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www.cerritos.edu**

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Cerritos College

GENERAL CATALOG AND ANNOUNCEMENT OF COURSES ACADEMIC YEAR 2008-2009

**CERRITOS COLLEGE
11110 ALONDRA BOULEVARD
NORWALK, CALIFORNIA 90650
(562) 860-2451**

WWW.CERRITOS.EDU

**CERRITOS COLLEGE
A PUBLIC COMMUNITY COLLEGE
ESTABLISHED 1955**

Serving the communities of Artesia, Bellflower, Cerritos, Downey, Hawaiian Gardens, La Mirada, Norwalk and portions of Bell Gardens, Lakewood, Long Beach, Santa Fe Springs and South Gate.

ACCREDITED BY:

Accrediting Commission for Community and Junior Colleges of the
Western Association of Schools and Colleges
Mendocino Avenue, Santa Rosa, CA 95403
(707) 569-9177

APPROVED BY:

California Community College Board of Governors
United States Citizenship and Immigration Services under the
Department of Homeland Security
State Department of Education for Veterans Benefits
United States Department of Education

A MEMBER OF:

Academic Senate for California Community Colleges
Association of Community College Trustees
California Community College Trustees
Cerritos Area Trustees and Administrators Association
College Association for Public Events and Services
Community College League of California
School Employers Association
Southern California Consortium for Community College Television
Western Alliance of Arts Administrators



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OPEN COURSES

It is the policy of the Cerritos Community College District that, unless specifically exempted by statute, every course, course section or class, the 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, commencing with Section 51006.

All announcements herein are subject to revision. Changes may be made subsequent to the date of publication.

2008-2009 ACADEMIC CALENDAR*

FALL SEMESTER 2008

Instruction Begins August 18, 2008
Final Examinations..... December 13-19, 2008
Fall Semester Ends December 19, 2008

SPRING SEMESTER 2009

Instruction Begins January 12, 2009
Final Examinations..... May 16-22, 2009
Spring Semester Ends May 22, 2009
Commencement May 16, 2009

HOLIDAYS (The College will be closed)

Independence Day July 4, 2008
Labor Day..... September 1, 2008
Veterans Day Observance November 11, 2008
Thanksgiving Holiday November 27-30, 2008
Winter Holiday December 24, 2008 – January 1, 2009
Dr. Martin Luther King, Jr.'s Birthday Observance January 19, 2009
Abraham Lincoln's Birthday Observance February 13, 2009
George Washington's Birthday Observance February 16, 2009
Good Friday April 10, 2009
Memorial Day May 25, 2009

RECESS

Semester Break December 22, 2008-January 9, 2009
Spring Recess..... April 6-12, 2009

**This calendar is subject to change. The Schedule of Classes contains specific dates, times, procedures, and appointment information.*



ANNUAL SECURITY REPORT

Cerritos College publishes an Annual Security Report in accordance with the Cleary Act. This report includes statistics for the previous five years concerning reported crimes that occurred on-campus; in certain off-campus buildings or property owned or controlled by Cerritos College; and on public property within, or immediately adjacent to and accessible from, the campus. This report also includes institutional policies concerning campus security, such as policies concerning sexual assault, and other matters. You can obtain a copy of this report by contacting the Campus Police Department in person or at (562) 860-2451, extension 3202. This report is also available on the Internet at www.cerritos.edu/police.

WHOM TO CONTACT

Telephone: (562) 860-2451

GENERAL OFFICES.....EXT

President/Superintendent.....	2204
Academic Affairs.....	2227
Accounts Payable/Receivable.....	2261
Admissions and Records.....	2211
Bookstore.....	2462
Business Services (Information).....	2241
Community, Industry, Technology Education.....	2482
Adult Ed/Diversity Programs.....	2491
Citizenship Education.....	5098
Community Education.....	2521
Economic Development.....	2511
Emeritus Education.....	2493
Community Relations.....	2798
Counseling and Guidance.....	2231
Development.....	2191
Facilities.....	2300
Fiscal Services.....	2261
Human Resources.....	2284
Information Technology (Computer Services).....	2158
Information Technology and Development.....	2215
Information Technology Help Desk.....	2166
Instructional Media Services.....	2438
Library.....	2430
Multi-Media Production.....	2439
Payroll.....	2272/2273/2274
Publications.....	2289
Public Affairs.....	2285
Purchasing.....	2243
Research.....	2193
Student Services.....	2236

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Business Education.....	2715
Counseling.....	2231
Fine Arts/Communications.....	2600
Health Occupations.....	3201
HPE/Athletics.....	2859
Humanities/Social Sciences.....	2752
Liberal Arts.....	2858
Library & Learning Resource Center.....	2430
Science/Engineering/Mathematics.....	2660
Technology.....	2900
Technology Training and Distance Education.....	2797

