets. Emphasizes the allocation of resources and</td>
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<tr>
<td></td>
<td>the distribution of income through the price mechanism, and deals</td>
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<td>with the microeconomic concepts of equilibrium in product and factor</td>
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<tr>
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<td>markets, perfect and imperfect competition, government</td>
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<tr>
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<td>intervention in the private sector, and international trade and</td>
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<tr>
<td></td>
<td>finance. 54 hours lecture.</td>
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</tbody>
</table>
ELE-10 - Survey of Electronics 4 units
Prerequisite: None.
Basic electronic theory including electron theory, Ohm’s Law, DC, AC, vacuum tube and solid state devices, antenna principles, power supplies, amplifiers, RF oscillators, amplitude and frequency modulation, diode detection and superheterodyne receivers, and test equipment operation (emphasis on voltmeter and oscilloscope operation). 54 hours lecture and 54 hours laboratory.

ELE-21 - DC-AC Electronics 4 units
Prerequisite: None.
Basic electrical theory including electrical circuit parameters, Ohm’s Law, DC, AC, time constants, resonant circuits, filters, and circuit parameter measurement. 54 hours lecture and 54 hours laboratory.

ELE-22 - Passive Circuit Analysis 3 units
Prerequisite: None.
Advisory: Concurrent enrollment in ELE-21.
Mathematical analysis of electrical laws, circuits, and networks. Includes Ohm’s Law, DC and AC circuit analysis, network analysis, and applications of trigonometry and complex notation to phasor analysis of electrical circuits. 54 hours lecture.

ELE-23 - Electronics Devices and Circuits 4 units
Prerequisite: None.
Advisory: ELE-21.
Characteristics, construction, and circuit applications of electronic devices including diodes, bipolar transistors, thyristors, integrated circuits, and optoelectronic devices. 54 hours lecture and 54 hours laboratory.

ELE-24 - Active Circuit Analysis 3 units
Prerequisite: None.
Advisory: ELE-23.
Mathematical analysis of electronic devices and circuits including power supplies, amplifiers, oscillators, and control circuits. 54 hours lecture.

ELE-25 - Digital Techniques 4 units
Prerequisite: None.
Advisory: Completion of or concurrent enrollment in ELE-10 or 23.
Mathematics, number systems and logic circuits as they relate to modern electronic computers and digital systems. Boolean algebra, circuit simplifications and mapping are included. Basic gate and digital circuits (MSI-LSI) will be analyzed and integrated into complete systems. Digital counters, registers, encoders/decoders, converters and timing. 54 hours lecture and 54 hours laboratory.

ELE-26 - Microprocessors and Microcontrollers 4 units
Prerequisite: None.
Advisory: ELE-25.
Computer number systems, codes, and arithmetic functions; microprocessor and microcontroller functions, architecture, instruction sets, addressing modes, internal operations, PLA interfacing, and I/O operations. Introduction to operating systems. 54 hours lecture and 54 hours laboratory.

ELE-27 - Technical Communications 3 units
(Same as ENE-27)
Prerequisite: None.
Procedures for organizing and presenting data through informal and formal documents and presentations. Includes practice in writing memoranda, letter reports, and informal technical reports. Also includes discussion of personal resume and preparation of job applications. 54 hours lecture.

ELE-28 - Automated Electronics Design and Documentation Tools 2 units
Prerequisite: None.
CSU
This course covers basic Computer-Aided Design (CAD) drafting, with emphasis on such procedures as apply directly to electronics. Schematic capture, block diagrams, printed circuit board design-layout. The use of Computer-Aided Design tools and electronics-library component templates will be emphasized. 18 hours lecture and 54 hours laboratory.

ELE-32 - FCC Radiotelephone License Exam Preparation 3 units
Prerequisite: ELE-10.
CSU
This class will focus intensively on advanced topics related to the Federal Communications Commission (FCC) licensing examination, elements I and III, for the commercial-class, General Radiotelephone Operator License. There will also be an introduction to element VIII, for the radar endorsement to the GROL. The FCC requires any technician or engineer who must repair or make adjustments to any radio frequency (RF) transmitting device of significant power output to hold a valid General Radiotelephone Operator License. Once issued, this license is valid for the lifetime of the bearer. May be taken a total of four times. 54 hours lecture.

ELE-36 - Advanced Microprocessors 4 units
Prerequisite: None.
CSU
The IAPX 88 microprocessor including function, architecture, instruction set, addressing modes, internal operations, interfacing and I/O operations. 54 hours lecture and 54 hours laboratory.

ELE-38 - Computer Systems Troubleshooting 4 units
Prerequisite: None.
CSU
Introduction to computer system troubleshooting and repair. System configurations are analyzed and evaluated. Problems are isolated using schematics, electronic test equipment, and software diagnostics. Preventive maintenance, safety and quality are stressed. 54 hours lecture and 54 hours laboratory.
ELE-39 - PCM and Digital Transmission 3 units
CSU
Prerequisite: None.
Advisory: ELE-25.
Pulse code modulation theory and applications, channel banks, cross connects, transmission facilities, frequency and time division multiplexing. Number systems, waveforms and digital basics are reviewed. 54 hours lecture.

ELE-40 - Fiber Optic Basics 3 units
CSU
Prerequisite: None.
Advisory: ELE-25 and 39.
Basic fiber optic theory, transmission theory, system components and cable; communication transmission systems, fiber multiplexing techniques and terminals, tests and test sets, and current technology trends are also presented. 54 hours lecture.

ELE-50 - Basic Electronics 1 unit
CSU
Prerequisite: None.
A general study of electronic theory, electronic devices, and simple circuits. Introduces the student to good laboratory procedures and equipment operation. 18 hours lecture and 18 hours laboratory.

ELE-56 - Computer Mathematics 3 units
CSU
Prerequisite: None.
Special mathematics essential to the understanding of modern electronic computers and cybernetic systems. Binary arithmetic, and Boolean algebra are included. 54 hours lecture.

ELE-61 - Introduction to Robotics 3 units
(Same as MAN-61)
CSU
Prerequisite: None.
Introduces students to electronics and manufacturing technology through construction, testing, and operation of functional robots. Participation in this class will encourage students to investigate further the career opportunities available to them in modern high-tech fields. 36 hours lecture and 54 hours laboratory.

ELE-63 - LabVIEW Visual Programming for Automated Systems 3 units
(Same as MAN-63)
Prerequisite(s): None.
Advisory: CIS-IA.
Prepares students to develop measurement and test systems, data acquisition, instrument control, data logging, and measurement analysis applications using LabVIEW. Students will create applications that acquire, process, display and store real world data. 36 hours lecture and 54 hours laboratory.

ELE-71 - Residential Wiring for Electricians 4 units
Prerequisite: None.
Explores the foundations of electrical wiring for residential dwellings. Topics include residential requirements and practices with commercial and industrial applications. Laboratory allows students to wire and test sample wall and ceiling sections. 54 hours lecture and 54 hours laboratory.

ELE-72 - Commercial and Industrial Electrical 4 units
(Same as MAN-72)
Prerequisite: None.
Focuses on the wiring of commercial and industrial buildings that use metal or concrete walls. The National Electrical Code will be stressed at it relates to grounding, soil conditions, conduits, raceways, cable-trays, fills, line/load wiring, circuit/motor protection, de-rating, tension, wire-splicing, control/power transformers, pipe-bending/supporting, lighting distribution/layout, and special considerations. Hands-on lab experiences are selected to reinforce key theories. 54 hours lecture and 54 hours laboratory.

ELE-73 - Electric Motors for Electricians 4 units
(Same as MAN-73)
Prerequisite: None.
Enables electricians to understand and effectively wire most standard DC motors, servos and steppers, as well as many AC motors, including single and poly-phase units, from fractional horsepower to multi-horsepower, industrial giants. 54 hours lecture and 54 hours laboratory.

ELE-74 - Industrial Electrical Automation 4 units
(Same as MAN-74)
Prerequisite: None.
Automatic monitoring, control and communications for electrical systems used with various motors; pneumatics/hydraulics basics; machines/processes control; production-lines; machine-vision; QC-inspection; palletizing; robotics; inventory transport, storage, distribution and reporting control systems. Topics include open-loop vs closed-loop control with feedback; PID; A/D and D/A conversion; remote-sensing/control and programming PLCs/PACs; networking; RFID and bar-codes are also discussed. 54 hours lecture and 54 hours laboratory.

ELE-75 - Electronics for Electricians 4 units
Prerequisite: None.
Enables electricians to integrate electronic devices into electrical systems for greater efficiency, flexibility and competitive advantage. 54 hours lecture and 54 hours laboratory.

ELE-76 - Electrician Specialties 4 units
Prerequisite: None.
Introduces electricians to the specialized needs and requirements of institutional, educational and government entities, along with overlapping demands of other specialty areas that include access-control, security/safety, flood, fire and gas detection, environmental controls and renewable energy systems, patient-monitoring, nurse-call, closed-circuit television (CCTV), Internet-Intercom and phone systems and remote-monitoring and control applications. 54 hours lecture and 54 hours laboratory.

ELE-77 - Survey of Electrical Trades 4 units
(Same as MAN-77)
Prerequisite: None.
An introduction to the ten primary electrical trades from residential, commercial and industrial jobs through to electrical specialties. Topics include basic electrical theory common to all electricians, such as: voltage, resistance, current, power, capacitance, inductance, reactance, impedance, blueprint symbols, Ohm’s Law, Power Law, Power-factor, using instrumentation, interpreting measurements, wire gauges, ampacity, circuit protection, shorts, opens, troubleshooting and safety. Examines electrical trades opportunities and responsibilities along with an overview of NEC and OSHA basics. 54 hours lecture and 54 hours laboratory.
ELE-200 - Electronics Work Experience 1-2-3-4 units
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

ENGINEERING
Instruction in the engineering major is based upon high school chemistry or physics and four years of high school mathematics, including intermediate and advanced algebra and trigonometry.

LOWER DIVISION ENGINEERING CURRICULUM
The Statewide Engineering Liaison Committee encourages engineering transfer students to complete prescribed Engineering Core and obtain verification of that at the community college to assure transferability as a junior to any UC, CSU, and selected private four-year college and/or university in the state.

Riverside Community College District’s courses which are equivalent to the Engineering Core requirements are listed as follows:

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MAT-1A, 1B</td>
<td>12</td>
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<tr>
<td>CHE-1A, 1B</td>
<td>10</td>
</tr>
<tr>
<td>CIS-17A</td>
<td>3</td>
</tr>
<tr>
<td>PHY-4A, 4B, 4C</td>
<td>12</td>
</tr>
<tr>
<td>ENE-10</td>
<td>1</td>
</tr>
<tr>
<td>ENE-22 or 23 or 30</td>
<td>3</td>
</tr>
<tr>
<td>ENE-35</td>
<td>3</td>
</tr>
<tr>
<td>ENG-1A</td>
<td>4</td>
</tr>
<tr>
<td>ELECTIVES</td>
<td>4 or more</td>
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<tr>
<td>TOTAL</td>
<td>64-67</td>
</tr>
</tbody>
</table>

Electives
Possible courses include, but are not limited to, the following. Choice depends on the engineering major requirements and specific engineering option at the school where graduation is expected.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ENE-1A</td>
<td>3</td>
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<tr>
<td>ENE-33</td>
<td>3</td>
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<tr>
<td>ENE-46</td>
<td>3</td>
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<tr>
<td>MAT-12</td>
<td>3</td>
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<tr>
<td>CHE-2A</td>
<td>4</td>
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<tr>
<td>CHE-12A</td>
<td>5</td>
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<tr>
<td>BIO-1</td>
<td>4</td>
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<tr>
<td>CIS-11</td>
<td>3</td>
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<tr>
<td>CSC-11</td>
<td>3</td>
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</tbody>
</table>

To establish all necessary prerequisites to upper division courses, the Statewide Engineering Liaison Committee indicates that it is imperative for engineering transfer students to concentrate on completing their technical (math, science, and engineering) course work and ENE-1A prior to transferring.

The requirements for the different fields of engineering may vary slightly from the outline listed above. All students should select classes to fulfill the core and/or general education requirements before transferring.

ENE-1A - Plane Surveying, I 3 units
Prerequisite: None.
Advisory: MAT-36.
Fundamental surveying methods and procedures as applied to land measurement, building trades and route location. Taping, leveling and angle measurements are studied, as are the analysis and adjustment of the measurements. 36 hours lecture and 54 hours laboratory.

ENE-1B - Plane Surveying, II 3 units
Prerequisite: ENE-1A.
Advisory: MAT-36.
Emphasis upon adjustment techniques and greater depth in error theory. Traverses and triangulation surveys are studied with elements of topographic surveying. Special problems similar to those encountered in actual practice. 36 hours lecture and 54 hours field laboratory.

ENE-10 - Introduction to Engineering 1 unit
Prerequisite: None.
An introduction to the career opportunities and skills needed as an engineer. Various forms of engineering communication including laboratory report writing, graphical presentations, and problem solving format are presented. The scientific method of investigation is covered. This course is recommended for all students considering career possibilities in engineering and/or engineering technology. 18 hours lecture.

ENE-18 - Legal Aspects of Surveying 3 units
Prerequisite: ENE-1AB or five years surveying experience.
A study of legal aspects related to public land survey, municipal property survey, and descriptions and laws affecting a surveyor. Includes property line surveys, methods of setting missing property corners. 54 hours lecture.

ENE-21 - Drafting 3 units
Prerequisite: None.
Fundamentals of mechanical drawing including lettering, instruments and their uses, geometric construction, types of projection, freehand drawing, sectioning, dimensioning, auxiliary views, and pictorial drawing. Recommended for beginners and students with up to one year of drafting in high school. 27 hours lecture and 90 hours laboratory.

Materials fee does not include substantial cost of equipment and text(s) required to be purchased by the student.

ENE-22 - Engineering Drawing 3 units
Prerequisite: ENE-21.
Advisory: ENE-30.
Drafting fundamentals briefly reviewed, geometric construction, orthographic projections, free-hand sketching, sectioning, auxiliary views, shop processes, dimensions and tolerances, fasteners, working and pictorial drawings, and as time permits, piping and electrical drawings. 27 hours lecture and 90 hours laboratory.
ENE-23 - Descriptive Geometry  
3 units  
UC, CSU  
**Prerequisite:** ENE-22 and MAT-36.  
Graphical (drafting) techniques applied to the solutions of vector problems, the development of surfaces as in sheetmetal work, the determination of lines of intersection between surfaces, and the solution of miscellaneous engineering problems involving points, lines, and planes. 27 hours lecture and 90 hours laboratory.

ENE-26 - Civil Engineering Drafting  
3 units  
CSU  
**Prerequisite:** ENE-21.  
**Advisory:** ENE-60 or MAT-36.  
This course is designed to provide exposure to civil engineering drafting. Emphasis will be placed upon developing topographic and contour maps, including their use in site preparation and basic earthwork calculations. Techniques for interpreting field notes and legal descriptions will also be examined. 27 hours lecture and 90 hours laboratory.

ENE-27 - Technical Communication  
3 units  
(Same as ELE-27)  
CSU  
**Prerequisite:** None.  
Procedures for organizing and presenting data through informal and formal documents and presentations. Includes practice in writing memoranda, letter reports, and informal technical reports. Also includes discussion of personal resume and preparation of job applications. 54 hours lecture.

ENE-28 - Technical Design  
3 units  
CSU  
**Prerequisite:** ENE-22.  
**Advisory:** ENE-30, 42 and 52.  
A study of industrial design and drafting procedures relating to the basic elements of mechanisms, including drawing of machine parts in various stages of manufacturing. Studies will include terminology, power transmission, bearings, fixtures, dies, ANSI-Y-14.5 standards of drawing, geometric dimensioning and tolerancing and manufacturing processes. Related problems include design layouts, detail and assembly drawings. A portfolio of completed drawings is a project requirement for this course (drawings may be drawn using the Computer-Aided Design system or the drawing board.) 27 hours lecture and 90 hours laboratory.

ENE-30 - Computer Aided Drafting (CAD)  
3 units  
CSU  
**Prerequisite:** None.  
**Advisory:** CIS-IA.  
A two-dimensional computer aided drafting class for drafters. Students will use an AUTOCAD computer drafting system to develop “computer drawn” drawings which are typical to the various fields of drafting. May be taken a total of two times. 27 hours lecture and 90 hours laboratory.

ENE-31 - Computer Aided Drafting and Design  
3 units  
CSU  
**Prerequisite:** ENE-30.  
This is the second course which presents an intensive study utilizing a two-dimensional Computer Assisted Drafting and Design (CAD) system to obtain graphic solutions, design refinements, modifications, and delineations of working technical drawings using AutoCAD. This course emphasizes basic high technology skills which are necessary to function as an entry level CAD operator. 27 hours lecture and 90 hours laboratory.

ENE-35 - Statics (Engineering Mechanics)  
3 units  
UC, CSU  
**Prerequisite:** PHY-4A.  
A study of force and equilibrium problems, free body diagram techniques, friction problems, second moments and moments of inertia, and their application to engineering. Algebraic, vector and classical, and graphical methods of calculation. 54 hours lecture.

ENE-42 - SolidWorks I  
3 units  
CSU  
**Prerequisite:** None.  
This course is designed to introduce the student to three-dimensional parametric solid modeling with SolidWorks. Students will begin with basic parametric solid modeling techniques and advance into complex assemblies requiring animation. May be taken a total of three times. 27 hours lecture and 90 hours laboratory.

ENE-42B - SolidWorks II  
3 units  
CSU  
**Prerequisite:** ENE 42 or prior SolidWorks experience.  
An advanced course in using the three-dimensional parametric solid-modeler SolidWorks. This course is designed to further 3D parametric solid modeling software techniques learned in SolidWorks I. Students will delve deeper into topics that were introduced in the first SolidWorks course such as extruding, sweeping, lofting, shelling, assemblies, and animation. May be taken a total of three times. 27 hours lecture and 90 hours laboratory.

ENE-46 - Manufacturing Processes I  
3 units  
(Same as MAN-46)  
CSU  
**Prerequisite:** None.  
This course is an introductory course for manufacturing processes. This course examines the use of machining, metallurgy, die stamping/ forming, casting, assembly methods, forging, inspection and other methods/processes/materials used in the manufacturing of metal components/products. Students will gain experience through lecture and lab practicum. 36 hours lecture and 54 hours laboratory.

ENE-51 - Blueprint Reading  
2 units  
**Prerequisite:** None.  
A beginning course in the study of blueprints and their interpretation, types of projection, symbols and abbreviations. This course is designed for students interested in print reading for the machine trades. 27 hours lecture and 27 hours laboratory.

ENE-52 - Geometric Dimensioning and Tolerancing  
2 units  
**Prerequisite:** None.  
A course presenting the basics of the Standards of Geometric Dimensioning and Tolerancing. This course will help students read, interpret and use ANSI Y14.5M, the current standard for drafting. 36 hours lecture.

ENE-60 - Math for Engineering Technology  
3 units  
**Prerequisite:** None.  
A course in mathematical problems frequently used by students enrolled in the trade and industrial and engineering programs. This course reviews basic arithmetic, linear measurement, basic algebra, basic plane geometry, trigonometry, and compound angles. 54 hours lecture.
ENE-61 - Computer Aided Design and Computer Aided Manufacturing 2 units
(Same as MAC-61)
Prerequisite: ENE-31 and MAC-57.
A course in computerized design and manufacture of parts and assemblies which will increase the student's ability to use the computer in CAD/CAM applications. This course continues the study of computerization and allows the student the opportunity to design and fabricate prototypes utilizing engineering and machining skills. 108 hours laboratory.

ENE-200 - Engineering Work Experience 1-2-3-4 units
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student's occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

ENGLISH

Most four-year colleges and universities will require transfer students to have eight units (two semesters) of composition. English 1A or 1H and 1B or 1BH at Riverside Community College District will meet this requirement.

ENG-1A - English Composition 4 units
UC, CSU
Prerequisite: ENG-50 or qualifying placement level.
Emphasizes and develops skills in critical reading and academic writing. Reading and writing assignments include exposition, argumentation, and academic research. Students will write a minimum of 10,000 words. Classroom instruction integrates Writing and Reading Center activities. Students may not receive credit for both ENG-1A and ENG-1AH. 72 hours lecture and 18 hours laboratory. (Letter Grade only.)

ENG-1AH - Honors English Composition 4 units
UC, CSU
Prerequisite: ENG-50 or qualifying placement level.
Limitation on enrollment: Enrollment in the Honors program.
Emphasizes and develops skills in critical reading and academic writing. Reading and writing assignments include exposition, argumentation, and academic research. Students will write a minimum of 10,000 words. Honors course offers an enriched experience for accelerated students through limited class size, seminar format, focus on primary texts; and application of higher level critical thinking skills. Students may not receive credit for both ENG-1A and ENG-1AH. Classroom instruction integrates Writing and Reading Center activities. 72 hours lecture and 18 hours laboratory. (Letter Grade only.)

ENG-1B - Critical Thinking and Writing 4 units
UC, CSU
Prerequisite: ENG-1A or 1AH.
This course develops critical thinking, reading, and writing skills through the formal study of argument and literature. Composition totaling a minimum of 10,000 words serves to correlate writing with reading. Classroom activities integrate with Writing and Reading Center activities. 72 hours lecture and 18 hours laboratory. Students may not receive credit for both ENG-1B and ENG-1BH. (Letter Grade only.)

ENG-1BH - Honors Critical Thinking and Writing 4 units
UC, CSU
Prerequisite: ENG-1A or 1AH.
Limitation on enrollment: Enrollment in the Honors program.
This course develops critical thinking, reading, and writing skills through the formal study of argument and literature. Composition totaling a minimum of 10,000 words serves to correlate writing with reading. Honors course offers an enriched experience for accelerated students through limited class size, seminar format, focus on primary texts, and application of higher level critical thinking skills. Students may not receive credit for both ENG-1B and ENG-1BH. Classroom activities integrate with Writing and Reading Center activities. 72 hours lecture and 18 hours laboratory. (Letter Grade only.)

ENG-4 - Writing Tutor Training 2 units
CSU
Prerequisite: ENG-1A or 1AH.
Designed to prepare students to become peer tutors in the Writing Center. Participants learn specific tutoring techniques and discuss problems, questions, and challenges in tutoring writing. Tutors develop student-centered, non-intrusive tutoring skills that avoid “appropriating the text” (i.e., becoming a proofreader, editor, or co-author). Topics include theory and practice of tutoring writing, including writing as a process, interpersonal communication techniques, cross-cultural tutoring, group learning, and computer programs applicable to writing instruction. May be taken a total of two times. 27 hours lecture and 27 hours laboratory.

ENG-6 - British Literature I: Anglo-Saxon through Eighteenth Century 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of British literature from the eighth century AD to 1800, including a comprehensive exposure to the poetry, drama, and fiction of this era as well as a basic understanding of the cultural, intellectual, and artistic trends it embodies. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-7 - British Literature II: Romanticism through Postmodernism 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of British literature from 1800 to the present, including a comprehensive exposure to the poetry, drama, and fiction of this era as well as a basic understanding of the cultural, intellectual, and artistic trends it embodies. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
ENG-8 - Introduction to Mythology 3 units
(Same as HUM-8)
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A study of Judeo-Christian, Greco-Roman and other mythological traditions. Emphasizes the historical sources and cultural functions of myths and legends in ancient societies and their continuing relevance to modern thought and culture. 54 hours lecture.

ENG-9 - Introduction to Shakespeare 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of Shakespeare’s plays and poetry, with the primary emphasis on exposing students to a representative sampling of his dramatic works and to the cultural, intellectual, and artistic contexts for his work. Both students who have read Shakespeare before and students who have no experience with Shakespeare are encouraged to take this class. 54 hours lecture.

ENG-10 - Special Studies in Literature 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
Designed to provide students with opportunities to focus on specialized areas of literature and/or specific authors, genres or literary themes. Topics are selected according to student and instructor interest and needs. May be taken a total of three times. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-11 - Creative Writing 3 units
UC, CSU
Prerequisite: ENG-1A or IAH.
Studies in fundamental principles and practice of writing fiction and poetry. Lectures and discussions emphasize analysis of professional examples of creative writing and study of creative writing theory. In-class workshops provide practice in creative writing techniques. In-class and out-of-class class writing assignments provide practice in writing techniques and in peer- and self-analysis. Subsequent enrollment in an additional semester affords students opportunity for further development of fiction and poetry projects, as well as further development of creative writing and analysis skills and techniques. This course may be taken a total of two times. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-14 - American Literature I: Pre-Contact through Civil War 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of American literature from the pre-contact period to the Civil War, including a comprehensive exposure to the prose, poetry and fiction of this era as well as a basic understanding of the cultural, intellectual and artistic trends it embodies. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-15 - American Literature II: 1860 to the Present 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of American literature from 1860 to the present, including a comprehensive exposure to the prose, poetry and fiction of this era as well as a basic understanding of the cultural, intellectual and artistic trends it embodies. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-18 - Survey of Native American Literature 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of Native American literature from early oral narrative to contemporary literature. Includes a comprehensive exposure to Native American prose, poetry, oratory, essay and modern fiction and a basic introduction to the cultural, social, intellectual and artistic trends of Native American culture and their relationship to contemporary literature. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-19 - Survey of African American Literature 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of African American literature from the early oral tradition to the present, including a comprehensive exposure to African American prose, poetry, and fiction as well as a basic understanding of the cultural, intellectual and artistic trends of African American culture and the relationship to contemporary literature. Students who have taken both ENG-21 and ENG-22 may not receive credit for ENG-20. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-20 - Survey of African American Literature 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of African American literature from the early oral tradition to the present, including a comprehensive exposure to African American prose, poetry, and fiction as well as a basic understanding of the cultural, intellectual and artistic trends of African American culture and the relationship to contemporary literature. Students who have taken both ENG-21 and ENG-22 may not receive credit for ENG-20. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-23 - The Bible as Literature 3 units
(Same as HUM-23)
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of the Hebrew Bible and New Testament with emphasis on literary form, styles, and themes, including the extensive influence of the Bible on Western literature. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-30 - Children’s Literature 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
A general survey of children’s literature from early times, with emphasis on contemporary works, including fantasy/science fiction, realistic, multicultural and historical fiction. Both oral and written assignments are required. 54 hours lecture.

ENG-35 - Images of Women in Literature 3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A study of images of women in literature which includes male and female authors and explores the cultural, sociological, political and economic bases for historical and contemporary literary images of women. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
ENG-40 - World Literature I: From Ancient Literatures  3 units through 1650 C.E.
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
Significant works of world literature from Ancient literatures through 1650 CE, including a comprehensive exposure to the poetic, dramatic, and prose forms of early cultures as well as a basic understanding of the cultural, intellectual, and artistic trends these works embody. Primary emphasis is on literature in translation. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-41 - World Literature II: 1650 C.E. Through the Present  3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
Significant works of world literature from the 1650 through the present, including a comprehensive exposure to the poetry, drama, and fiction of these periods as well as a basic understanding of the cultural, intellectual, and artistic trends these works embody. Emphasis on literature in translation. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-42 - Poetry from the Twentieth Century to the Present  3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
The study of major voices and trends in poetry of the twentieth and twenty-first century, examining the cultural and artistic contexts from which this poetry emerged. Topics include poetic structure and development and thematic elements. 54 hours lecture.

ENG-43 - Modern Drama  3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of drama from (roughly) 1870 to the present, including appraisal of modern theatrical movements, examination of drama’s function as a form of creative expression, exploration of ideas, societal factors and technology that have influenced modern drama, and investigation into the practice of the playwright and dramaturge. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ENG-44 - Short Story and Novel from the Twentieth Century to the Present  3 units
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A study of prose fiction from the twentieth century to the present, with an emphasis on writers of international standing whose work embodies significant formal developments and thematic concerns of prose narrative in the last century. 54 hours lecture.

ENG-45 - Basic English Composition  4 units
Prerequisite: ENG-60B, ESL-55 or qualifying placement level.
Emphasizes and develops skills in critical reading and academic writing as preparation for college-level composition. Students will write a minimum of 5,000 words. Classroom instruction integrates Writing and Reading Center activities. 72 hours lecture and 18 hours laboratory. (Letter Grade only.)

ENG-46 - Basic Literature and Composition  4 units
Prerequisite: None.
This class offers instruction of effective writing related to literature, emphasizing the short story, novel, drama and poetry. Instruction and assignments in writing correlate with reading, the study of composition techniques and include a review of the grammar, mechanics and usage of standard American English. Classroom activities integrate with Writing and Reading Center activities. 72 hours lecture and 18 hours laboratory.

ENG-47 - English Fundamentals: Sentence to Paragraph  4 units
Prerequisite: None.
Develops student’s writing, active-reading and grammar skills to basic-level performance. Emphasis is on correct writing at the sentence and paragraph level. May be taken a total of two times. 72 hours lecture and 18 hours laboratory. (Pass/No Pass only. Non-Degree Credit Course.)

ENG-48 - English Fundamentals: Paragraph to Essay  4 units
Prerequisite: ENG-60A or qualifying placement level.
Develops the student’s basic-level writing, active-reading and grammar skills to intermediate-level performance. Emphasis is on correct writing at the paragraph and short-essay level. May be taken a total of two times. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

ENG-49 - Writing Clinic  .5 unit
Prerequisite: None.
Intended for students who need concentrated attention in various areas of grammar, punctuation, and composition. Self-paced, open-entry/open-exit, with no traditional lecture-based component. Instead, it requires students to do the majority of their coursework independently. Each student follows a sequential series of modules based on his or her diagnosis. Students meet with their instructor in the Writing and Reading Center for the pre-and post-test and as needed for one-on-one instruction or small group study for the duration of the students’ enrollment in the course. 27 hours laboratory.

ENGLISH AS A SECOND LANGUAGE

ESL-51 - Basic Writing and Grammar  4 units
Prerequisite: None.
Emphasizes elementary competency in standard written English with a focus on basic writing and grammar skills. Instruction will also include vocabulary and reading skills necessary for success in basic English as a Second Language courses. Subsequent enrollment in an additional semester will provide the student with an opportunity for continued skills and competency development within the level and subject matter. May be taken two times. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

ESL-52 - Low-intermediate Writing and Grammar  4 units
Prerequisite: Qualifying placement level on a state-approved placement instrument, or successful completion of ESL-51.
Develops competency in standard written English with a continued focus on basic writing and grammar skills. Instruction includes vocabulary and reading skills necessary for success in low-intermediate English as a Second Language courses. Subsequent enrollment in an additional semester will provide the student with an opportunity for continued skills and competency development within the level and subject matter. May be taken two times. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)
ESL-53 - Intermediate Writing and Grammar 4 units
Prerequisite: Qualifying placement level on a state-approved placement instrument, or successful completion of ESL-52.
Increases competency in standard written English with a focus on intermediate and writing grammar skills. Instruction includes vocabulary and reading skills necessary for success in intermediate English as a Second Language courses. Subsequent enrollment in an additional semester will provide the student with an opportunity for continued skills and competency development within the level and subject matter. May be taken two times. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

ESL-54 - High-intermediate Writing and Grammar 5 units
UC, CSU
Prerequisite: Qualifying placement level on a state-approved placement instrument, or successful completion of ESL-53.
Emphasizes competency in standard written English with a focus on high-intermediate grammar and writing skills. Instruction includes an intensive review of vocabulary and reading skills necessary for success in high-intermediate English as a Second Language courses. Subsequent enrollment in an additional semester will provide the student with an opportunity for continued skills and competency development within the level and subject matter. May be taken two times. 90 hours lecture and 18 hours laboratory. (Degree credit course. Letter grade, or Pass/No Pass option.)

ESL-55 - Advanced Writing and Grammar 5 units
UC, CSU
Prerequisite: Qualifying placement level on a state-approved placement instrument, or successful completion of ESL-54.
Emphasizes competency in standard written English with a focus on developing paragraphs and essays in preparation for English composition classes. Instruction includes continued development of vocabulary, reading and academic skills necessary for success in college classes. Subsequent enrollment in an additional semester will provide the student with an opportunity for continued skills and competency development within the level and subject matter. May be taken two times. 90 hours lecture and 18 hours laboratory. (Degree credit course. Letter grade, or Pass/No Pass option.)

ESL-71 - Basic Reading and Vocabulary 4 units
Prerequisite: None.
Advisory: Enrollment in ESL-51 or 52 or qualifying placement level on a state-approved placement instrument.
Emphasizes the acquisition of simple reading skills, expansion of receptive and productive vocabulary, developing dictionary skills, and comprehension of short, adapted reading selections. Subsequent enrollment in an additional semester will provide the student with an opportunity for further skills and competency development at the basic level. May be taken two times. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

ESL-72 - Intermediate Reading and Vocabulary 4 units
Prerequisite: None.
Advisory: Enrollment in ESL-53 or 54.
Emphasizes the continued acquisition of reading skills needed for college level courses, expansion of receptive and productive vocabulary, and comprehension of medium-length adapted reading selections. Subsequent enrollment in an additional semester will provide the student with an opportunity for further skills and competency development at the intermediate level. May be taken two times. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

ESL-73 - High-intermediate Reading and Vocabulary 4 units
Prerequisite: None.
Advisory: Enrollment in ESL-53, 54, 55 or qualifying placement level on a state-approved placement instrument.
Emphasizes the acquisition of higher level reading skills needed for college level courses, expansion of receptive and productive vocabulary, further development of library skills, and comprehension of both adapted and authentic reading selections of varying lengths. Subsequent enrollment in an additional semester will provide the student with an opportunity for further skills and competency development at the high intermediate level. May be taken a total of two times. 72 hours lecture and 18 hours laboratory. (Degree credit course. Letter grade, or Pass/No Pass option.)

ESL-90C - Special Topics in ESL: Preposition Review 1 unit
Prerequisite: None.
Advisory: Qualification for ESL-53 or higher.
Provides students with basic instruction and practice in the use of prepositions and phrasal verbs. Attention will focus on specialized usage and problem areas. Topics include two- and three-part verbal idioms, two-part adjectives, adjectival and adverbial idioms, and prepositions used in normal discourse. May be taken a total of four times. 18 hours lecture. (Non-degree credit course. Pass/No Pass only.)

ESL-90D - Special Topics in ESL: Verb Tense Review 2 units
Prerequisite: None.
Advisory: Qualification for or enrollment in ESL-54 or higher.
Provides students with comprehensive review, practice, and use of all the basic English verb tenses. May be taken a total of four times. 36 hours lecture. (Non-degree credit course. Pass/No Pass only.)

ESL-90G - Special Topics in ESL: Mastering Articles: 1 unit
A, An, and The
Prerequisite: None.
Advisory: Qualification for or enrollment in ESL-53 or higher.
Provides students with extensive review of and practice using definite and indefinite articles in English. May be taken a total of four times. 18 hours lecture. (Non-degree credit course. Pass/No Pass only.)

ESL-90H - Special Topics in ESL: Phrases and Clauses 1 unit
Prerequisite: None.
Advisory: Qualification for or enrollment in ESL-53 or higher.
Provides students with basic instruction and practice in using phrases and clauses to write well-structured sentences. Enhances the students’ competence in identifying types of phrases and clauses in English and in using proper punctuation with compound and complex sentence structures. May be taken a total of four times. 18 hours lecture. (Non-degree credit course. Pass/No Pass only.)

ESL-90I - Special Topics in ESL: Punctuation Review 1 unit
Prerequisite: None.
Advisory: Qualification for ESL-53 or higher.
Will focus on specialized usage and problem areas. Topics include two- and three-part verbal idioms, two-part adjectives, adjectival and adverbial idioms, and prepositions used in normal discourse. May be taken a total of four times. 18 hours lecture. (Non-degree credit course. Pass/No Pass only.)

ESL-90J - Special Topics in ESL: Pronouns and Antecedents 1 unit
Prerequisite: None.
Advisory: Qualification for ESL-53 or higher.
Provides students with basic instruction and practice in using prepositional phrases, indirect objects, direct objects, and indirect objects. Attention will focus on specialized usage and problem areas. May be taken a total of four times. 18 hours lecture. (Non-degree credit course. Pass/No Pass only.)

ESL-90K - Special Topics in ESL: Prepositions and Prepositional Phrases 1 unit
Prerequisite: None.
Advisory: Qualification for ESL-53 or higher.
Provides students with basic instruction and practice in using prepositional phrases, indirect objects, direct objects, and indirect objects. Attention will focus on specialized usage and problem areas. May be taken a total of four times. 18 hours lecture. (Non-degree credit course. Pass/No Pass only.)
ESL-90J - Special Topics in ESL: Spelling Review 1 unit
Prerequisite: None.
Advisory: Qualification for ESL-53 or higher.
Improves students’ spelling skills. Students will analyze and apply the rules and principles of spelling in American English. May be taken a total of four times. 18 hours lecture. (Non-degree credit course. Pass/No Pass only.)

ESL-91 - Oral Skills I: Beginning Oral Communication 3 units
Prerequisite: None.
Advisory: Concurrent enrollment in ESL-51 or 52.
This course emphasizes beginning conversation, pronunciation and idiomatic skills along with basic listening comprehension. Conversational and idiomatic skills focus on fluent and appropriate use of common words and functional expressions in life skills areas — shopping, food, clothing, money/banking, car/license, travel, medicine. Pronunciation focuses on the articulation of English vowels and consonants and on the development of basic English patterns of stress and intonation. Listening stresses understanding verbal instructions and questions, common vocabulary and daily functions in an aural context, main ideas and details in monologues and dialogues. Subsequent enrollment in an additional semester will provide the student with an opportunity for further skills and competency development at the beginning level. May be taken a total of two times. 54 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

ESL-92 - Oral Skills II: Intermediate Oral Communication 3 units
Prerequisite: None.
Advisory: Concurrent enrollment in ESL-53 or 54.
This course develops intermediate conversation, pronunciation, idiomatic and aural comprehension skills. It is intended for non-native speakers of English who can make themselves understood but are not yet proficient in self-expression. Conversational and idiomatic skills focus on fluent and appropriate use of oral communication skills in a variety of social, business and/or academic situations. Pronunciation focuses on clearer articulation of English vowels and consonants and on increased control of the stress, intonation and rhythm of English. Listening comprehension stresses understanding verbal instructions and questions on campus and in the workplace. Students continue to learn appropriate verbal and non-verbal behavior as well as conversation management techniques to exchange ideas in small and large group communication. Subsequent enrollment in an additional semester will provide the student with an opportunity for further skills and competency development at the intermediate level. May be taken a total of two times. 54 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

ESL-93 - Oral Skills III: Advanced Oral Communication 3 units
Prerequisite: None.
Advisory: Concurrent enrollment in ESL-54, 55 or ENG-50.
This course develops advanced conversation, pronunciation, idiomatic and aural comprehension skills. Conversational and idiomatic skills focus on increasingly fluent communication and interaction skills in complex speaking situations and comfortable use of English in a variety of situations, both academic and professional. Pronunciation focuses on improved clarity of speech and on increased control of the stress, intonation and rhythm of English. Listening comprehension stresses understanding complex syntax, register, nuance and tone in conversations on campus and in the workplace. Students will learn how to speak at length on a given topic, both prepared and extemporaneous, and to understand the subtleties of conversational English. Subsequent enrollment in an additional semester will provide the student with an opportunity for further skills and competency development at the advanced level. May be taken a total of two times. 54 hours lecture and 18 hours laboratory. (Degree credit course. Letter grade, or Pass/No Pass option.)