AREAS OF INTEREST.....EXT

Academic Probation.....	2231
Academic Support Center.....	2407
Administration of Justice.....	2777
Art Gallery.....	2612
Athletic Department.....	2864
Athletic Training Center.....	2882
Fitness Lab.....	2883
Auto Collision and Repair.....	2939
Auto Maintenance/Repair.....	2930
Box Office (Burnight Center).....	(562) 467-5058
CalWORKs.....	2593
Career Center.....	2359/2365
Career Services Center.....	2356
Child Development Center.....	2583
College Activity Calendar (Civic Center).....	2532
Communication Center/Mailroom.....	2200
Computer Assisted Instruction Lab (CAI).....	2185
Cosmetology Department.....	2950
Culinary Arts.....	2456

AREAS OF INTEREST.....EXT

Disabled Student Programs and Services.....	2334
Central Intake (Information).....	2333
Resource Center.....	2336
Instructional Support Center.....	2346
Speech, Language and Hearing.....	2351
Hi-Tech Center.....	2349
Distance Education.....	2837
Engineering Design Technology (CAD Lab).....	2906
Drops and Adds.....	2211
Electronics.....	2918
EMERGENCY.....	911
EOPS Office.....	2398
Fees (Students).....	2101
Financial Aid.....	2397
Foster & Kinship Care Education.....	2578/2539
Foundation.....	2526
Independent Study Center.....	2442
Innovation Center.....	2975
International Students.....	2232
International Student Counselor.....	2233
International Student Office.....	2133/2156
Coordinator.....	2151
Job Information Hotline.....	(562) 467-5042
Job Placement (Students).....	2366
Job Training (WIA).....	2490
Journalism.....	2617
Language Center/Language Lab.....	2854
Lost and Found.....	3202
Machine Tool Technology (MTT).....	2925
Math Learning Center.....	2659
Mental Health Worker Program.....	2763
Music Department.....	2629
Parking/Ride Share.....	2326
Photography Lab.....	2620
Physical Education Department.....	2859
Plastics and Composites (PMT).....	2927
Police Department.....	3202
Radio Station, WPMD 1700AM.....	2626
Re-entry Resource Center.....	2362
Refunds (Students).....	2108
Reading Center.....	2856
Scholars Honors Program.....	2771/2728
School Relations.....	2129
Speech Department.....	2844
Sports Information.....	2896
Staff Development.....	2796
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Clubs and Organizations.....	2473
Judicial Affairs.....	2471
Student Activities Center.....	2473
Student Body President.....	2477
Student Body Vice President.....	2478
Student Government.....	2475
Student I.D. Center.....	2480
Student Health and Wellness Center.....	2321
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Testing Assessment.....	2364
Theatre Arts Department.....	2638
Transfer Center.....	2154
Tutoring/Learning Assistance Program.....	2404
Veterans Affairs.....	2120
Weight Training Room.....	2885
Welding.....	2948
Woodworking Manufacturing.....	2926
Writing Center.....	2855

BOARD OF TRUSTEES

President..... Mr. Bob Arthur
 Vice President Mr. Bob Epple
 Secretary..... Dr. Bob Hughlett
 Member Ms. Carmen Avalos
 Member Dr. Tina Cho
 Member Dr. Ted Edmiston
 Member Mr. Tom Jackson
 Student Member..... Mr. Jason Macias

ADMINISTRATION

Acting President/Superintendent..... Mr. William C. Farmer, Jr.
 Vice President of Academic Affairs/
 Assistant Superintendent
 Interim Vice President of Business Services/
 Assistant Superintendent Dr. James Albanese
 Vice President of Student Services/
 Assistant Superintendent Dr. Stephen B. Johnson
 Dean of Academic Affairs Mr. M.L. Bettino
 Interim Dean of the Library and Learning
 Resource Center Mr. John J. McGinnis
 Executive Dean of Community, Industry and
 Technology Education..... Mr. Nick Kremer
 Executive Dean of Information Technology and
 Development.....
 Executive Director of Foundation Mr. Steven Richardson
 Administrative Dean of Innovation &
 Academic Support.....
 Instructional Dean of Business Education..... Ms. Rachel Mason
 Instructional Dean/Health Occupations..... Ms. Jenine Nolan
 Instructional Dean/Humanities and
 Social Sciences Ms. Francine DeFrance
 Instructional Dean/Fine Arts/Communications... Dr. Connie Mayfield
 Instructional Dean/Liberal Arts..... Dr. Linda Rose
 Instructional Dean/HPE/Athletics..... Dr. Daniel Smith
 Instructional Dean/Science, Engineering and
 Mathematics..... Dr. Carolyn Chambers
 Instructional Dean/Technology Dr. Randy W. Peebles
 Director of Foster/
 Kinship Education Programs Ms. Lori Switanowski
 Director of Research and Planning Dr. Nathan Durdella