ESL-95 - Pronunciation and Accent Reduction 3 units
Prerequisite: None.
Advisory: Qualification for ESL-52 or higher.
Provides students with basic instruction and practice in the oral production of English. Listening activities focus on comprehension of sentences, dialogues and paragraphs at normal speed and on discrimination of sound patterns in American English. Pronunciation focuses on stress, intonation, rhythm, phrasing, reduction, and linking as well as consonants, vowels and digraphs. The course emphasizes overall pronunciation improvement to make spoken communication more intelligible and to approximate more closely native rhythms and intonation. May be taken a total of three times. 54 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

FRENCH

FRE-1 - French 1 5 units
UC, CSU
Prerequisite: None.
This course concentrates on developing basic skills in listening, reading, speaking and writing. Emphasis is placed on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written French at the beginning level. This course includes discussion of French culture and daily life. 90 hours lecture and 18 hours laboratory.

FRE-2 - French 2 5 units
UC, CSU
Prerequisite: FRE-1.
Further development of basic skills in listening, reading, speaking and writing. A continued emphasis on the acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of standard spoken and written French at the beginning level. This course includes an expanded discussion of French culture and daily life. 90 hours lecture and 18 hours laboratory.
GIS-9 - Spatial Analysis with GIS 3 units CSU
Prerequisite: GIS-1.
This course provides an introduction to spatial analysis. This course will briefly review the principles of statistics and relate them to methods used in analysis of geographically referenced data. This course will introduce sampling strategies for data used in Geographic Information Systems (GIS) using raster and vector data structures. The fundamentals of conventional estimation techniques will be compared with geostatistical techniques. The course will present single and multilayer statistical operations including classification, coordination and modeling analysis. Applications and problems in spatial correlation will be discussed including interpretation of results of spatial analysis. 54 hours lecture.

GIS-13 - GIS for Science, Business and Government 3 units CSU
Prerequisite: GIS-9.
This course includes an in-depth survey of GIS applications in science (geography, geology, oceanography, archeology and meteorology), government (city, county, state and federal) and business (marketing, sales and management.) Topics include data acquisition, accuracy, analysis, presentation, techniques and legal issues for various GIS applications. Students will work on individual projects in specialized areas using GIS. Projects will include necessary hardware and software requirements, methods of data acquisition, formulations of data standards, methods of base map development, cost benefits analysis and generation of presentation quality map layouts specific to the student’s chosen GIS application. Students will evaluate GIS as an effective tool in the decision making process for their specific GIS application. 36 hours lecture and 54 hours laboratory.

GIS-17 - Advanced GIS Applications 3 units CSU
Prerequisite: GIS-9.
This course provides an introduction to advanced applications of Geographic Information Systems (GIS) using ArcView and ArcInfo. The course will provide hands-on training in new modules and extensions of ArcView and introduce hands-on training in ArcInfo. The course will introduce Avenue programming for customizing ArcView. The add on modules extend the analytical capabilities of ArcView and allow input of map features and conversion of feature themes from raster to vector. Spatial analysis will include slope and aspect maps, neighborhood and zone analysis. Network Analyst will include problem-solving techniques for geographic networks (point to point routing) or closest points. Use of ArcView and ArcInfo software to produce professional quality documents for use in spatial analysis and decision making. 36 hours lecture and 54 hours laboratory.

GIS-21 - Global Positioning System (GPS) 3 units Field Techniques
Prerequisite: GIS-1.
A course in the basic use of a hand-held Global Positioning System (GPS) unit in the field. The course will include an introduction to the terminology, hardware and technology used in GPS. Instruction will include the fundamentals of operating a hand-held GPS unit. The course will introduce the basic techniques used in the determination of location and completion of a traverse using a GPS unit and a topographic map. It will also explain how GPS data can be used in Geographic Information Systems (GIS). 36 hours lecture and 54 hours laboratory.
GIS-25 - Geographic Information Systems Internship 3 units
UC, CSU
Prerequisite: GIS-9.
A directed field study program where students will apply classroom instruction to real world Geographic Information Systems (GIS) projects in the community. Students should complete GIS-1 and GIS-9 and arrange for an advisor prior to enrolling in an internship. The student will be under the supervision of an advisor from the college while participating in a short-term internship program in a business or government agency using GIS. Students in internship programs will meet periodically with their advisor, complete interim reports and present a final report. 36 hours lecture and 54 hours laboratory.

GEOGRAPHY

GEG-1 - Physical Geography 3 units
UC, CSU
Prerequisite: None.
The interacting physical processes of air, water, land, and life which impact Earth’s surface. Topics include weather and climate, the water cycle, landforms and plate tectonics, and the characteristics of plant and animal life. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. There is a heavy emphasis on maps as descriptive and analytical tools. Students may not receive credit for both GEG-1 and GEG-1H. 54 hours lecture.

GEG-1H - Honors Physical Geography 3 units
UC, CSU
Prerequisite: None.
Limitation on enrollment: Enrollment in the Honors program.
The interacting physical processes of air, water, land, and life which impact Earth’s surface. Topics include weather and climate, the water cycle, landforms and plate tectonics, and the characteristics of plant and animal life. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. There is a heavy emphasis on maps as descriptive and analytical tools. The honors course offers an enriched experience for accelerated students by limited class size, seminar format, student generated and led discussions and projects, the application of higher level thinking, reading, and writing skills – analysis, synthesis, and evaluation. Students may not receive credit for both GEG-1 and GEG-1H. 54 hours lecture.

GEG-1L - Physical Geography Laboratory 1 unit
UC, CSU
Prerequisite: None.
Corequisite: Concurrent enrollment in or prior completion of GEG-1.
Practical application of scientific principles through geographically based in-class exercises using a variety of tools, such as maps, photos, and data in various forms. 54 hours laboratory.

GEG-2 - Human Geography 3 units
UC, CSU
Prerequisite: None.
The geographic analysis of the human imprint on the planet. A study of diverse human populations, their cultural origins, diffusion and contemporary spatial expressions emphasizing demography, languages, religions, urbanization, landscape modification, political units and nationalism, economic systems and development. Emphasis is given to interrelationships between human activities and the biophysical environment. 54 hours lecture.

GEG-3 - World Regional Geography 3 units
UC, CSU
Prerequisite: None.
A study of major world regions, emphasizing current characteristics and issues including cultural, economic, political and environmental conditions. Topics may include the natural environment, population distribution, cultural practices, political institutions, economic development, agricultural practices, and urbanization. 54 hours lecture.

GEG-4 - Geography of California 3 units
UC, CSU
Prerequisite: None.
An introduction to California’s physical and cultural diversity as well as the issues facing individual regions and the state. The course emphasizes ethnic diversity, human alteration of the landscape, and contemporary social, economic, and environmental issues using maps and other geographic tools. Topics include regions, demographic trends, politics, climate, landforms, natural vegetation, water resources, the cultural landscape, our Native American past, urbanization, agriculture, and the challenges of the future. 54 hours lecture.

GEG-5 - Weather and Climate 3 units
(Same as PHS-5)
UC, CSU
Prerequisite: None.
The nature and causes of common meteorological phenomena, severe weather occurrences, and climatic patterns. Topics include: atmospheric structure, solar radiation and energy balances, atmospheric moisture, clouds and fog, air pressure, winds air masses and fronts, cyclones, tornadoes, hurricanes, weather forecasting, climate classification, and climate change. 54 hours lecture.

GEG-6 - Geography of the United States and Canada 3 units
UC, CSU
Prerequisite: None.
An overview of the regions of the United States and Canada. Topics include including regional interactions and current political, economic, demographic, and cultural issues. 54 hours lecture.

GUIDANCE

GUI-45 - Introduction to College 1 unit
UC
Prerequisite: None.
Guidance 45 is designed to introduce academic and occupational programs, college resources and personal factors that contribute to success as a college student. This course includes an extensive exploration of Riverside Community College resources and policies, orientation to college life, student rights and responsibilities, as well as certificates, graduation and transfer requirements. Students will prepare a Student Educational Plan (S.E.P.). As a result of class activities and exploration of factors influencing educational decisions, class members will be able to utilize the information obtained in class to contribute to their college success. 18 hours lecture.
GUI-46 - Introduction to the Transfer Process 1 unit
CSU
Prerequisite: None.
Provides an introduction to the transfer process. This course includes an in-depth exploration of transfer requirements, admission procedures, requirements for majors, and financial aid opportunities.
The information learned will enable students to make informed choices on majors, four-year institutions and in academic planning. 18 hours lecture.

GUI-47 - Career Exploration and Life Planning 3 units
UC, CSU
Prerequisite: None.
In depth career and life planning: topics include extensive exploration of one’s values, interests and abilities; life problem-solving and self-management skills; adult development theory and the changes that occur over the life span; self-assessment including identifying one’s skills and matching personality with work. An intensive career investigation; decision making, goal setting and job search strategies, as well as resume writing and interviewing skills will also be addressed. This course is designed to assist those students considering the transition of a career change or undecided about the selection of a college transfer major. Required materials fee will be charged to the student and is not covered by BOGW. 54 hours lecture.

GUI-48 - College Success Strategies 2 units
CSU
Prerequisite: None.
This comprehensive course integrates personal growth and values, academic study strategies and critical thinking techniques. Students will obtain skills and personal/interpersonal awareness necessary to succeed in college. 36 hours lecture.

HEALTH SCIENCE

HES-1 - Health Science 3 units
UC, CSU
Prerequisite: None.
A basic study of the anatomy and physiology of the body, emphasizing modern concepts of prevention, treatment, and cure of degenerative and communicable diseases. This course satisfies the California requirement in drug, alcohol, tobacco and nutrition education for teacher certification. 54 hours lecture.

HISTORY

HIS-1 - History of World Civilizations I 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
A survey of the historical development of global societies, major social, political and economic ideas and institutions from their origins until the 16th century. Principal areas to be covered are: African civilizations of the Nile and sub-Saharan areas, Mesopotamian civilizations, Greek and Roman civilizations, Medieval and Reformation Europe, the Indus River, China and Japan. 54 hours lecture.

HIS-2 - History of World Civilizations II 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
A survey of the evolution of modern world civilizations from the 16th century emergence of new global, political, economic, social and intellectual patterns, through the era of industrialization and imperialism, to the world wars of the 20th century and the present. 54 hours lecture.

HIS-6 - Political and Social History of the United States 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Political, social and economic development of the United States from colonial foundations to 1877; the evolution of American thought and institutions; principles of state and local government. Students may not receive credit for both HIS-6 and HIS-6H. 54 hours lecture.

HIS-6H - Honors Political and Social History of the United States 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Limitation on enrollment: Enrollment in the Honors program
Political, social and economic development of the United States from colonial foundations to 1877; the evolution of American thought and institutions; principles of national, state, and local government. The honors course offers an enriched experience for accelerated students by limited class size, seminar format, student generated and led discussions and projects, the application of higher level thinking, reading, and writing skills - analysis, synthesis, and evaluation. Students may not receive credit for both HIS-6 and HIS-6H. 54 hours lecture.

HIS-7 - Political and Social History of the United States 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
A basic study of the political and social history of the United States from 1877 to the present; the evolution of American thought and institutions; principles of national, state and local government. Students may not receive credit for both HIS-7 and HIS-7H. 54 hours lecture.

HIS-7H - Honors Political and Social History of the United States 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Limitation on enrollment: Enrollment in the Honors program.
Political, social and economic development of the United States from 1877 to the present; the evolution of American thought and institutions; principles of national, state and local government. Students may not receive credit for both HIS-7 and HIS-7H. 54 hours lecture.
HIS-14 - African American History I 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
A selected study of the complex continent from which African Americans came with special emphasis on the historical, political and socioeconomic aspects of African civilizations in Egypt and the western Sudan; the transformation of the continent and of Africans through the transatlantic slave trade; and a study of the African American experience during their confinement as slaves in British North America and the early national and antebellum periods through the Civil War and Emancipation. 54 hours lecture.

HIS-25 - History of Mexico 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualifying reading placement level.
Mexico’s social, political, economic, and cultural evolution with a consideration of its place in world affairs. This introductory survey will stress the mosaic cultural influences from the pre-Columbian period to the present with an emphasis on the native cultures, wars of independence, the Mexican Revolution and Mexico in the 20th century. 54 hours lecture.

HIS-26 - History of California 3 units
UC, CSU
Prerequisite: None.
A history of California from the pre-Columbian period to the present, with emphasis on the period since statehood in 1850. 54 hours lecture.

HIS-31 - Introduction to Chicano Studies 3 units
UC, CSU
Prerequisite: None.
A survey of regional Chicano history and social problems from 1950 to the present. Included is an examination of the principles of state and local government as well as political, economic and social forces as they relate to contemporary Chicano problems. 54 hours lecture.

HIS-34 - History of Women in America 3 units
UC, CSU
Prerequisite: None.
A survey of the political, social, and cultural institutions which have shaped the role and character of women in America. The historical role of women in the development of the nation, and the ongoing struggle to achieve political, economic, and social equality will be examined. 54 hours lecture.

HUM-4H - Honors Arts and Ideas: Ancient World through the Medieval Period 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
An interdisciplinary study of the cultural movements in art, architecture, literature, music, philosophy, and religion of Western Civilization. The cultural achievements of the ancient world and the middle ages are studied to develop an understanding of their philosophical ideas, values, cultural meaning, artistic form, and contributions to modern thought. Students may not receive credit for both HUM-4 and HUM-4H. 54 hours lecture.

HUM-5H - Honors Arts and Ideas: The Renaissance through the Modern Era 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
An interdisciplinary study of the cultural movements in art, architecture, literature, music, philosophy, and religion of Western civilization. The cultural achievements of the Renaissance, Enlightenment, Romantic, Modern and post-Modern periods are studied to develop an understanding of their philosophical ideas, values, cultural meaning, artistic form, and contributions to modern thought. Students may not receive credit for both HUM-5 and HUM-5H. 54 hours lecture.

HUM-8 - Introduction to Mythology 3 units
(Same as ENG-8)
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A study of Judeo-Christian, Greco-Roman and other mythological traditions. Emphasizes the historical sources and cultural functions of myths and legends in ancient societies and their continuing relevance to modern thought and culture. 54 hours lecture.
HUM-10 - World Religions 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Thought and concepts of the major religious systems, including primal religions, extinct religions, Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam. Students may not receive credit for both HUM-10 and HUM-10H. 54 hours lecture.

HUM-10H - Honors World Religions 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Limitation on enrollment: Enrollment in the Honors program.
Thought and concepts of the major religious systems, including primal religions, extinct religions, Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam. The honors section of HUM-10 offers an enriched experience for students through limited class size, seminar format, discussions and projects generated and led by students, a focus on primary texts in translation and the application of higher level thinking and writing skills – analysis, synthesis and evaluation. Students may not receive credit for both HUM-10 and HUM-10H. 54 hours of lecture.

HUM-11 - Religion in America 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A; HUM-10.
Thought and practice of American religious traditions, including Native American practices, Protestantism, American religious sects (Mormons, Seventh-Day Adventists), Catholicism, Judaism and Asian religions. Attention is also directed to the relationship between religion and politics, and religion and the different ethnic and racial groups of American culture. Course requires participant observation in different religious settings. 54 hours lecture.

HUM-16 - Arts and Ideas: American Culture 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
An interdisciplinary survey of the cultural movements in art, architecture, literature, music, philosophy, and religion of American culture. American culture is studied in the context of American political culture, economic and industrial transformation, and the changing shape of American society. American arts and ideals are examined from the colonial period through the present. 54 hours lecture.

HUM-18 - Death: An Interdisciplinary Perspective 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
An interdisciplinary study of death from historical, mythological, religious, philosophical and biological perspectives. The evolving way in which world cultures have understood the problem of death is studied through work and literature, art and philosophy. 54 hours lecture.

HUM-20C - Arts and Ideas: Special Studies in Humanities 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
An interdisciplinary survey of the cultural movements in art, architecture, literature, music, philosophy or religion organized around first-hand observation of relevant works and/or lecture. Topics vary and take advantage of resources in study abroad programs, available museum and performance resources and needs and interests of students and faculty. May be taken a total of four times. 54 hours lecture.

HUM-23 - The Bible as Literature 3 units
(Same as ENG-23)
UC, CSU
Prerequisite: None.
Advisory: ENG-1B or 1BH.
A survey of the Hebrew Bible and New Testament with emphasis on literary form, styles, and themes, including the extensive influence of the Bible on Western literature. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

HUM-35 - Philosophy of Religion 3 units
(Same as PHI-35)
UC, CSU
Prerequisite: None.
Advisory: PHI-10 or 10H or 11.
An introduction to the examination of religious claims from a philosophical perspective. Emphasis will be placed upon examining the rational justification for various traditional faith claims, and upon examining the relationship between rationality and faith. The course presumes a basic knowledge of philosophical argumentation. 54 hours lecture.

Additional Humanities Courses
Examples of courses which are often classified as Humanities by other colleges and universities are:

- ART 1, 2 - History and Appreciation of Art
- ENG-6, 7 - English Literature
- ENG-14, 15 - American Literature
- ENG-40, 41 - Masterpieces of World Literature
- MUS 19, 20, 21 - Music History and Literature
- Any Philosophy course

See also Humanities A.A. Degree requirements

JAPANESE

JPN-1 - Japanese 1 5 units
UC, CSU
Prerequisite: None.
This course concentrates on developing basic skills in listening, reading, speaking and writing. Emphasis is placed on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Japanese at the beginning level. This course includes discussion of Japanese culture and daily life. 90 hours lecture and 18 hours laboratory.
JOU-7 - Mass Communications  3 units
UC, CSU
Prerequisite: JOU-1.
Further development of basic skills in listening, reading, speaking and writing. A continued emphasis on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of standard spoken and written Japanese at the beginning level. This course includes an expanded discussion of Japanese culture and daily life. 90 hours lecture and 18 hours laboratory.

JOURNALSISM

JOU-1 - Introduction to Journalism  3 units
CSU
Prerequisite: None.
Advisory: ENG-1A or 1AH.
The role of print media, with theory and practice in news story structure, responsible news evaluation, news gathering methods, interviewing, reporting techniques, copy editing, headline writing, and makeup techniques in general. 54 hours lecture.

JOU-7 - Mass Communications  3 units
UC, CSU
Prerequisite: None.
Surveys and evaluates the mass media. Special attention is given to newspapers, magazines, radio, TV, motion pictures, and advertising, and to their impact on society and the individual. 54 hours lecture.

JOU-20 - Newspaper  3 units
CSU
Prerequisite: None.
Advisory: JOU-1, PHO-8 or ENG-1A or 1AH.
Emphasis is on both theory and practice in producing the college newspaper. Qualified students may serve in various capacities, ranging from editorial work to photography, to advertising. Subsequent enrollment in additional semesters will provide the student an opportunity for additional skill and competency development within the subject matter. May be taken a total of four times. 18 hours lecture and 90 hours laboratory.

JOU-52 - Newspaper Editing  3 units
CSU
Prerequisite: None.
Advisory: JOU-1, PHO-8 or ENG-1A or 1AH.
Advanced practice in the production of a newspaper, with practical experience on the college newspaper. Course to include theory and practice in news editing, headline writing, page design, photographic theory and graphic arts processes. Weekly critiques of college newspaper to be included. Subsequent enrollment in additional semesters will provide the student an opportunity for additional skill and competency development within the subject matter. May be taken a total of four times. 36 hours lecture and 54 hours laboratory.

Also see PHOTOGRAPHY

LIBRARY

LIB-1 - Information Competency  1 unit
UC, CSU
Prerequisite: None.
Prepares the fundamentals of the effective use of libraries, electronic databases and retrieved information. Students will learn how to express information needs, access information from appropriate sources, evaluate retrieved data and organize it to solve problems. Information values and ethics will also be introduced. 18 hours lecture.

MACHINE SHOP TECHNOLOGY

MAC-55 - Occupational Safety and Health  2 units
Administration (OSHA) Standards for General Industry
(Same as MAN-55)
Prerequisite: None.
Covers OSHA policies, procedures, and standards, as well as safety for general industry and health principles. Topics include scope and application of the OSHA general industry standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful completion, the student will receive an OSHA 30 hour general industry training completion card. 36 hours lecture. (Letter Grade, or Pass/No Pass option.)

MAC-56 - CNC Machine Set-up and Operation  4 units
(Same as MAN-56)
Prerequisite: None.
Fundamental skills related to the setup and operation of CNC (Computer Numerically Control) machine tools. Students will setup and operate CNC machine tools exposing them to CNC controllers and some CNC manual programming. Students will gain hands-on experience with CNC machine tools. May be taken a total of three times. 54 hours lecture and 64 hours laboratory.

MAC-57 - CNC Program Writing  3 units
(Same as MAN-57)
Prerequisite: None.
Introduction to manual CNC program writing. This course includes the Cartesian coordinate system, absolute/incremental programming, circular interpolation, cutter radius compensation, canned cycles, and other programming techniques related to CNC machine tools. Students will gain hands-on experience with CNC machine tools. 40 hours lecture and 72 hours laboratory.

MAC-200 - Machine Shop Work Experience  1-2-3-4 units
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment. This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.
### MANAGEMENT

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MAG-44</td>
<td>Principles of Management</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>For those who are in management, preparing for a potential promotion or interested in the management process. Includes the primary functions of planning, organizing, controlling and leading as well as related skills such as team development, motivation and communication techniques, and quality management. Also social responsibility and a global perspective are emphasized. 54 hours lecture.</td>
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<tr>
<td>MAG-47</td>
<td>Applied Business and Management Ethics (Same as BUS-47)</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>An examination of ethical concerns in business decision making. Includes corporate, personal, global, governmental, public, environmental, product, and job-related issues. Case studies and corporate ethics programs and audits also covered. 54 hours lecture.</td>
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<tr>
<td>MAG-51</td>
<td>Elements of Supervision</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>Gives an overview of responsibilities of a supervisor in industry including organizational structure, training, work assignments, productivity, quality control, evaluations, and management-employee relations. 54 hours lecture.</td>
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<tr>
<td>MAG-52</td>
<td>Employee Training and Development</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>This course examines the forces influencing employee development through various methods such as training, strategic thinking, needs assessments, training evaluation, learning theories, e-learning and career development. 54 hours lecture.</td>
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<tr>
<td>MAG-53</td>
<td>Human Relations</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>A practical application of basic psychology in building better employer/employee relationships. Examines effective human relation techniques. 54 hours lecture.</td>
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<tr>
<td>MAG-54</td>
<td>Employee Labor Relations</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>This course provides a framework for studying labor relations, the objective of employee relationships, industrial relations, right of labor and management, labor law, bargaining, unions, employment contracts, grievances, developing effective new processes, history of labor relations and ethics. 54 hours lecture.</td>
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<tr>
<td>MAG-56</td>
<td>Human Resources Management</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>Examines the manager’s responsibility for implementing human resources applications involving the selection, training, evaluation, motivation and promotion of personnel. Compares and contrasts alternatives leading to innovative and socially responsible solutions to current employee relations issues with the workplace. 54 hours lecture.</td>
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<tr>
<td>MAG-70</td>
<td>Introduction to Organization Development (Same as BUS-70)</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>A study of organization-wide, planned efforts to increase organizational effectiveness using planned interventions by managers. Multiple intervention techniques, such as diagnostic activities, team building, process consulting, coaching and goal setting are covered. 54 hours lecture.</td>
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<tr>
<td>MAG-200</td>
<td>Management Work Experience (Same as ENE-46)</td>
<td>1-2-3-4 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>Advisory: Students should have paid or voluntary employment.</td>
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<td>This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.</td>
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### MANUFACTURING TECHNOLOGY

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MAN-46</td>
<td>Fundamentals of Manufacturing Processes I (Same as ENE-46)</td>
<td>3 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>This course is an introductory course for manufacturing processes. This course examines the use of machining, metallurgy, die stamping/forming, casting, assembly methods, forging, inspection and other methods/processes/materials used in the manufacturing of metal components/products. Students will gain experience through lecture and lab practicum. 36 hours of lecture and 54 hours of laboratory.</td>
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<tr>
<td>MAN-52</td>
<td>Computer-Aided Manufacturing–Mastercam</td>
<td>4 units</td>
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<td><strong>CSU</strong></td>
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<td><strong>Prerequisite:</strong> None.</td>
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<td>A course in computer-aided manufacture of parts and assemblies using MasterCam software. Applications of Numerical Control (NC) programming in machine processes with a focus on turning centers and milling operations. This course allows the student the opportunity to fabricate parts using computer interfaces with machining operations. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.</td>
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<tr>
<td>MAN-53</td>
<td>Advanced Computer-Aided Manufacturing</td>
<td>4 units</td>
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<td><strong>CSU</strong></td>
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<tr>
<td></td>
<td><strong>Prerequisite:</strong> MAN-52.</td>
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<td>This is an advanced course in the computer-aided manufacture of 3-dimensional parts and assemblies, using various Computer-Aided Manufacturing (CAM) software packages. This course will focus on the application of Computer Numerical Control (CNC) programming of turning centers and milling operations. Students will have the opportunity to fabricate complex parts by programming computer interfaces, which will in turn control machining operations. May be taken a total of two times. 54 hours lecture and 54 hours laboratory.</td>
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MAN-55 - Occupational Safety and Health 2 units
Administration (OSHA) Standards for General Industry
(Same as MAC-55)
Prerequisite: None.
This course covers OSHA policies, procedures, and standards, as well as safety for general industry and health principles. Topics include scope and application of the OSHA general industry standards. Special emphasis is placed on those areas that are the most hazardous, using OSHA standards as a guide. Upon successful completion, the student will receive an OSHA 30 hour general industry training completion card. 36 hours lecture and 64 hours laboratory. (Letter Grade, or Pass/No Pass option.)

MAN-56 - CNC Machine Set-up and Operation 4 units
(Same as MAC-56)
Prerequisite: None.
Fundamental skills related to the setup and operation of CNC (Computer Numerically Control) machine tools. Students will setup and operate CNC machine tools exposing them to CNC controllers and some CNC manual programming. Students will gain hands-on experience with CNC machine tools. May be taken a total of three times. 54 hours lecture and 64 hours laboratory.

MAN-57 - CNC Program Writing 3 units
(Same as MAC-57)
Prerequisite: None.
Introduction to manual CNC program writing. This course includes the Cartesian coordinate system, absolute/incremental programming, circular interpolation, cutter radius compensation, canned cycles, and other programming techniques related to CNC machine tools. Students will gain hands-on experience with CNC machine tools. 40 hours lecture and 72 hours laboratory.

MAN-59 - Computer Aided Manufacturing-GibbsCAM 4 units
Prerequisite: None.
A course in computer aided manufacture of parts and assemblies using GibbsCAM software. Applications of Numerical Control (NC) programming in machine processes with a focus on turning centers and milling operations. This course allows the student the opportunity to fabricate parts using computer interfaces with machining operations. This course may be taken a total of two times. 54 hours lecture and 54 hours laboratory.

MAN-60 - Hydraulic and Pneumatic Systems 3 units
Prerequisite: None.
Advisory: ENE-60 or MAT-52.
Basics of hydraulic and pneumatic systems including physical properties of liquids under pressure. Pumps, motors, accumulators, valves and drive cylinders are studied. The design and assembly of both high and low pressure fluid control systems from standard components is experienced. Applications of fluids in robotic and industrial equipment systems are presented. 40 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

MAN-61 - Introduction to Robotics 3 units
(Same as ELE-61)
Prerequisite: None.
Introduces students to electronics and manufacturing technology through construction, testing, and operation of functional robots. Participation in this class will encourage students to investigate further the career opportunities available to them in modern high-tech fields. 36 hours lecture and 54 hours laboratory.

MAN-63 - LabVIEW Visual Programming 3 units
for Automated Systems
(Same as ELE-63)
Prerequisite: None.
Advisory: CIS 1A.
Prepares students to develop measurement and test systems, data acquisition, instrument control, data logging, and measurement analysis applications using LabVIEW. Students will create applications that acquire, process, display and store real world data. 36 hours lecture and 54 hours laboratory.

MAN-64 - Programmable Logic Controllers 3 units
(Same as ELE-64)
Prerequisite: None.
Advisory: Recommend ELE-10 or 21.
Fundamentals of Programmable Logic Controllers (PLCs), with an emphasis on introductory programming of PLCs. Problem analysis with solutions that integrate programming formats, auxiliary commands and functions, common programming languages, and popular software programs used with PLCs. A comprehensive introduction to PLC theory, operation, installation, programming, maintenance, and troubleshooting. 36 hours lecture and 54 hours laboratory.

MAN-65 - Electric Motors for Electricians 3 units
(Same as ELE-73)
Prerequisite: None.
Enables electricians to understand and effectively use most standard DC motors, servos and steppers, as well as many AC motors, including single and poly-phase units, from fractional horsepower to multi-horsepower, industrial giants. 54 hours lecture and 54 hours laboratory.

MAN-66 - Commercial and Industrial Electrical 4 units
(Same as ELE-72)
Prerequisite: None.
Focuses on the wiring of commercial and industrial buildings that use metal or concrete walls. The National Electrical Code will be stressed at it relates to grounding, soil conditions, conduits, raceways, cable-trays, fills, line/load wiring, circuit/motor protection, de-rating, tension, wire-splicing, control/power transformers, pipe-bending/supporting, lighting distribution/layout, and special considerations. Hands-on lab experiences are selected to reinforce key theories. 54 hours lecture and 54 hours laboratory.

MAN-67 - Industrial Electrical Automation 4 units
(Same as ELE-74)
Prerequisite: None.
Automatic monitoring, control and communications for electrical systems used with various motors; pneumatics/hydraulics basics; machines/processes control; production-lines; machine-vision; QC-inspection; palletizing; robotics; inventory transport, storage, distribution and reporting control systems. Topics include open-loop vs closed-loop control with feedback; PID; A/D and D/A conversion; remote-sensing/control and programming PLCs/PACs; networking; RFID and bar-codes are also discussed. 54 hours lecture and 54 hours laboratory.
MAN-75A - Robotic Systems  
4 units  
Prerequisite: None.  
Advisory: MAT-36 or ENE-60 and MAC-56.  
The application of numerical control programming to perform multiple manufacturing process operations by positioning tools, material and robots for machining, assembly and inspection. Live robots will be programmed and used to complete automated manufacturing and assembly of simple products. May be taken a total of two times. 36 hours lecture and 108 hours laboratory.

MAN-77 - Survey of Electrical Trades  
4 units  
(Same as ELE-77)  
Prerequisite: None.  
An introduction to the ten primary electrical trades from residential, commercial and industrial jobs through to electrical specialties. Topics include basic electrical theory common to all electricians, such as: voltage, resistance, current, power, capacitance, inductance, reactance, impedance, blueprint symbols, Ohm’s Law, Power Law, Power-factor, using instrumentation, interpreting measurements, wire gauges, ampacity, circuit protection, shorts, opens, troubleshooting and safety. Examines electrical trades opportunities and responsibilities along with an overview of NEC and OSHA basics. 54 hours lecture and 54 hours laboratory.

MAN-91C - Manufacturing Fundamentals  
2 units  
for Apprenticeship  
Prerequisite: None.  
A course in the fundamentals of manufacturing for technicians. This course introduces basic safety, measurement, metal forming and stamping. Machine operation of presses, brakes and other metal forming equipment will be introduced as well as an introduction to tool protection, die lubrication and troubleshooting machine processes are covered. 36 hours lecture.

MAN-92B - Manufacturing Teamwork and Communication  
2 units  
Prerequisite: None.  
A course in the team concepts used in industries to support world class manufacturing. This course presents the procedures to work effectively as self directed work teams using informal written and oral communication. 36 hours lecture.

MAN-93C - Survey of Electronic Sensors  
2 units  
Prerequisite: MAN-91C.  
A course introducing the basic application, use and location of sensors in the metal forming industry. The course explains the types of sensors, when and why they are used. 36 hours lecture.

MAN-200 - Manufacturing Work Experience  
1-2-3-4 units  
CSU*  
Prerequisite: None.  
Advisory: Students should have paid or voluntary employment.  
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

MKT-20 - Principles of Marketing  
3 units  
CSU  
Prerequisite: None.  
Advisory: BUS-10.  
Examines the role of marketing as it relates to society and economic development. The course will analyze products, consumer, marketing research, and strategic market planning. The course will survey, with a global perspective, the selection of target markets as well as the development of the marketing mix - place, product, price and promotion. 54 hours lecture.

MKT-40 - Advertising  
3 units  
CSU  
Prerequisite: None.  
Economic, professional, persuasive and technical aspects of advertising, publicity and propaganda, and their relation to sociology and psychology. Campaign organization, research, and media of communication. Analysis and discussion of situation problems, mass motivation, consumer action and legal restraints. 54 hours lecture.

MKT-41 - Techniques of Selling  
3 units  
CSU  
Prerequisite: None.  
Examines the key topics of how to locate, qualify and approach prospects; how to deliver the sales presentation, how to meet objections and how to close the sale. The analysis of behavioral, ethical and philosophical factors as applied to the selling function globally. 54 hours lecture.

MKT-42 - Retail Management  
3 units  
CSU  
Prerequisite: None.  
Merchandising analysis of the changing concepts and business objectives of retailing. Management philosophies, strategies, and functions (from individual to multi-unit firms). Social and economic forces on decisions concerning location and operational policies. Analysis of forms of retailing, such as foods, motels, service stations, and direct channels. 54 hours lecture.

MKT-50 - Marketing Research  
3 units  
Prerequisite: None.  
An introduction to various research methodologies useful in the marketing environment. This course will focus on development, execution and application of marketing research, pulling it all together with completion of a marketing research project. 54 hours lecture.

MKT-200 - Marketing Work Experience  
1-2-3-4 units  
CSU*  
Prerequisite: None.  
Advisory: Students should have paid or voluntary employment.  
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.
## MATHEMATICS

**MAT-1A - Calculus I**

4 units

UC*, CSU

Prerequisite: MAT-10 or qualifying placement level.

Functions, limits, continuity, differentiation, inverse functions, applications of the derivative including maximum and minimal problems, and basic integration. 72 hours lecture and 18 hours laboratory.

**MAT-1B - Calculus II**

4 units

UC, CSU

Prerequisite: MAT-1A.

Techniques of integration, applications of integration, improper integrals, infinite sequences and series, parametric equations, polar coordinates and conic sections. 72 hours lecture and 18 hours laboratory.

**MAT-1C - Calculus III**

4 units

UC, CSU

Prerequisite: MAT-1B.

Vectors in a plane and in space, vector valued functions, partial derivatives, multiple integrals, line and surface integrals, indeterminant forms, and elementary applications to the physical sciences. 72 hours lecture.

**MAT-2 - Differential Equations**

4 units

UC, CSU

Prerequisite: MAT-1B.

Special types of differential equations, linear first and second order differential equations, series solutions, Laplace transforms, matrix theory, and elementary applications to the physical and biological sciences. 72 hours lecture.

**MAT-3 - Linear Algebra**

3 units

UC, CSU

Prerequisite: MAT-1B.

Introduction to matrix algebra, determinants, systems of linear equations, vector spaces, linear independence, linear transformations, eigenvalues and eigenvectors and applications. 54 hours lecture.

**MAT-4 - Finite Mathematics**

3 units

UC, CSU

Prerequisite: MAT-35.

Mathematics for majors in economics, business management, biological and social sciences. Topics include: system of equations, linear programming, matrices, probabilities, permutations and combinations, statistics and logic. 54 hours lecture.

**MAT-5 - Calculus, A Short Course**

4 units

UC*, CSU

Prerequisite: MAT-35 or qualifying placement level.

Calculus for majors in economics, business management, biological and social sciences. Emphasis on problem solving and applications. Topics include: functions, graphs, limits, differentiation, integration exponential and logarithmic functions. 72 hours lecture.

**MAT-6 - Discrete Mathematics for Computer Science**

3 units

(Same as CSC-6)

CSU

Prerequisite: MAT-10.

Advisory: CSC-5.

Fundamental topics for Computer Science, such as logic, proof techniques, sets, basic counting rules, relations, functions and recursion, graphs and trees. 54 hours lecture.

**MAT-10 - Precalculus**

4 units

UC*, CSU

Prerequisite: MAT-36 or qualifying placement level.

An integrated treatment of algebra and trigonometry at the college level, with major emphasis on polynomial, rational, exponential, logarithmic, trigonometric and inverse functions, sequences and series, mathematical induction, analytic geometry, partial fractions, polar coordinates and parametric equations. The course is designed to prepare students for the study of calculus. 72 hours lecture.

**MAT-11 - College Algebra**

4 units

UC*, CSU

Prerequisite: MAT-35 or qualifying placement level.

Topics include algebra review, linear and quadratic equations and inequalities, systems of linear equations and inequalities, functions, exponential and logarithmic functions, permutations and combinations, binomial theorem, and linear programming. 72 hours lecture.

**MAT-12 - Statistics**

3 units

UC, CSU

Prerequisite: MAT-35 or qualifying placement level.

A comprehensive study of measures of central tendency and variation, the normal distribution, the t-distribution, the chi-square distribution, linear correlation, testing of hypotheses, probability, and estimation. Students may not receive credit for both MAT-12 and MAT-12H. 54 hours lecture.

**MAT-12H - Honors Statistics**

3 units

UC, CSU

Prerequisite: MAT-35 or qualifying placement level.

Limitation on enrollment: Enrollment in the Honors program.

A comprehensive study of measures of central tendency and variation, the normal distribution, the t-distribution, the chi-square distribution, linear correlation, testing of hypotheses, probability, and estimation. Honors course offers an enriched experience for accelerated students through limited class size, seminar format, focus on primary texts, and application of higher-level critical thinking skills. Students may not receive credit for both MAT-12 and MAT-12H. 54 hours lecture.

**MAT-25 - A Survey of Mathematics**

3 units

UC, CSU

Prerequisite: MAT-35 or qualifying placement level.

This is a survey course with selected topics from the history and development of mathematics, patterns and inductive reasoning, set theory and deductive reasoning, the real number system, algebra, geometry, probability, statistics, and problem solving. It is designed for students majoring in liberal arts, education or communication. Calculators or computers may be used for selected topics. 54 hours of lecture.

**MAT-32 - Introduction to Symbolic Logic**

3 units

(Same as PHI-32)

UC, CSU

Prerequisite: None.

Limitation on enrollment: May not be taken if credit for PHI-32 has been granted.

Introduces the principles of deductive reasoning, including the practical application of modern symbolic techniques. 54 hours lecture.
MAT-35 - Intermediate Algebra
Prerequisite: MAT-52 or qualifying placement level.
The concepts introduced in beginning algebra are presented again, but in greater depth. In addition to the basic operations, logarithms, exponential equations, systems of linear and nonlinear equations, Cramer’s Rule, the Binomial Theorem, the complex number system, and sequences and series are included. 90 hours lecture.

MAT-36 - Trigonometry
4 units
CSU
Prerequisite: MAT-35 and 53 or qualifying placement level.
The study of trigonometric functions, their inverses and their graphs; identities and proofs related to trigonometric expressions; solving trigonometric equations; solving right triangles; solving oblique triangles using the law of cosines and the law of sines; elements of geometry important to the foundation of trigonometry. 72 hours lecture.