COMMUNITY EDUCATION

Director of Community Education Ms. Patricia Robbins Smith
 Director of Adult Education/Diversity Programs . Ms. Graciela Vasquez
 Director of Economic Development
 Director of Pathway Programs Ms. Maggie Cordero

FACILITIES SERVICES

Director of Physical Plant Mr. Robert Riffle
 Facilities Manager..... Mr. Thomas Richey
 Operations Manager..... Mr. Arcadio Avila

FISCAL SERVICES

Director of Fiscal Services..... Mrs. Lola Rizkallah
 Director of Purchasing..... Ms. Jenney Ho
 Accounting Manager Mr. Shawn Jones
 Budget Manager Ms. Ramona Payne
 Interim Payroll Manager Ms. Deanna Hart

HUMAN RESOURCES

Acting Director of Human Resources Mr. Dan O'Rourke
 Assistant Director of Human Resources.... Ms. Adriana Flores-Church
 Manager of Employment Services/
 Faculty & Staff Diversity Officer..... Ms. Cynthia Convey

INFORMATION TECHNOLOGY

Director of Computer Services..... Ms. Lee Krichmar
 Manager Information Technology..... Mr. Patrick O'Donnell

PUBLIC AFFAIRS

Director of Public and Governmental Relations Mr. Mark Wallace
 Web Administrator..... Mr. Taylor Bowman

STUDENT SERVICES

Dean of Admissions, Records and Services Ms. Stephanie Murguia
 Dean of Counseling Services Ms. Renée DeLong Chomiak
 Director of Career and Assessment Services Ms. Theresa Lopez
 Chief of Campus Police Mr. Richard Bukowiecki
 Dean of Disabled Student Programs and Services ... Dr. Lucinda Aborn
 Acting Dean of Student Support Services Ms. Kim Westby
 Coordinator of Student Health Services Ms. Nancy Montgomery
 Coordinator of International Student Services Ms. Danita Kurtz
 Coordinator of Judicial Affairs Mr. Gary Cain
 Coordinator of Student Activities..... Mr. Dean Ackland
 Director of Student Activities Ms. Holly Bogdanovich
 Coordinator of CalWORKs Services Ms. Norma Rodriguez

FACULTY SENATE

Faculty Senate President Dr. Bryan Reece

CERRITOS COLLEGE FACULTY FEDERATION – AFT

CCFF-AFT President Dr. Ted Stolze

CALIFORNIA SCHOOL EMPLOYEES ASSOCIATION

CSEA President Ms. Lynn Laughon

HISTORY

Cerritos College was established on June 10, 1955, when citizens of the Bellflower, Norwalk, Artesia, Carmenita, and Bloomfield elementary districts voted four-to-one in favor of forming a junior college district. On September 27, 1955, a ballot measure calling for a six-million-dollar bond issue to build the junior college passed, again by a four-to-one margin. Title to the proposed college site was acquired on December 5, 1956, and the college board turned its attention to securing favorable zoning so that construction could begin.

The credit for the birth of Cerritos College lies chiefly with Dr. Ralph Burnight, first president of the institution. Superintendent of the Excelsior Union High School District for 27 years before the college was born, Burnight had seen the need for the extension of educational opportunities offered at his high school and fought the state board of education for the establishment of a college in 1953, when the state board indicated it was doubtful that the district could attract a minimum enrollment of 400 students.

Dr. Burnight, however, was convinced that the area would continue to grow, and three years later the board of trustees—Leslie Nottingham, Walter Van Alstine, Dale Donnell, Al Sommer and Arthur Kulzer—authorized the college to offer instruction. On September 11, 1956, in classrooms rented from the Excelsior High School District, 197 students enrolled in classes and made the college a reality. That first semester, ten certified teachers offered 15 subjects, with Dr. Burnight at the helm. Beginning with the 1957-58 school year, the college operated out of Artesia High School, awaiting the completion of the new campus.

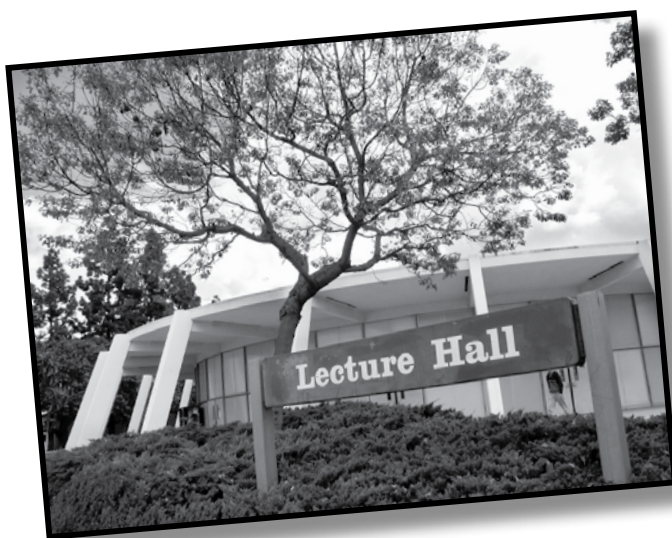
By the end of 1959, eight buildings (Field House, 3-25-58; Business Education, Lecture Hall, Science, Shower and Locker, 10-6-59; Liberal Arts, Technology, Electronics, 9-15-59) had been completed on campus, and funds were made available to provide the remaining facilities to accommodate a student body of 3,500 students.