MAT-52 - Elementary Algebra
4 units
Prerequisite: MAT-64 (formerly MAT-50), 65, 90F or qualifying placement level.
Examines real numbers and variables as they are involved in polynomials, fractions, linear equations, quadratic equations, systems of equations, inequalities, exponential and radical expressions, and absolute value. Factoring, graphing and word problem applications will also be included. 72 hours lecture.

MAT-53 - College Geometry
3 units
Prerequisite: MAT-52 or qualifying placement level.
A course covering the study of geometric figures in the Euclidean plane, including angles, triangles, quadrilaterals, circles and solids: formulas for measuring such figures, including perimeter, area and volume; proofs using postulates and theorems associated with congruent triangles, parallel and perpendicular line segments, and angle measures; construction of angles and segment measures. 54 hours lecture.

MAT-63 - Arithmetic
3 units
Prerequisite: None.
A course covering the decimal system of numeration and the four basic mathematical operations as they apply to whole numbers, fractions, mixed numbers, and decimals. Factoring, percentage applications, geometric figures, and measurements are included. Emphasis is placed on applications to real world problems. Computations will be performed without the use of any calculating device. 54 hours lecture. (Non-degree credit course.)

MAT-64 - Pre-Algebra
3 units
Prerequisite: MAT-63 (formerly MAT-51), 90C, or qualifying placement level.
An introduction to the notion of algebra and its uses. Includes integers, equations, and polynomials as well as topics from arithmetic. Designed as a transition from arithmetic to elementary algebra. 54 hours lecture. (Non-degree credit course.)

MAT-65 - Arithmetic and Pre-Algebra
5 units
Prerequisite: None.
A combination course covering the decimal system of numeration and the four basic mathematical operations as they apply to whole numbers, fractions, mixed numbers, and decimals without the use of any calculating device. Integers, factoring, geometric figures, and measurements are included. Emphasis is placed on applications to real world problems. An introduction to the notion of algebra and its uses. Includes equations and polynomials. 90 hours lecture. (Non-degree credit course.)

MAT-98 - Academic Excellence Seminar
.5 unit
Prerequisite: None.
Corequisite: Concurrent enrollment in First-Year Experience program.
Interactive seminar designed to enhance students’ learning skills and experience in mathematics. May be taken a total of two times. 27 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

MICROBIOLOGY
MIC-1 - Microbiology
4 units
Prerequisite: CHE-2A and one of the following: AMY-2A, 2B, 10, BIO-1, 2A, 2B, 5, 8, 11, 12 or 34.
General characteristics of microorganisms with emphasis on morphology, growth, reproduction and chemical activities; their control; role in disease; and application of their role to mankind. 54 hours lecture and 54 hours laboratory.

COMMERCIAL MUSIC
MUC-1 - Performance Techniques for Studio Recording
1 unit
Prerequisite: None.
Introduction to practical performance techniques for the recording studio. Students will have the opportunity to plan and implement their own recording session utilizing techniques such as sound design, microphone technique, sound effects, mixing and production. The class will culminate in a CD recording. This class is appropriate for vocalists, instrumentalists and future recording artists. May be taken a total of four times. 54 hours laboratory.

MUC-2 - Songwriting
1 unit
Prerequisite: None.
Introduction to commercial songwriting techniques. Topics covered include form, rhythm, melody, lyrics, chord progressions, preparing lead sheets and arranging. This course is ideal for vocalists and instrumentalists. Subsequent enrollment will provide students an opportunity for additional skill development and improved competency in the subject area. May be taken a total of four times. 17 hours lecture and 32 hours laboratory.

MUC-3 - Introduction to Pro Tools: MIDI and Audio Production
3 units
Prerequisite: None.
An introduction to MIDI (Musical Instrument Digital Interface) and digital audio using the industry-standard Pro Tools software. Students will learn the basic principles of MIDI sequencing and editing, recording and editing digital audio and Pro Tools 101 material. Students who successfully complete the course will be eligible to take the Pro Tools 101 certification exam through DigiDesign. Subsequent enrollment will provide students an opportunity for additional skill development in the subject area. May be taken a total of four times. 36 hours lecture and 54 hours laboratory.
**MUC-10 - Norco Choir**  
2 units  
CSU  
*Prerequisite: None.*  
A mixed-voice ensemble dedicated to the performance of traditional choral music, commercial music, spirituals, choral jazz and other 20th century vocal works of the highest quality. Performances may include but are not limited to concerts on campus, community performances, studio recordings, TV tapings, movie appearances, celebrity concerts and national/international tours. Subsequent enrollment in additional semesters will provide the student with an opportunity for additional skill and competency development in the subject area. May be taken a total of four times. 108 hours laboratory.

**MUC-11 - Studio Arts Ensemble**  
2 units  
CSU  
*Prerequisite: None.*  
Designed for instrumentalists, vocalists and technical crew interested in the field of commercial music and entertainment. This ensemble is open to singers, guitarists, drummers, bassists, horn players, string players, pianists/keyboardists and/or technical crew members who work collaboratively to study, perform and/or record selected musical arrangements. The music studied in this class will be chosen from a diverse library of popular music literature throughout history. Subsequent enrollment will provide students an opportunity for additional skill development and competency in the subject area. May be taken a total of four times. 108 hours laboratory.

**MUS-1 - Teaching Music to Young Children**  
3 units  
CSU  
*Prerequisite: None.*  
Instruction in teaching music to young children. Emphasis will be on music for early childhood ages 3 - 8. Musical elements and theory will be introduced through activities appropriate for children. 54 hours lecture.

**MUS-3 - Fundamentals of Music**  
4 units  
UC, CSU  
*Prerequisite: None.*  
*Advisory: Concurrent enrollment in MUS-32 and another music performance class.*  
Basic course in music theory designed to develop an understanding of notation, rhythm, pitch, keys, modes, scales, intervals, chords and music terminology. Sightsinging, dictation and music reading using the keyboard. 54 hours lecture and 54 hours laboratory.

### MUS-19 - Music Appreciation  
3 units  
UC, CSU  
*Prerequisite: None.*  
A comprehensive study of musical style, form, and materials organized to acquaint the student with representative musical literature through listening, reading and writing. 54 hours lecture.

### MUS-25 - Jazz Appreciation  
3 units  
UC, CSU  
*Prerequisite: None.*  
A comprehensive study of jazz from its origins to the present day. Study will be centered on influential composers, instrumentalists, vocalists and arrangers. There will also be an introduction to and study of musical elements such as instrumentation, lyrics, form, rhythm and harmony. 54 hours lecture.

### MUS-26 - Film Music Appreciation  
3 units  
UC, CSU  
*Prerequisite: None.*  
A study of film music in the United States from 1927 to the present day. Study will be centered on originally composed scores by prominent composers and arrangers. 54 hours lecture.

### MUSICAL PERFORMANCE

Music majors are required to participate in performance classes and applied music (one-on-one instruction) each semester they are enrolled.

**MUS-30 - Class Voice**  
1 unit  
UC, CSU  
*Prerequisite: None.*  
Group study of vocal production, voice techniques, diction and interpretation. Opportunity provided for individual attention and performance. May be taken a total of four times. 54 hours laboratory.
MUS-31 - College Choir 1 unit
UC, CSU
Prerequisite: None. Open to all students interested in a college choral singing experience.
A vocal ensemble of mixed voices dedicated to the study, rehearsal and performance of a variety of choral literature. May be taken a total of four times. 54 hours laboratory.

MUS-32 - Class Piano 1 unit
UC, CSU
Prerequisite: None.
Group work in developing keyboard facility and reading of music notation. Opportunity provided for individual attention and performance. Developing knowledge and facility with primary and secondary chords and their use in song accompaniment patterns. Subsequent enrollment will provide the student an opportunity for additional skill and competency development. May be taken a total of four times. 17 hours lecture and 32 hours laboratory.

MUS-33 - Vocal Jazz Ensemble 2 units
UC, CSU
Prerequisite: None.
Advisory: Concurrent enrollment in MUS-29, 41, 51, 69 or 81.
Limitation on enrollment: Audition on or before the first class meeting.
A select vocal ensemble dedicated to the study and performance of jazz music arranged for vocal jazz ensemble. Appearances at public and private functions will be made throughout the year. Opportunity for students to arrange and compose. May be taken a total of four times. 108 hours laboratory.

MUS-34 - Vocal Jazz Lab 1 unit
UC, CSU
Prerequisite: None.
Corequisite: MUS-33 or 73.
Limitation on enrollment: Audition on or before the first class meeting.
A course for select vocal students dedicated to the study, rehearsal and public performance of music in vocal jazz in smaller groups. May be taken a total of four times. 54 hours laboratory.

MUS-35 - Vocal Music Ensembles 1 unit
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting.
A small select vocal group dedicated to the rehearsal and performance of classical and madrigal literature. Public performance in concert or recital situations will take place throughout the semester. May be taken a total of 4 times. 54 hours laboratory.

MUS-37 - Class Guitar 1 unit
UC, CSU
Prerequisite: None.
Fundamentals of guitar performance and basic musicianship. Introduction to music notation, basic guitar technique and development of basic repertoire. May be taken a total of four times. 17 hours lecture and 32 hours laboratory.

MUS-38 - Beginning Applied Music Training 2 units
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting.
Vocal or instrumental instruction for students who are proficient performers who could benefit from individualized instruction in preparation for a job in the music field or to prepare for performance auditions. Attendance at related concerts required. Not designed for beginning students. Beginning students are encouraged to take class piano, voice class or guitar class as an entry into the field of music performance. May be taken a total of four times. 108 hours laboratory.

MUS-39 - Intermediate Applied Music 3 units
UC, CSU
Prerequisite: None.
Corequisite: Enrollment in a two-unit performance ensemble.
Limitation on enrollment: Audition on or before the first class meeting.
Individual instruction on a musical instrument or voice, supervised practice, concert attendance and ensemble participation. May be taken a total of four times. 162 hours laboratory.

MUS-43 - Jazz Improvisation and Theory 1 unit
UC, CSU
Prerequisite: None.
Practical experience in the art of jazz improvisation and the theory behind effective improvisation. Jazz combo or similar format provides the basis for improvisation instruction, benefiting both the beginner and the experienced player. May be taken a total of four times. 54 hours laboratory.

MUS-51 - Men’s Ensemble 1 unit
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting.
A select choir dedicated to the study, rehearsal and public performance of a variety of men’s ensemble literature. May be taken a total of four times. 54 hours laboratory.

MUS-65 - Basic Musicianship 2 units
UC, CSU
Prerequisite: None.
An introduction to the basic knowledge and skills necessary to develop the ability to read music. Study of basic skills in music reading, ear training, sight-singing, melodic and harmonic dictation. 36 hours lecture.

MUS-71 - College Chorus 1 unit
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting.
An advanced vocal ensemble of mixed voices dedicated to the further study, rehearsal and performance of a variety of choral literature. May be taken a total of four times. 54 hours laboratory.

MUS-72 - Group Keyboarding Skills 1 unit
UC, CSU
Prerequisite: None.
Keyboard skills for advanced performance on keyboards in all keys. Includes skills for accompanying individuals and groups. Opportunity provided for group and individual performance. May be taken a total of four times. 17 hours lecture and 32 hours laboratory. (Letter Grade, or Pass/No Pass option.)
MUS-73 - Vocal Jazz Singers 2 units 
UC, CSU
Prerequisite: None.
Advisory: Concurrent enrollment in MUS-29, 41, 51, 69 or 81.
Limitation on enrollment: Audition on or before the first class meeting.
An advanced vocal jazz ensemble of singers dedicated to the further study and performance in jazz styles arranged for vocal jazz ensemble. Appearances at public and private functions will be made throughout the year. May be taken a total of four times. 108 hours laboratory.

MUS-75 - Advanced Vocal Ensembles 1 unit 
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting. This course is for advanced students who need more work on small group literature. There is opportunity for public performance and solo recital concerts. Subsequent enrollment will provide the student an opportunity for additional competency development within the subject matter. May be taken a total of four times. 54 hours laboratory.

MUS-77 - Guitar Ensemble 2 units 
UC, CSU
Prerequisite: None.
Limitation on enrollment: Previous experience with classical guitar and an audition on or before the first class meeting. An ensemble dedicated to the study, rehearsal and performance of a variety of literature written or transcribed for classical guitar ensemble. Subsequent enrollment will provide the student an opportunity to gain additional skill and competency within the subject matter. May be taken a total of four times. 108 hours laboratory.

MUS-78 - Beginning Applied Music Training II 2 units 
UC, CSU
Prerequisite: None. 
Limitation on enrollment: Audition on or before the first class meeting. Intermediary vocal or instrumental instruction. Attendance at related concerts required. Not designed for beginning students. Beginning students are encouraged to take class piano, voice class, or guitar class as an entry into the field of music performance. May be taken a total of four times. 108 hours laboratory.

MUS-83 - Advanced Chamber Choir 1 unit 
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting. Advanced student and community chamber choir dedicated to the study, rehearsal and public performance of a variety of chamber choral literature. Activities will include concerts, festivals, radio and TV broadcasts and private appearances. May be taken a total of four times. 54 hours laboratory.

MUS-89 - Music of Multicultural America 3 units 
UC, CSU
Prerequisite: None.
A comparative and integrative study of the multicultural musical styles of the United States. Includes the music of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans from their historical roots to the present. Analysis of musical traditions from a technical and cultural perspective; and sequential development of listening and descriptive skills through a variety of media including films, recordings and computer-assisted instruction. 54 hours lecture.

MUS-93 - The Business of Music 3 units 
CSU
Prerequisite: None.
Study of contracts, trademarks and copyrights, and marketing; including the roles of personal managers, business managers, attorneys and agents. Overview of songwriting, publishing, recording and royalties. Basics of touring, merchandising and local arrangements. 54 hours lecture.

MUS-200 - Music Work Experience 1-2-3-4 units 
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment. 
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

MUS-P44 - Jazz Lab Band 1 unit 
UC, CSU
Prerequisite: None.
Limitation on enrollment: Audition on or before the first class meeting. Designed for students who are beginning or intermediate jazz performers. Study and performance of beginning and intermediate literature for jazz ensemble. May be taken a total of four times. 54 hours laboratory.

NATIVE AMERICAN STUDIES
In cooperation with representatives of the Native American community, Riverside Community College District has developed a number of courses designed to meet the special needs and interests of Native American students. At the same time, these courses provide an opportunity for other students to develop an understanding of and appreciation for the richness of the Native American heritage and its contributions to American life.

Among these courses are:
ANT-4 - Native American Cultures

OFFICE ADMINISTRATION
See COMPUTER APPLICATIONS AND OFFICE TECHNOLOGY

PHILOSOPHY

PHI-10 - Introduction to Philosophy 3 units 
UC, CSU
Prerequisite: None.
A survey and exploration of significant questions in the Western philosophical tradition. Questions are drawn from the various branches of philosophy: metaphysics, theory of knowledge, ethics, aesthetics, political philosophy and/or philosophy of religion. Students may not receive credit for both PHI-10 and PHI-10H. 54 hours lecture.
PHI-10 - Honors Introduction to Philosophy 3 units
UC, CSU
Prerequisite: None.
Limitation on enrollment: Enrollment in the Honors program.
A survey and exploration of significant questions in the Western philosophical tradition through an examination of primary sources. Questions are drawn from the various branches of philosophy: metaphysics, theory of knowledge, ethics, aesthetics, political philosophy and/or philosophy of religion. The honors course offers an enriched experience for accelerated students by means of limited class size, seminar format, discussions and projects generated and led by students, the application of higher level thinking and writing skills—analysis, synthesis, and evaluation. Students may not receive credit for both PHI-10 and PHI-10H. 54 hours lecture.

PHI-11 - Critical Thinking 3 units
UC, CSU
Prerequisite: None.
This course presents critical thinking as a skill to be used for better understanding, evaluating and constructing arguments. The focus will be on developing and enhancing the student’s ability to identify, analyze and present arguments. Topics covered through analysis and writing include the nature of argument, inductive and deductive reasoning, rhetoric, theory of knowledge, scientific method, informal fallacies. 54 hours lecture.

PHI-12 - Introduction to Ethics: Contemporary Moral Issues 3 units
UC, CSU
Prerequisite: None.
Contemporary problems in ethics. An examination of the moral problems of today in light of ethical theory. Problems examined may include abortion, euthanasia, the death penalty, affirmative action, war, racism, sexism, and others. 54 hours lecture.

PHI-15 - Bio-Medical Ethics 3 units
UC, CSU
Prerequisite: None.
An introduction to some of the ethical questions which affect medical research and the health care industry. The topics covered will include: the foundation of ethical judgments, the nature of moral reasoning, the ethics of medical practitioner-patient relationships, confidentiality, death and dying, medical experimentation, animal research, abortion and euthanasia, genetic engineering, and the new reproductive technologies. 54 hours lecture.

PHI-32 - Introduction to Symbolic Logic 3 units
(Same as MAT-32)
UC, CSU
Prerequisite: None.
Limitation on enrollment: May not be taken if credit for MAT-32 has been granted.
Introduces the principles of deductive reasoning, including the practical application of modern symbolic techniques. 54 hours lecture.

PHI-33 - Introduction to Social and Political Philosophy 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
An introduction to issues in social and political philosophy. Discusses both the development of political philosophy in response to varying historical problems and the application of political philosophy to contemporary issues; topics studied include ancient Greek, social contract, communist and modern political philosophy. 54 hours lecture.

PHI-35 - Philosophy of Religion 3 units
(Same as HUM-35)
UC, CSU
Prerequisite: None.
Advisory: PHI-10 or 10H or 11.
An introduction to the examination of religious claims from a philosophical perspective. Emphasis will be placed upon examining the rational justification for various traditional faith claims, and upon examining the relationship between rationality and faith. The course presumes a basic knowledge of philosophical argumentation. 54 hours lecture.

PHOTOGRAPHY

PHO-20 - Introduction to Digital Still Photography 3 units
UC
Prerequisite: None.
Introduces students to electronic still photography and digital imagery. Students will learn how to create photography quality images without use of the traditional photographic wet lab. Students use state of the art computers, digital cameras, professional grade negative and flat bed scanners and a digital printer to produce photo-grade prints. Software utilized includes Adobe PhotoShop, Photoenhancer Ofoto and others. May be taken a total of four times. 27 hours lecture and 81 hours laboratory.

Also see JOURNALISM

PHYSICAL EDUCATION

It is recommended that students enroll in physical education activity courses or academic physical education courses (that satisfy the Self Development requirement of the Associate of Arts Degree) during the first two semesters of full-time enrollment until the two or three unit requirement is completed. For further information, students should read the Associate of Arts Degree requirements in this catalog.

UNIFORMS
Students are requested to wear attire appropriate to the activity as requested by the instructor.

LOCKERS
A lock and locker for which the student is responsible will be issued to each student. A $5.00 charge will be assessed for a lost lock.
ACADEMIC COURSES

PHP-4 - Nutrition 3 units
UC, CSU
Prerequisite: None.
The principles of modern nutrition and its application. The importance of a scientific knowledge of nutrition, specific food nutrients and nutritional controversies. A study of modern convenience foods and their impact on present day diets. 54 hours lecture.

PHP-10 - Introduction to Physical Education 3 units
UC, CSU
Prerequisite: None.
This is an orientation course for students interested in physical education. It studies the history of sport, analyzes scientific research as it pertains to physical fitness and sport, and provides information on education requirements and careers. 54 hours lecture.

PHP-16 - Introduction to Athletic Training 3 units
UC, CSU
Prerequisite: None.
This course will teach the basic concepts of athletic training with emphasis in the prevention and care of athletic injuries. Basic taping techniques will be presented and practiced. 45 hours lecture and 27 hours laboratory.

PHP-29 - Soccer Theory 3 units
UC*, CSU
Prerequisite: None.
This course includes the study of various aspects of coaching the sport of soccer. Students will learn rules, principles for training, team management, communication skills, how to recruit players and techniques for teaching individual skills, offensive and defensive play and team strategies. 54 hours lecture.

PHP-30 - First Aid and CPR 3 units
UC, CSU
Prerequisite: None.
This course involves the theory and detailed demonstration of first aid of the injured by the citizen responder. Students will learn how to assess a victim’s condition and incorporate proper treatment. Students who successfully pass all American Red Cross requirements will receive an American Red Cross Responding to Emergency Certificate. Students who successfully pass all American Heart Association requirements will receive a Healthcare Professional CPR Certificate. Fees for required certificates will be charged to the student and are not covered by BOGW. 54 hours lecture.

PHP-35 - Foundation for Fitness and Wellness 3 units
CSU
Prerequisite: None.
This course will provide students with the ability to make informed choices and to take responsibility for those choices in the areas of fitness, nutrition and stress management. Emphasis is on the application of health and physical fitness principles. Each student will develop a personalized plan for the overall maintenance of their own wellness. 45 hours lecture and 27 hours laboratory.

PHP-36 - Wellness: Lifestyle Choices 3 units
CSU
Prerequisite: None.
The course content focuses upon the dynamic and inter-related dimensions of wellness and how choices made by the individual may encourage an enhanced quality of life. The dimensions of wellness include the social, physical, emotional, occupational, intellectual, environmental, and spiritual. Potential student benefits include learning positive life skills through expanding self-awareness and the opportunity to enhance one’s personal, family and community wellness. 54 hours lecture.

PHP-38 - Stress Management 3 units
CSU
Prerequisite: None.
This course addresses the nature, physiology, and psychology of stress. Students will explore perceptions, attitudes, beliefs, and lifestyle factors that may be pre-cursors and contributors to distress. Students will also explore a variety of coping strategies and relaxation techniques. The lab portion of this class provides the opportunity for students to practice techniques and develop a personalized stress management program. 45 hours lecture and 27 hours laboratory.

ACTIVITY COURSES

Besides fulfilling the Self Development requirement, activity classes can be used as electives for the Associate of Arts Degree and the Associate of Science Degree.

PHP-A03 - Adaptive Physical Education for Students with a Physical Disability 1 unit
UC*, CSU
Prerequisite: None.
Limitation on enrollment: Medical approval and verification of a physical disability.
Provides physical education for students with a physical disability to promote the total growth including better self-awareness, physical development and fitness. This course facilitates the student’s participation in his/her environment. Subsequent enrollment in additional semesters will provide the student an opportunity for added skills and competency development within this activity area. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A15 - Bowling, Beginning 1 unit
UC*, CSU
Prerequisite: None.
This course is designed to develop the basic techniques of bowling and an understanding of rules, etiquette, and score-keeping. Practice drills focus on the development of an appropriate grip, the approach and ball delivery. Students have an opportunity to practice skills and develop an understanding of the rules, etiquette, and score-keeping by participating in an organized league which utilizes the handicap scoring system. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill and competency development within each activity area. Students may take PHP-A15, PHP-A16 and PHP-A17 a combined total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
PHP-A16 - Bowling, Intermediate 1 unit
UC*, CSU
Prerequisite: None.
Advisory: PHP-A10.
This course is designed to assist students in the continued improvement of basic bowling techniques and the development of knowledge and expertise specific to intermediate bowling skills. Emphasis will be placed upon the development of a hook, the ability to self-correct as related to common errors, and the introduction and practice of various systems of spare conversion. Students will also be introduced to the recommended adjustments associated with varying lane conditions. Opportunities for knowledge and skill development will be provided through prescribed drills, practice sessions, and participation in a class league which utilizes the handicap scoring system. Subsequent enrollment will provide the student an opportunity for further skill development and competency. Students may take PHP-A15, PHP-A16 and PHP-A17 a combined total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A20 - Golf, Beginning 1 unit
UC*, CSU
Prerequisite: None.
Designed to serve as an opportunity for the students to develop fundamental skills such as grip, stance, address and swing. Class competitive play and skill contests are conducted to further develop the students’ interest in the game. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill and competency development within each activity. Enrollment is limited to four times within the golf activity area. 54 hours laboratory.

PHP-A21 - Golf, Intermediate 1 unit
UC*, CSU
Prerequisite: None.
Advisory: PHP-A20.
This course is designed to serve as an opportunity for students to develop golf skills at the intermediate level. The mental approach to golf as well as intermediate drills and practice techniques will be employed to further enhance the students’ skill level. Subsequent enrollment in additional semesters will provide the student added skill and competency development within each activity area. Enrollment is limited to four times within the golf activity area. 54 hours laboratory.

PHP-A40 - Karate, Beginning 1 unit
UC*, CSU
Prerequisite: None.
This course in beginning karate will develop the basic skills needed for the art of unarmed self-defense. This includes the use of blocking, shifting, punching, striking, and kicking. Karate will also develop speed, grace of movement, self-confidence, poise, mental alertness, strength, endurance, and muscular control. Karate is a physical art and a sport that anyone, irrespective of size, age, or sex, can practice according to his or her own capabilities. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development within each activity area. Students may take PHP-A40 and PHP-A41 a combined total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A41 - Karate, Intermediate 1 unit
UC*, CSU
Prerequisite: None.
Advisory: PHP-A40.
This course in intermediate karate is designed for the student wishing to review basic self-defense skills and begin work on higher skills, develop intermediate level skills in unarmed self-defense, and learn basic skills in kumite (free fighting). Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development within each activity area. Students may take PHP-A40 and PHP-A41 a combined total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A46 - Hatha Yoga, Beginning 1 unit
UC*, CSU
Prerequisite: None.
This course offers beginning hatha yoga exercises to improve students’ physical and mental wellness. The yoga exercises will be taught to promote improvement in yoga breathing techniques, concentration, muscular flexibility, strength and endurance, balance and meditation techniques. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. Students may take PHP-A46 and PHP-A47 a combined total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A47 - Hatha Yoga, Intermediate 1 unit
UC*, CSU
Prerequisite: None.
Advisory: PHP-A46.
This course offers intermediate hatha yoga exercises to improve students’ physical and mental wellness. The yoga exercises will be taught to promote improvement in yoga breathing techniques, concentration, muscular flexibility, strength and endurance, balance and meditation techniques. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. Students may take PHP-A46 and PHP-A47 a combined total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A55 - Slow Pitch Softball 1 unit
UC*, CSU
Prerequisite: None.
Designed to give students the basic skills, rules and strategies for team play in the sport of slow pitch softball. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development within each activity area. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A63 - Ultimate Frisbee 1 unit
UC*, CSU
Prerequisite: None.
Provides instruction in the skills, techniques, strategy, and rules of Ultimate Frisbee. The class emphasizes throwing techniques, skill improvement, and strategic team play. Students will also be exposed to a variety of Ultimate Frisbee techniques, other freestyle techniques, and distance throwing techniques. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
PHP-A64 - Soccer 1 unit
UC*, CSU
Prerequisite: None.
This course is designed to introduce students to the rules, basic skills, and offensive/defensive strategy in soccer. Emphasis will be placed on improving individual skills and applying these skills to game situations. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A75 - Walking for Fitness 1 unit
UC*, CSU
Prerequisite: None.
This course will assist students in improving physical health and general well being. It is designed for men and women of all ages, with an emphasis on cardiovascular health, fitness, and maintenance of healthy weight. Walking programs will be established to improve cardio-respiratory endurance and encourage optimal body composition. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. This course may be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A77 - Jogging for Fitness 1 unit
UC*, CSU
Prerequisite: None.
This course is designed to introduce basic fitness concepts to improve each individual’s physical health and general well being. The course is geared to all ages and is concerned with aspects of cardiovascular health and weight control. Emphasis will be on building endurance and strength through stretching, muscle strengthening and jogging for conditioning. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A81 - Physical Fitness 1 unit
UC*, CSU
Prerequisite: None.
This course is designed to give the student an overview of the basic concepts that affect total fitness. Personalized exercise programs in cardiovascular endurance, muscular endurance and flexibility will be developed. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A83 - Kickboxing Aerobics 1 unit
UC*, CSU
Prerequisite: None.
This course is designed to introduce basic fitness concepts as well as basic movement skills and exercises. Students will develop strength, flexibility, endurance, movement memory, balance, coordination, and cardiovascular fitness. Subsequent enrollment in additional semesters will provide the student with further development in skill competency. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-A95 - Out-of-Season Varsity Sport Conditioning 1 unit
UC*, CSU
Prerequisite: None.
This course is designed to teach advanced conditioning principles for the design and implementation of our out-of-season training programs in preparation for varsity sport competition. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill competency development. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

VARSITY SPORTS
Students intending to participate in a varsity sport should contact the coach of that sport before enrolling. The varsity sports are:

PHP-V10 - Soccer, Varsity Men 2 units
UC*, CSU
Prerequisite: None.
Limitation on enrollment: Retention based on successful tryout. This course prepares the student athletes to practice and compete at the intercollegiate level in soccer. Athletes will demonstrate proficiency and knowledge of advanced principles of offensive and defensive team concepts. Student athletes will participate in a physical conditioning program designed to prepare them for intercollegiate competition in soccer. Repeating this course provides the student an opportunity for additional skill and competency development. May be taken a total of four times. 180 hours laboratory. (Letter Grade, or Pass/No Pass option.)

PHP-V25 - Soccer, Varsity, Women 2 units
UC*, CSU
Prerequisite: None.
Limitation on enrollment: Retention based on successful tryout. This course prepares the student athlete to practice and compete at the intercollegiate level in soccer. Athletes will demonstrate proficiency and knowledge of advanced principles of offensive and defensive team concepts. Student athletes will participate in a physical conditioning program designed to prepare them for intercollegiate competition in soccer. Repeating this course provides the student an opportunity for additional skill and competency development. May be taken a total of four times. 180 hours laboratory.

PHYSICAL SCIENCE

PHS-1 - Introduction to Physical Science 3 units
UC*, CSU
Prerequisite: None.
Fundamental concepts of earth, space and environmental science (geology, oceanography, meteorology, and astronomy) and principles of physics and chemistry especially as they relate to these fields. Emphasis is placed on the application of science in the understanding and solution of environmental problems. 54 hours lecture.
PHYSICS

PHY-2A - General Physics, I  4 units
UC*, CSU
Prerequisite: None.
Corequisite: Enrollment in MAT-1A.
Meets the requirements for students majoring in biological science, including pre-medical or pre-dental students. This course examines: properties of matter; study of mechanics, including Newton’s laws, energy, momentum and rotational motion; study of fluid mechanics; study of thermodynamics, including heat, temperature, kinetic theory of gases, and the laws of thermodynamics; study of oscillatory motion. 54 hours lecture and 54 hours laboratory.

PHY-2B - General Physics, II  4 units
UC*, CSU
Prerequisite: PHY-2A.
Meets the requirements for students majoring in biological science, including pre-medical and pre-dental students. This course examines: study of wave motion, including Doppler effect for sound waves, intensity of sound waves; study of electricity and magnetism, including electric field and potential, Gauss’ Law, current and DC circuits, capacitance and inductance, Faraday’s Law; study of light including electromagnetic waves, reflection, refraction and diffraction; study of modern physics, including special relativity, quantum, atomic and nuclear physics. 54 hours lecture and 54 hours laboratory.

Credit for this course can also be earned by achieving a score of 3 or better on Category B of the Advanced Placement Test.

PHY-4A - Mechanics  4 units
UC*, CSU
Prerequisite: None.
Corequisite: MAT-1A.
Examines elementary mechanics, vectors, motion, particle dynamics, work and energy, conservation of energy and momentum, rotation, oscillations, gravitation, and fluid dynamics. 54 hours lecture and 54 hours laboratory.

PHY-4B - Electricity and Magnetism  4 units
UC*, CSU
Prerequisite: PHY-4A.
Corequisite: MAT-1B.
Examines elementary electromagnetism, conductors and currents, electric and magnetic fields, electromagnetic induction, Maxwell’s equations, and waves and oscillations. 54 hours lecture and 54 hours laboratory.

PHY-4C - Heat, Light and Waves  4 units
UC*, CSU
Prerequisite: PHY-4A.
Corequisite: MAT-1B.
Examines temperature, heat transfer, thermal properties of matter, thermodynamics and heat-engine cycles, wave motion and acoustical phenomena, reflection, refraction, lenses, interference and diffraction. 54 hours lecture and 54 hours laboratory.

PHY-10 - Introductory General Physics  3 units
UC*, CSU
Prerequisite: MAT-52.
A liberal arts physics course covering mechanics, properties of matter, heat, sound, light, electricity and magnetism and nuclear physics. 54 hours lecture.

PHY-11 - Physics Lab  1 unit
UC, CSU
Prerequisite: None.
Corequisite: PHY-10.
An optional laboratory science course for the non-science major. Emphasis on laboratory techniques, student experimentation, and laboratory demonstrations. 54 hours laboratory.

PHYSIOLOGY AND ANATOMY
See ANATOMY AND PHYSIOLOGY

POLITICAL SCIENCE

POL-1 - American Politics  3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
The principles and critical issues of American politics, with emphasis on the national government. Course topics include: political parties and elections, interest groups, mass movements, public policy, media, judicial system, and California state and local government are included. Students may not receive credit for both POL-1 and POL-1H. 54 hours lecture.

POL-1H - Honors American Politics  3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Limitation on enrollment: Enrollment in the Honors program.
The principles, and critical issues of American politics, with emphasis on the national government. Course topics include: philosophic and ideological sources of political system and culture, political parties and elections, interest groups, mass movements, public policy, media, judicial system, and California state and local government. Students may not receive credit for both POL-1 and POL-1H. 54 hours lecture.

POL-2 - Comparative Politics  3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
A comparative study of selected European, Asian, African, Latin American and Middle Eastern political systems. Concerned with broadening and deepening the student’s understanding of the nature and variety of political systems. Course topics will include a study of institutions and issues of various countries. Students may not receive credit for both POL-2 and POL-2H. 54 hours lecture.

POL-4 - Introduction to World Politics  3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
A study of the theories, paradigms and issues of global politics. Special attention is given to the role of the United States in the international community, the role of international organizations and international political economy. Students may not receive credit for both POL-4 and POL-4H. 54 hours lecture.
POL-4H - Honors Introduction to World Politics 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Limitation on enrollment: Enrollment in the Honors program.
A study of the theories, paradigms and issues of global politics. Special attention is given to the role of the United States in the international community, the role of international organizations and international political economy. The honors course offers and enriched experience for accelerated students by means of limited class size, seminar format, student-generated and—led discussions and projects, a focus on primary texts in translation, and the applications of higher-level thinking and writing skills—analysis, synthesis and evaluation. Students may not receive credit for both POL-4 and POL-4H. 54 hours lecture.

POL-5 - The Law and Politics 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
The principles and problems of the constitution are examined, with emphasis on how the constitution impacts public policy. Also, the course looks at the constitutional considerations affecting civil rights and liberties. 54 hours lecture.

POL-7A - Current Political Issues 3 units
UC, CSU
Prerequisite: None. Sections may be taken in any sequence.
Advisory: Qualification for ENG-1A.
Current political issues is designed to provide students the opportunity to examine major national and global issues which are not fully covered in the regular department curriculum. Topics selected are defined as current critical issues facing our nation and globe and will vary with each course offering. Each issue will be covered in detail, as will potential solutions to each issue and the political bodies involved in attempting resolution. 54 hours lecture.

POL-11 - Political Theory 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
This course will examine the major contributions of political thinkers from Socrates to the present. Political concepts such as democracy, the rule of law, justice, natural rights, sovereignty, citizenship, power, the state, revolution, liberty, reason, materialism, toleration, and the place of religion in society and politics are traced from their origins, through their development and changing patterns, to show how they influence political thinking and institutions today. 54 hours lecture.

POL-13 - Introduction to American Foreign Policy 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
The goal of this course is to provide students with comprehensive and critical coverage of U.S. foreign policy since World War II. Through a coherent chronological narrative, the course traces the evolution of U.S. foreign policy from its assumption of world leadership during and after World War II to its present concerns with sprouting democracies, a militarized policy, global economic and political interdependence. 54 hours lecture.

POL-14 - Internship in Political Science 3 units
UC, CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
This course will examine the process of decision making in the public arena of local, state, and national politics. Policy development, public administration and the bureaucratic implementation of policy will be analyzed. The student will be assigned to work 90 hours in a political or public administrative state or local office as the internship component of this course. 27 hours lecture and 90 hours volunteer internship required.

PSYCHOLOGY

PSY-1 - General Psychology 3 units
UC, CSU
Prerequisite: None.
Historical and philosophical antecedents of contemporary psychology; the scientific study of behavior as systemized in learning, motivation, emotion, personality, intelligence, and thought. 54 hours lecture.

PSY-2 - Physiological Psychology 3 units
UC, CSU
Prerequisite: None.
The scientific study of the physiological determinants of behavior. Issues addressed include: basic nervous system structure and function, sensory and motor systems, emotion, motivation, learning and memory, sleep and dreaming and neurological and mental disorders. 54 hours lecture.

PSY-9 - Developmental Psychology 3 units
UC, CSU
Prerequisite: None.
Genetic and environmental determinants of life-span human development in the biosocial, cognitive and psychosocial domains. 54 hours lecture.

PSY-33 - Theories of Personality 3 units
UC, CSU
Prerequisite: None.
This course examines the basic concepts and principles of the prevailing theories of personality and evaluates the scientific merits of their assumptions and propositions. This course includes discussion of the application of theory to real-life situations and the significance of the theorist’s biographical data to the development of the theory. 54 hours lecture.

PSY-35 - Abnormal Psychology 3 units
UC, CSU
Prerequisite: None.
Survey of historical and contemporary approaches to diagnosing, understanding and treating major forms of psychological disorder including: anxieties, fears, obsessions, psychoses, sexual and personality disorders, disorders of childhood and adolescence. 54 hours lecture.
READING

REA-2 - Rapid Reading 2 units
CSU
Prerequisite: None.
Designed for readers with good vocabulary skills who are interested in increasing reading speed. A qualifying preparation placement level is recommended. Students practice utilizing a variety of rapid reading methods and comprehension-building techniques, including computer assisted instruction. May be taken a total of two times. 36 hours lecture. (Letter Grade, or Pass/No Pass option.)

REA-3 - Reading for Academic Success 3 units
CSU
Prerequisite: None.
Advisory: Qualification for ENG-1A.
Intended to provide students with a review and study of reading skills at the college level. Students will receive instruction in fundamental, academic and discipline-specific reading skills. Total of 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

REA-4 - Critical Reading as Critical Thinking 3 units
CSU
Prerequisite: None.
This course is intended for students to fully understand the relationship between critical reading and critical thinking. Emphasis will be placed on the development of reading skills in the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading. 54 hours lecture.

REA-81 - Reading, Level I 3.5 units
Prerequisite: None.
Intended for students in need of basic remediation. Instruction in basic reading skills, along with individually prescribed practice work in which a wide range of material will be utilized. Subsequent enrollment in an additional semester will provide the student an opportunity for additional skill and competency development within the subject matter. May be taken a total of two times. 54 hours lecture and 36 hours laboratory. (Non-degree credit course. Letter Grade, or Pass/No Pass option.)

REA-82 - Reading, Level II 3.5 units
Prerequisite: REA-81 or qualifying placement level.
Intended for students who experience significant difficulty in reading college-level materials. Instruction in reading skills at a less basic level than that required in REA-81, along with individually prescribed practice work, in which a wide range of materials will be utilized. Subsequent enrollment in an additional semester will provide the student an opportunity for additional skills and competency development within the subject matter. May be taken a total of two times. 54 hours lecture and 36 hours laboratory. (Non-degree credit course. Letter Grade, or Pass/No Pass option.)

REA-83 - Reading, Level III 3 units
Prerequisite: REA-82 or ESL-73 or qualifying placement level.
Intended for students who experience moderate difficulty in reading college-level materials. Instruction in reading skills at a more advanced level than those covered in REA-82. Subsequent enrollment in an additional semester will provide the student an opportunity for additional skills and competency development within the subject matter. May be taken a total of two times. 54 hours lecture. (Non-degree credit course. Letter Grade, or Pass/No Pass option.)

REA-86 - Reading Strategies for Textbooks 1 unit
Prerequisite: None.
This course is intended for students currently enrolled in a lecture class where the curriculum and instruction depends on extensive textbook readings. Students will receive instruction on using different reading comprehension strategies designed for better understanding and retention of textbook material. May be taken a total of three times. 18 hours lecture. (Pass/No Pass only.)

REAL ESTATE

RLE-80 - Real Estate Principles 3 units
CSU
Prerequisite: None.
The fundamental real estate course covering the basic laws and principles of California real estate, gives understanding, background, and terminology necessary for specialized courses. Assists those preparing for the real estate sales agent license examination. 54 hours lecture.

RLE-81 - Real Estate Practices 3 units
CSU
Prerequisite: None.
Covers basic laws and principles of California real estate, terminology and daily operations in a real estate brokerage. Includes listing, prospecting, advertising, financing, sales techniques, escrow and ethics. Applies toward state’s educational requirements for the brokers examination. 54 hours lecture.

RLE-82 - Legal Aspects of Real Estate 3 units
CSU
Prerequisite: None.
California real estate law, including rights incident to property ownership and management, agency, contracts, and application to real estate transfer, conveyance, probate proceedings, trust deeds, and foreclosure, as well as recent legislation governing real estate transactions. Applies toward educational requirement of brokers examination. 54 hours lecture.

RLE-83 - Real Estate Finance 3 units
CSU
Prerequisite: None.
Analysis of real estate financing, including lending policies and problems in financing transactions in residential, apartment, commercial, and special purpose properties. Methods of financing properties emphasized. 54 hours lecture.

RLE-84 - Real Estate Appraisal 3 units
CSU
Prerequisite: None.
Purposes of appraisals, the appraisal process, and the different approaches, methods, and techniques used to determine the value of various types of property. Emphasis will be on residential and single-unit properties. 54 hours lecture.
RLE-85 - Real Estate Economics 3 units
UC
Prerequisite: None.
Trends and factors affecting the value of real estate; the nature and classification of land economics; the development of property, construction and subdivision, economic values and real estate evaluation; real estate cycles and business fluctuations, residential market trends, real and special purpose property trends. 54 hours lecture.

RLE-86 - Escrow Procedures I 3 units
CSU
Prerequisite: None.
Methods and techniques of escrow procedure for various types of real estate transactions, including the legal/ethical responsibilities engaged in escrow work. 54 hours lecture.

RLE-200 - Real Estate Work Experience 1-2-3-4 units
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student’s occupational on-the-job training with related classroom instruction. Students enrolled in this occupational work experience course must be employed in a field related to the work experience subject area. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement. 18 hours lecture. Additionally, 60 hours of volunteer work or 75 hours of paid work is required for each unit.

SOCIOLOGY

SOC-1 - Introduction to Sociology 3 units
UC, CSU
Prerequisite: None.
An introduction to the basic concepts relating to the study of society. The course includes investigation into the foundations of sociology including its overall perspective, theoretical orientations, and research methodology; the foundations of social life including the components of culture, social interaction and the process of socialization, groups, organizations, and deviance; economic social inequality based upon class, race, sex, and age; social institutions; and dimensions of social change. 54 hours lecture.

SOC-2 - American Social Problems 3 units
UC, CSU
Prerequisite: None.
Identification and analysis of major social problems confronting 20th century America; emphasizing, among other topics, urban and rural transformations; family life; minorities; criminal and delinquent behavior. 54 hours lecture.

SOC-3 - Social Inequality in American Society 3 units
UC, CSU
Prerequisite: None.
This course introduces students to the extent of inequality in its various forms in American Society, the consequences of inequality for individual life chances and society as a whole, the theoretical explanations given for the existence of inequality, and to the persistence of inequality and poverty. 54 hours lecture.

SOC-10 - Race and Ethnic Relations 3 units
UC, CSU
Prerequisite: None.
An introduction to the relevant theories and operational definitions that ground the study of race and ethnic relations in the social sciences. Extensive treatment of prejudice, discrimination, and the concept of racism. The course brings into sharper focus the history and contemporary status of White-ethics, religious minorities, American Indians, Afro-Americans, Hispanic-Americans, Asian-Americans, Jewish-Americans, and women in the United States. Social institutions such as family, education, politics, and the economy receive special attention for each group. The similarities and differences in ethnic hostilities between the United States and other societies are closely examined. 54 hours lecture.

SOC-12 - Marriage and Family Relations 3 units
UC, CSU
Prerequisite: None.
Patterns in marriage and family relations focusing on both academic and practical considerations. Includes courtship, marriage, child-parent relations, intrafamily conflict, and sexual adjustment. 54 hours lecture.

SOC-15 - Women in American Society 3 units
UC, CSU
Prerequisite: None.
The role of American women emphasizing the social implications of the women’s movement and including the historical, political and economic roots of women’s problems. 54 hours lecture.

SOC-20 - Introduction to Criminology 3 units
UC, CSU
Prerequisite: None.
An introduction to the fundamentals of criminology. Including surveys of the theories of crime, statistical procedures and research methodology, types of crimes, criminal etiology, the origins and features of criminal law, the police, courts, and corrections. An analysis of the interrelations between social organization, the perceptions of social harm, and the dynamics of social control. 54 hours lecture.

SOC-50 - Introduction to Social Research Methods 3 units
UC, CSU
Prerequisite: None.
Designed to introduce the student to the nature of scientific inquiry and to the basic principles and procedures applied to the conduct of research in the social sciences. The course is organized around the generally accepted sequential steps in the research process; from the inception of a research idea to the research design for inquiry, to the gathering and analysis of data, to the final report of the findings. 54 hours lecture.

SPANISH

SPA-1 - Spanish 1 5 units
UC*, CSU
Prerequisite: None.
This course concentrates on developing basic skills in listening, reading, speaking and writing. Emphasis is placed on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Spanish at the beginning level. This course includes discussion of Hispanic culture and daily life. Students may not receive credit for both SPA-1 and SPA-1H. 90 hours lecture and 18 hours laboratory.
SPE-1 - Public Speaking 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Prepares students to compose (develop outlines and research) and present a minimum of four speeches, including informative and persuasive presentations in front of a live audience. Emphasis will be on organization, thesis development, informative, persuasive, and effective delivery. Students will deliver at least four oral presentations required. (Letter Grade, or Pass/No Pass option.)

SPE-2 - Persuasion in Rhetorical Perspective 3 units
UC, CSU
Prerequisite: SPE-1 or 1H.
Advisory: SPE-51 and/or qualification for ENG-1A.
Develops persuasive strategies from a rhetorical perspective with emphasis on the principles of ethos, pathos, and logos. Also incorporates practical application of these rhetorical theories in understanding and analyzing classical, post-renaissance, and contemporary public address. Focus is on effective delivery of verbal and nonverbal communication as well as effective listening. Students will deliver at least three oral presentations. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-3A - Argumentation and Debate 3 units
UC*, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Covers theoretical underpinnings of argumentation and debate including a systematic approach to the process of debate, theories of argumentation as related to topic analysis, research, case construction, rebuttals, cross-examination, utilization of sound reasoning, and the importance of ethical behavior in debate. Focus is on effective delivery of verbal and nonverbal communication as well as effective listening. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-4 - Debate 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Prepares students to compose (develop outlines and research) and present a minimum of four speeches, including informative and persuasive presentations in front of a live audience. Emphasis will be on organization, thesis development, informative, persuasive, and effective delivery. Students will deliver at least four oral presentations required. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-5 - Debate 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Prepares students to compose (develop outlines and research) and present a minimum of four speeches, including informative and persuasive presentations in front of a live audience. Emphasis will be on organization, thesis development, informative, persuasive, and effective delivery. Students will deliver at least four oral presentations required. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-6 - Debate 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Prepares students to compose (develop outlines and research) and present a minimum of four speeches, including informative and persuasive presentations in front of a live audience. Emphasis will be on organization, thesis development, informative, persuasive, and effective delivery. Students will deliver at least four oral presentations required. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-7 - Oral Interpretation of Literature 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Preparation and presentation of interpreting literature (prose, poetry and drama). Principles and techniques of interpreting the printed page are related to preparing and presenting an oral interpretation of literature for an audience. Provides opportunities for cultural enrichment, literary analysis, creative outlet, articulation and improved speaking ability. Oral presentations required. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
SPE-9 - Interpersonal Communication 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Analyzes the dynamics of the two-person communication process in relationships. Students study values, communication models, listening, verbal and nonverbal communication, perception, self-concept, self-disclosure, management of emotions, relationship theories and conflict resolution. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-9H - Honors Interpersonal Communication 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Limitation on enrollment: Enrollment in the Honors program.
Analyzes the dynamics of the two-person communication process in relationships. Students study values, communication models, listening, verbal and nonverbal communication, perception, self-concept, self-disclosure, management of emotions, relationship theories and conflict resolution. Honors course offers an enriched experience for accelerated students through limited class size; seminar format; focus on primary texts; and application of higher level critical thinking skills. Students may not receive credit for both SPE-9 and SPE-9H. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-11 - Storytelling 3 units
CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
A study of the history, theory, and practice of the oral art of storytelling. The historical and current practice of the oral tradition of both prose and poetry will be covered using a multicultural perspective. Students will research, prepare, and perform stories from a variety of genres and cultures. Oral presentations required. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

SPE-12 - Intercultural Communication 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
Traces the reciprocal relationship between culture and communication. As people from different culture groups interact, the markings of culture, personality and interpersonal perception have an impact on their interaction. The course reveals the relationship between those interaction patterns. This influence ranges widely, and includes definitions of culture, an understanding of intercultural theories, creation of a culture, cultural adaptation, intercultural effectiveness in relationships and ethno-linguistic identities. 54 hours lecture.

SPE-13 - Gender and Communication 3 units
UC, CSU
Prerequisite: None.
Advisory: SPE-51 and/or qualification for ENG-1A.
A study of theories that address communication styles including similarities and differences between masculine and feminine gender types. Integrates theories to heighten students’ awareness of the importance of gender as a communication variable. Theoretical approaches to the development of gender are discussed. Gender communication issues are addressed with an emphasis on listening, perception, verbal, nonverbal communication, and conflict management in interpersonal, small group and various other contexts. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
THE-29 - Musical Theater Appreciation 3 units
UC, CSU
Prerequisite: None.
A study of the history and literature of the genre of musicals from 19 century to present day. Emphasis will be placed on the stylistic distinctions of the musical and the contribution of individual composers, librettists, lyricists, choreographers, directors and designers to the genre of musical theatre. Students will study the genre’s social and cultural significance as a separate and distinctive art form. 54 hours lecture.

THE-30 - Voice and Movement for the Stage 2 units
UC, CSU
Prerequisite: None.
Theory, principles and techniques of voice and movement needed for the actor to perform on stage: including stage movement, alignment, voice production, breathing, diction, accents, flexibility, projection and voice care. 18 hours lecture and 54 hours laboratory.

THE-32 - Acting Fundamentals-Theater 3 units
Games and Exercises
UC, CSU
Prerequisite: None.
Foundation training for actors through theater games and improvisational exercises for developing expressive freedom, creativity, relaxation, sensory awareness and concentration. Development and preparation of the actor’s instrument: voice, speech, body and imagination. Beginning of relationship and motivation. 36 hours lecture and 54 hours laboratory.

THE-33 - Scene Acting: Creating a Role 3 units
UC, CSU
Prerequisite: THE-32.
Fundamentals of creating a role through beginning scene study and monologues with emphasis in modern realism. Building of character through text analysis and practical applications such as use of body, voice and imagination. Continued development of actor’s body through exercises. Advanced work in motivation, relationships and emotional discovery and release. 36 hours lecture and 54 hours laboratory.

THE-34 - Scene Study in Various Theatrical Styles 3 units
UC, CSU
Prerequisite: THE-32.
Advanced scene study with emphasis on a variety of theatrical styles, excluding classical verse. Development of the actor’s artistic sense and presentation with regard to text, environment, actions and choices. Public performance required. 36 hours lecture and 54 hours laboratory.

THE-35 - Classical Acting with Emphasis in Shakespearean Verse 3 units
UC, CSU
Prerequisite: THE-32.
Development of techniques for performing classical verse with an emphasis in Shakespearean texts. Special emphasis on actor’s physical instrument, voice, speech and body, to handle demands of elevated verse. Analysis and thematic aspects of Shakespeare and elevated verse, especially meter, rhythm, structure, imagery, antithesis, word games, patterns, stressing and inflections. Practical applications through scene and monologue work. May be taken a total of two times. 36 hours lecture and 54 hours laboratory.

THE-36 - Improvisational Acting 3 units
UC, CSU
Prerequisite: THE-32.
Advanced principles and techniques of improvisational acting designed to increase creativity, problem solving and performance skills. Students will develop the ability to work in short and long form, dramatic and comedic, pantomime skills, group work, spontaneity, offers, narrative, characterization and endowments. Public performance required. 36 hours lecture and 54 hours laboratory.

THE-37 - Auditioning for the Stage 1 unit
UC, CSU
Prerequisite: None.
Principles and techniques of the various performance methods and styles involved in auditioning for the stage encompassing a variety of theatrical genres. 9 hours lecture and 27 hours laboratory.

THE-38 - Acting for the Camera 3 units
UC, CSU
Prerequisite: None.
Advisory: THE-32.
Principles and techniques of specialized methods and styles involved in acting for the camera culminating in performance on film. This course encompasses the study and exercise in the special techniques of acting for the motion picture and television cameras. Emphasis will be placed on gaining an understanding of the various camera angles, shots, positions and actor behaviors that are unique to acting before a camera. Practical work in front of a camera is required. May be taken a total of four times. 45 hours lecture and 27 hours laboratory.

WORK EXPERIENCE

WKX-200 - Work Experience 1-2-3-4 units
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student’s occupational on-the-job training with related instruction in work-related skills, including occupational and educational resources, career planning, resume development and interview techniques. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement; 60 hours of volunteer work or 75 hours of paid work in the semester are required for each unit. WKX-200 is an enrolling course for General Work Experience and Occupational Work Experience courses. Students enrolling in WKX-200 are administratively moved to the appropriate general or occupational work experience course after the first class meeting. Determination of the appropriate work experience course is made by the instructor, with input from the student, based upon several factors, including the number of hours worked during the semester, occupational program requirements, and type of work in which the student is engaged. 18 hours lecture and 60 hours of volunteer work experience or 75 hours of paid work experience are required for each enrolled unit.
WKX-201 - General Work Experience  1-2-3 units
CSU*
Prerequisite: None.
Advisory: Students should have paid or voluntary employment.
This course is designed to coordinate the student's occupational on-the-job training with related instruction in work-related skills, including occupational and educational resources, career planning, resume development and interview techniques. Students may earn up to three (3) units each semester for two (2) semesters for a maximum of 6 units of work experience. No more than 20 hours per week may be applied toward the work requirement; 60 hours of volunteer work or 75 hours of paid work in the semester are required for each unit. 18 hours lecture and 60 hours of volunteer work experience or 75 hours of paid work experience are required for each enrolled unit.

ZOOLOGY
See BIOLOGY 2A, 2B

NON-CREDIT COURSES
Non-credit courses are one of several educational options offered by community colleges. They offer students access to a variety of low and no-cost courses that do not carry any unit value, but can help students in reaching personal and professional goals. They provide lifelong learning, career preparation opportunities, and skill remediation, development or proficiency. They can serve as an “educational gateway” for students who want to improve their earning power, literacy skills or access to higher education. Non-credit courses are approved by the district Curriculum Committee, the Board of Trustees and the state Chancellor’s Office.

ENG-885 - Writing Clinic  0 units
Prerequisite: None.
Intended for students who need concentrated attention in various areas of grammar, punctuation, and composition. Self-paced, open-entry/open-exit, with no traditional lecture-based component. Instead, it requires students to do the majority of their coursework independently. Each student follows a sequential series of modules based on his or her diagnosis. Students meet with their instructor in the Writing and Reading Center for the pre-and post-test and as needed for one-on-one instruction or small group study for the duration of the students’ enrollment in the course. May be taken a total of four times. 27 hours laboratory.

GUIDANCE
GUI-801 - Testing for Success CAHSEE Preparation  0 units
Prerequisite: None.
Course is intended to give students a review of study skills and time management strategies in preparation for the California High School Exit Examination (CAHSEE). This course may be taken multiple times. 10 hours lecture. There is no mandatory laboratory hour requirement.
Section VII

FACULTY
Each year, the Academic Senate and faculty of RCCD select an educator from their ranks to address the college community. This is one of the highest honors the faculty at RCCD can bestow on a colleague to recognize an individual’s outstanding teaching skills and contributions to the District and its students. The 50th Distinguished Faculty Lecturer is

MR. JOSEPH ECKSTEIN
ASSOCIATE PROFESSOR
GEOGRAPHY

Joe Eckstein received his Honours B.A. in geography from the University of Western Ontario, London, Canada in 1974 and a B.Ed. in 1976. He had the great opportunity of living and studying in downtown London, England and was the only student to achieve his M.Sc. in geography from the London School of Economics in 1975. For 13 years he taught geography and history at a high school 75 miles northwest of Toronto. On a sabbatical, he met his wife, Peggy, a Californian, on a bicycle trip to China in 1984. Together they taught at a high school in Hong Kong from 1989-1990. Eckstein was hired to teach full-time at Riverside Community College in 1992.

On his arrival at RCC, Eckstein taught geography at two campuses in one day. He happily taught a split schedule on two campuses per week. Having taught on all three campuses, his academic home eventually became Norco College. Also, he has served on accreditation, Senate, CTA board, and is the chair of the Math and Science department at Norco. He has been a faculty member for RCC’s Study Abroad in Oxford, England in 1997 and 2001 causing Tony Blair to win both elections. He will teach in the Study Abroad program in Florence, Italy fall 2010. He has participated as a student in RCC Study Abroad tours in Prague, Greece, Turkey, and in June 2010 in Morocco. Joe Eckstein was the 2010 RCCD Faculty Lecturer. His presentation was entitled, “The Things That Maps Don’t Tell Us”, and was presented on May 12, 2010 in the Salvatore G. Rotella Digital Library and Learning Center at Riverside City College.
Acknowledging that the quality of an instructional program is dependent largely upon the quality of the faculty, Riverside Community College District endeavors to maintain a teaching staff which is among the finest in California.

**NORCO COLLEGE FACULTY**

**ANDACHEI, KHALIL**  
Associate Professor, Sociology  
B.A., University of Tehran (Iran); M.A., Roosevelt University; M.A., University of California, Irvine; Ph.D., University of California, Irvine. At Riverside Community College District since 2002.

**BADER, MELISSA**  
Associate Professor, English  
B.A., University of Washington; M.A., California State Polytechnic University, Pomona. At Riverside Community College District since 2004.

**BECK, REX**  
Associate Professor, Business Administration  
B.S., United States Military Academy at West Point; M.B.A., California State University, San Bernardino. At Riverside Community College District since 2002.

**BOELMAN, PETER**  
Associate Professor, Economics  

**BROCKENBROUGH, CELIA**  
Associate Professor, Library Services  

**BROTHERTON, CATHERINE**  
Associate Professor, Computer Information Systems  
B.S., MS., California State Polytechnic University, Pomona. At Riverside Community College District since 1986.

**BURNETT, SARAH**  
Associate Professor, Early Childhood Education  
B.S. Econ; The University of Wales, Swansea; M.S., The Johns Hopkins University. At Riverside Community College District since 2005.

**CAMPO, PEGGY**  
Assistant Professor, Anatomy and Physiology  
B.S., Universidad Catolica de Cordoba; M.S., University of California, Riverside; M.A., Harvard University. At Riverside Community College District since 2008.

**CHACON, ROSINA (Zina)**  
Associate Professor, Counseling  
A.A., San Bernardino Valley College; B.A., California State University, San Bernardino; M.A., University of Redlands. Ed.D., University of Southern California. At Riverside Community College District since 2003.

**CHUNG, ELISA**  
Associate Professor, Mathematics  
A.A., Fullerton College; B.S., M.A., California State University, Fullerton. At Riverside Community College District since 1991.

**CLUFF, MICHAEL**  
Associate Professor, English  
B.A., M.A., University of California, Riverside. At Riverside Community College District since 1990.

**COMSTOCK, TAMI**  
Assistant Professor, English  
B.A., Western State College; M.A., University of Northern Colorado. At Riverside Community College District since 2009.

**CORDIER, GERALD**  
Assistant Professor, Drafting  
Coursework completed at California State University, Fullerton, and California State University, San Bernardino. At Riverside Community College District since 1988.

**COVERDALE, JOHN**  
Associate Professor, Computer Information Systems  
B.A., Occidental College; B.S., M.S., Azusa Pacific University. At Riverside Community College District since 1997.

**CRASNOW, SHARON L.**  
Professor, Philosophy  
B.A., Barnard College; M.A., Ph.D., University of Southern California. At Riverside Community College District since 1992.

**DAVIS, BRENDA**  
President, Norco College; Associate Professor, Nursing  
Diploma, Harlem Hospital Center School of Nursing, New York; B.S., M.Ed. and Ed.D., Teachers College, Columbia University, N.Y. At Riverside Community College District from 1975-77, and since 1980.

**DEGUZMAN, JOSEPH S.**  
Associate Professor, Mathematics  
B.S., Mapua Institute of Technology; M.S., M.L.Q. University, Manila, Philippines. At Riverside Community College District since 2001.

**DIECKMEYER, DIANE**  
Dean of Instruction, Associate Professor, Reading  
B.A., M.A., University of California, Riverside; Ed.D., University of Southern California. At Riverside Community College District since 1999.

**DI THOMAS, DEBORAH**  
Vice President, Student Services  
B.S., California Polytechnic University; M.A., Azusa Pacific University; Ed.D., Pepperdine. At Riverside Community College District since 1992.

**ECKSTEIN, JOSEPH G.**  
Associate Professor, Geography  

**ELIZALDE, ANDRES**  
Associate Professor, English  
B.A., California State University, San Bernardino; M.A., California State University, Los Angeles. At Riverside Community College District since 2005.

**FARRAR, CAROL ACOSTA**  
Professor, Psychology  
B.A., B.S., University of California, Irvine; Ph.D., University of California, Riverside. At Riverside Community College District since 1997.

**FLEMING, KEVIN**  
Associate Dean, Career and Technical Education  
B.A., Loyola Marymount University; M.A., Ohio State University; M.B.A., University of Redlands. At Riverside Community College District since 2010.
FLICK, AREND

Professor, English
A.B., University of Chicago; Ph.D., University of California, Berkeley. At Riverside Community College District since 1991.

FRANCO, NICHOLAS

Assistant Professor, Counseling
A.A., Fullerton College; B.A., California State University, Fullerton; M.S., University of La Verne. At Riverside Community College District since 2009.

FREITAS, SIOBHAN

Associate Professor, Chemistry
B.S., University of Massachusetts; M.S., Ph.D., University of California, Los Angeles. At Riverside Community College District since 2000.

FREWING, JANET

Associate Professor, Mathematics
B.A., California State University, Fullerton; M.A., University of California, Santa Barbara. At Riverside Community College District since 2001.

FRIEDRICH FINNERN, TERESA

Associate Professor, Biology
B.S., Hope College; M.S., Ph.D., University of Michigan. At Riverside Community College District since 2006.

GARCIA, CARLOS

Associate Professor, Drafting
B.S., California State University, Fresno; B.S., University of Southern California; M.S., California State University, Northridge. At Riverside Community College District since 1992.

GRAY, ALEXIS

Associate Professor, Anthropology
B.A., California State University, Los Angeles; M.A., California State University, Fullerton; Ph.D., University of California, Riverside. At Riverside Community College District since 2006.

GREEN, MONICA

Dean, Student Services
B.A., University of California, Riverside; M.A., California State University, San Bernardino; Ed.D., Pepperdine University. At Riverside Community College District since 2001.

GREENE, RA VELLE LYN

Assistant Professor, Political Science
B.A., M.A., California State University, Northridge; Ph.D., University of Southern California. At Riverside Community College District since 2009.

GUTIERREZ, MONICA

Associate Professor, Biology
B.S., University of California, Irvine; Ph.D., University of California, Los Angeles. At Riverside Community College District since 2004.

HITCHCOCK, DOMINIQUE

Associate Professor, Spanish/ French
A.A., B.A., M.A., Ph.D., Université de Paris Sorbonne. At Riverside Community College District since 1996.

HOWDYSHELL, LINDA

Interim Vice President, Academic Affairs
B.S., M.A., Central Michigan University; Ph.D., Michigan State University. At Riverside Community College District since 2010.

HUMBLE, DINA

Associate Professor, Music
B.M., University of Minnesota; M.M.E., University of Northern Colorado. At Riverside Community College District since 1999.

JOHNSON, BRIAN D.

Associate Professor, Mathematics
B.A., M.A., California State University, Fullerton. At Riverside Community College District since 2001.

KYRIAKOS, STEPHANY

Associate Professor, History
B.A. (summa cum laude), University of Colorado; M.P., Ph.D., Yale University. At Riverside Community College District since 1999.

LEWIS, MARK E.

Associate Professor, Communication Studies
B.A., M.A., California State University, Fullerton. At Riverside Community College District since 2001.

TOMPSETT-MAKIN, DEBORAH J.

Associate Professor, Political Science
B.S., University of Pittsburgh; M.A., Old Dominion University; Ph.D., University of California, Riverside. At Riverside Community College District since 2000.

MCALLISTER, LISA

Director, Health Services
A.S., Broward/Grayson Community Colleges; B.S.N., M.S.N., University of Phoenix. At Riverside Community College District since 2009.

MILLS, DAVID

Associate Professor, English
A.A., Riverside Community College; B.A., University of California, Los Angeles; M.A., Indiana University. At Riverside Community College District since 2001.

IMITER, CAROL

Associate Professor, English
A.A., Riverside Community College; B.A., M.A., California State University, San Bernardino. At Riverside Community College District since 1991.

MOORE, BARBARA

Associate Professor, Biology
B.S., M.S., Ph.D., University of California, Riverside. At Riverside Community College District since 2006.

MORRISON, JAMES

Associate Professor, Biology
B.S. (cum laude), M.S., Kansas State University; M.P.H., Loma Linda University. At Riverside Community College District since 1971.

NANCE, DAMON

Associate Dean, Library/Learning Resources
B.A., California State University, San Bernardino; M.L.I.S., San Jose State University. At Riverside Community College District since 2007.

NELSON, LISA

Associate Professor, English
B.A., B.F.A., University of South Maine; M.A., University of California, Riverside; Ph.D., Columbia University. At Riverside Community College District since 2005.
NERY, ANNEBELLE  Dean, Student Success  B.A., M.A., California State University Los Angeles. At Riverside Community College District since 2008.

OLAIERTS, ANA-MARIE  Associate Professor, Communication Studies  B.A., M.A., California State University, Fullerton. At Riverside Community College District since 2006.

PARK, STEPHEN  Assistant Professor, Mathematics  B.S., University of Southern California; M.A., California State University, Fullerton. At Riverside Community College District since 2009.

PAVLIS, BONNIE  Associate Professor, Humanities  B.A.(summa cum laude), University of California, Los Angeles; M.A., Ph.D., University of California, Berkeley; Certificate in TESL, University of California, Riverside. At Riverside Community College District since 1990.

PAYÁN, DAVID A.  Associate Professor, Counseling  A.A., East Los Angeles College; B.A., University of California, Riverside; M.A., San Diego State University. At Riverside Community College District since 1991.

PERRY, JUDY  Associate Professor, Computer Information Systems  B.S., Oklahoma State University; M.S., University of Southern California. At Riverside Community College District since 1994.

PRIOR, ROBERT  Associate Professor, Mathematics  B.A., University of California, San Diego; M.A., California State University, Fullerton. At Riverside Community College District since 1990.

REY, JASON  Associate Professor, Mathematics  B.A., M.A., University of California, Riverside. At Riverside Community College District since 2004.

RIES, RICHARD  Associate Professor, Mathematics  B.A., B.S., M.S., University of California, Riverside. At Riverside Community College District since 2005.

ROBLES, ANDY  Associate Professor, Mathematics  B.S., M.S., California Polytechnic State University, Pomona. At Riverside Community College District since 1999.

SALCEDO, FERNANDO  Professor, Spanish  B.S., M.A., Pacific Union College; Ph.D., University of California, Riverside. At Riverside Community College District since 1990.

SHIRINIAN, MARGARITA  Associate Professor, English as a Second Language  B.A., Moscow State Pedagogical University; M.A., California State University, Northridge. At Riverside Community College District since 2005.

SKIBA, KARIN  Professor, Art  B.A., Pitzer College; M.F.A., Claremont Graduate School. At Riverside Community College District since 1990.

SLONIGER, MITZI A.  Associate Professor, Reading  B.A., University of California, Irvine; M.A., California State University, Fullerton. At Riverside Community College District since 2000.

SMITH, DEBORAH  Associate Professor, Mathematics  B.A., California State University, San Bernardino; M.S., University of California, Riverside. At Riverside Community College District since 1998.

STERNBURG, CHARLES  Associate Professor, Anatomy and Physiology  B.S., M.S., California State University, Northridge; Ph.D., University of California, Irvine. At Riverside Community College District since 1992.

STEVENS, WALTER  Associate Professor, Theater Arts  B.A., M.F.A., University of California, Irvine. At Riverside Community College District since 1996.

SYNODINOS, DIMITRIOS  Associate Professor, Coordinator, Student Activities  A.A., Glendale Community College; B.A., M.A., California State University, Northridge. At Riverside Community College District since 2005.

THOMAS, JAMES W.  Associate Professor, Construction Technology  A.A., AS., Chaffey College; A.A., San Bernardino Valley College; B.A., Prescott College; M.P.A., California State University, San Bernardino; D.P.A., University of La Verne. At Riverside Community College District since 2000.

TRAN, PHU  Associate Professor, Physics  B.S., California Polytechnic University, Pomona; M.S., University of California, Riverside. At Riverside Community College District since 2005.

TSCHETTER, SHERYL L.  Associate Professor, English  B.A., University of California, Riverside; M.A., California State University, San Bernardino; Ed.D., University of Southern California. At Riverside Community College District since 2000.

TYLER, STANLEY  Assistant Professor, Chemistry  B.A., University of California, Irvine; M.S., University of California, Los Angeles; M.A., Ph.D., University of California, Irvine. At Riverside Community College College District since 2009.

UESUGI, KOJI  Associate Dean, Special Funded Programs  B.A., University of California, Davis; M.A., Claremont Graduate University; M.A. California State University, Fullerton; Ed.D., university of California, Los Angeles. At Riverside Community College District since 2009.
VAN HULLE, PAUL  
Associate Professor, 
Manufacturing Technology 
A.S., Riverside Community College; B.A., California State University, Los Angeles; M.A., California State University, San Bernardino. At Riverside Community College District since 2005.

VEGA, DANIEL  
Associate Professor, 
Counseling 
B.A., California State University, San Marcos; M.A., San Diego State University. At Riverside Community College District since 2006.

WAGNER, THOMAS  
Associate Professor, 
Real Estate/Business Administration 
B.A., B.S., Bucknell University; J.D., Temple University Law School; LLM., University of Virginia School of Law. At Riverside Community College District since 1992.

WALES, EDWARD  
Associate Professor, 
Drafting 
B.A., California State University, Long Beach. At Riverside Community College District since 1985.

WALLSTROM, TIMOTHY  
Associate Professor, 
Physical Education 
B.S., M.S., California State University, Fullerton; Ph.D., The Ohio State University. At Riverside Community College District since 2006.

WIMER, BEVERLY  
Associate Professor, 
Physical Education 
B.S., Northwest Missouri State University; M.S., University of Arizona. At Riverside Community College District since 1989.

WORSHAM, PATRICIA A.  
Associate Professor, 
Business Administration 
B.A., University of California, Santa Barbara; M.B.A., California Polytechnic University, Pomona. At Riverside Community College District since 2001.

ZWART, GAIL A.  
Associate Professor, 
Business Administration 
B.S., California Polytechnic University, Pomona; M.P.A., California State University, San Bernardino; M.B.A., Baker College; D.P.A., University of La Verne. At Riverside Community College District since 2003.

DISTRICT ACADEMIC ADMINISTRATION

BAJAJ, PANKAJ  
Dean 
Institutional Reporting 
B.E., MIT; M.I.S., University of Missouri, St. Louis. At Riverside Community College District since 2001.

BRADY, GLEN  
Director, Distance Education 
B.S., University of Utah; M.S., San Diego State University. At Riverside Community College District since 2000.

BUYSSE, JAMES  
Vice Chancellor, 
Administration and Finance 

GRAY, GREGORY W.  
Chancellor 
B.S., Indiana University of Pennsylvania; M.Ed., University of Pittsburgh; Ed.D., Pennsylvania State University. At Riverside Community College District since 2009.

JACKSON, OLA M.  
Associate Dean/Director, 
Service Learning 
B.S., M.A., University of Redlands. At Riverside Community College District since 2000.

KANE, MELISSA  
Vice Chancellor, 
Diversity and Human Resources 
B.A., University of Missouri; M.A.A., University of Memphis. At Riverside Community College District since 2005.

KAUFFMAN, KRISTINA  
Associate Vice Chancellor, 
Institutional Effectiveness 
Associate Professor, Political Science 
B.A., Whittier College; M.A., Claremont Graduate School. At Riverside Community College District since 1979.

KEELER, RICHARD  
Director, 
Grant and Contract Services 
B.A., University of La Verne; B.A., M.A., University of California, Berkeley. At Riverside Community College District since 2000.

MAGHROORI, RAY  
Vice Chancellor, 
Educational Services 
B.A., San Jose State College; M.A., San Jose State University; Ph.D., University of California, Riverside. At Riverside Community College District since 2001.

MARTINEZ, DANIEL  
Associate Dean, 
Institutional Research 
B.S., Loma Linda University; M.A., California State University, San Bernardino; Ph.D., Claremont Graduate University. At Riverside Community College District since 2000.

THOMAS, SYLVIA A.  
Associate Vice Chancellor, 
Educational Services 
Associate Professor, Reading 
B.A., University of California, Los Angeles; M.A., Pepperdine University. At Riverside Community College District since 1988.

TILLQUIST, JOHN  
Dean, 
Economic Development 
B.A., University of Colorado, Boulder; M.S., Ph.D., University of California, Irvine. At Riverside Community College District since 2005.

TORRES, DAVID  
Dean, 
Institutional Research 
B.A., M.A., California State University, Fullerton. At Riverside Community College District since 1993.
FACULTY EMERITI

Michael Amrich, Professor Emeritus, Chemistry
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Jo Ann Bailey, Professor Emerita, Library Services
Theodore Banks, Professor Emeritus, Physical Education
James Baylor, Professor Emeritus, Business Administration
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Cynthia Marquez, Professor Emerita, Philosophy and Religion
Jean Marsh, Professor Emerita, Cosmetology
W. Paul Matthews, Professor Emeritus, Engineering
John M. Matulich, Deputy Superintendent and
  Vice President Emeritus, Administrative Services
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RonMcPherson, Professor Emeritus, Computer Information Systems
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V. Eva Molnar, Professor Emerita, Business Administration
Michael Montano, Professor Emeritus, Mathematics
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Gloria Jean Morgan, Professor Emerita, Cosmetology
Donald Myers, Professor Emeritus, Biology
Harold Nemer, Professor Emeritus, Mathematics/Astronomy
Louis N. Papac, Professor Emeritus, Cosmetology
May R. Paquette, Professor Emerita, Office Administration
John Partida, Professor Emeritus, Mathematics
Pamela Patey, Professor Emerita, Office Administration
Patricia Peters, Professor Emerita, Physical Education
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Joan Pleasants, Professor Emerita, Chemistry
Richard Ramirez, Vice President Emeritus, Student Services
Natalie Ringlund, Professor Emerita, Physical Education
Cheryl Roberts, Professor Emerita, Early Childhood Studies
Nancy Rose, Professor Emerita, Library Science
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Salvatore Rotella, Chancellor Emeritus
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June Saunders, Professor Emerita, Nursing
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Robert Schermerhorn, Professor Emeritus, Physical Education and Athletics
Richard Schneider, Professor Emeritus, Psychology
Joan Semonella, Professor Emerita, Speech Communication
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Kenneth Shabell, Professor Emeritus, Mathematics
Selby Sharp, Professor Emeritus, Chemistry, Engineering and Mathematics
Terrance Shaw, Professor Emeritus, Anatomy and Physiology
Roger Sliva, Professor Emeritus, Automotive Body Technology
Katie Smith, Professor Emerita, Reading
Robert Southwick, Professor Emeritus, Geology
Dina Stallings, Professor Emerita, English and Speech
Dorothy Steck, Professor Emerita, Nursing
Letha Strain, Professor Emerita, Office Administration
Margaret Thompson, Professor Emerita, Home Economics
John Thornton, Professor Emeritus, Reading
Irmy Tilton, Director Emerita, Cosmetology
Melchior Tomaselli, Professor Emeritus, Cosmetology Department
Tony Turner, Professor Emeritus, Physical Education
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Joseph von Helf, Professor Emeritus, Anthropology

Charles Walker, Professor Emeritus, English/Speech Communication
Dorothy (Chari) Wallace, Professor Emerita, Business Administration
Roger Warren, Professor Emeritus, Cosmetology
LeRoy Watters, Professor Emeritus, Psychology
David Waxman, Professor Emeritus, Physical Education
Diana Webster, Professor Emerita, Business Administration
Auston White, Professor Emeritus, Administration of Justice
Gerald Williams, Professor Emeritus, Electronics
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Pearl Wolfsen, Professor Emerita, College Nurse
Cecilia Wong, Executive Dean Emerita, Technology/Learning Resources
Geraldine Woods, Professor Emerita, Anthropology
Gordon R. Woolley, Jr., Assistant Superintendent Emeritus and Business Manager
Cornelia Wylldestar, Professor Emerita, Reading
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Riverside Community College District

Name of School

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Address

June 2010

Date

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Fall Semester Schedule . . . . . . . . . . . . . . . . . . . . . . . . . . July
Winter Intersession Schedule . . . . . . . . . . . . . . . . . . November
Spring Semester Schedule . . . . . . . . . . . . . . . . . . . . . . . . . December
Summer Semester Schedule . . . . . . . . . . . . . . . . . . . . . . . April
Community Report . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Published quarterly
Faculty Survival Guide . . . . . . . . . . . . . . . . . . . . . . . . . . . Published annually
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For information about college publications, please contact:

Strategic Communications and Relations
Riverside Community College District
1533 Spruce Street
Riverside, California 92507
(951) 222-8857

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