By 1961 the campus was beginning to look like a college with the completion of four more buildings (Library and Gymnasium, 7-1-61; Metal Trades Shop Building, 7-17-61; Student Center, 3-8-60) and an enrollment of 4,000 students. The campus included 95 acres in 1964, and its 15 permanent buildings brought the value of the college to 16 million dollars; it now served a district with an assessed valuation of 271 million dollars.

Effective July 1, 1965, the district included the ABC Unified School District, the Bellflower Unified School District, the Downey Unified School District and the Norwalk-La Mirada Unified School District. District population was 400,000 and the assessed valuation had jumped to more than 500 million dollars. This would be the year that, beyond the bravest expectations of everyone connected with Cerritos College, enrollment would exceed 10,000 students.

The College acquired the "South 40" acres by 1966, enlarging the campus to 135 acres. The purchase proved to be an excellent investment by the board; land values in the college's district have since skyrocketed. The property today supports the Health Sciences Building, the largest parking lot on campus, the Auto Technology Building and the Community Education Center. The campus grew to 18 buildings by the 1968-69 school year, with a student enrollment of more than 11,000. The district, too, was growing and now included more than half a million people and an assessed valuation of 543 million dollars. The 18 buildings were complemented by a weight-lifting facility in 1971 and a student activities and bookstore complex in 1974.

With the campus thus complete for the time being, the administration and board of trustees turned to building the excellence of the academic programs, which had a strong foundation. Innovation in satellite courses, televised instruction, open entry and exit classes, and the move into audio-visual instruction marked the coming decade.



In 1972, the student population reached 17,000. The next year, 18,000 students attended classes, and the assessed valuation of the district had grown to more than 800 million dollars. The early 1970's were marked by spiraling inflation and tighter money, yet the College financed a new, modern bookstore (3-19-74), the Health Sciences Building (2-1-78) and the Auto Technology Building (9-1-78) to cope with the growing demands of students.

The bicentennial year in 1976 was a special time for Cerritos, as well as for millions of other Americans. Twenty years earlier, the 135-acre campus had been in its infancy, and educational visionaries had predicted that by 1975 more than 15,000 students would be attending classes in the many buildings depicted only on the architect's drawing boards. That modest forecast failed to foresee an even greater need in the community by 1975, when nearly 23,000 students enrolled in courses. In 1970-71, the predicted 15,000 had already been exceeded and growing pains brought expansion to the campus, which continues to grow to meet the demands of the surrounding communities.

By its twenty-fifth anniversary in 1980, Cerritos College had educated nearly 250,000 students since it first opened its doors at Excelsior High School. Course offerings had expanded, a satellite campus program had been implemented, and the faculty and staff had grown as the community needs increased. Cerritos College received its first ever Federal Title III Grant in 1986. The grant was in the amount of \$500,000 renewable for five years, totaling 2.5 million dollars.

In the mid 1990's, the college underwent five major renovations. In 1994, the Wilford Michael Library and Learning Resource Center (LRC) underwent another major renovation and expansion. The library expanded from 22,000 square feet to over 40,000 square feet. The old card catalog was replaced with an automated online system as a result of a major financial gift by the Associated Students of Cerritos College (ASCC). A modern teleconference center and learning assistance lab were added to the east wing of the Learning Resource Center.

The student center was renovated in 1995, funded by a three-way partnership between the ASCC, the college district and the state. Unchanged since its doors first opened, the student center was completely remodeled from the main floor to the adjacent culinary arts food service area. The renovation also included a four-restaurant food court with both indoor and outdoor casual dining for students.

In fall of 1998, Cerritos College opened the doors to the "One-Stop" Student Services Center. The new center houses a full spectrum of student resources including admissions and records, academic counseling, financial aid, the Scholars' Honors Program, veteran's affairs, EOPS (Extended Opportunities Programs and Services) and university transfer assistance. Each department is equipped with high-speed computers, designed to provide immediate access to the college's network.

In addition, the college's Career Services and Job Placement Centers have been moved within a short distance of the "One Stop" Student Services Center, making it the central hub of all Student Services and enrollment activities.

Also in the fall of 1998, the second phase of the Learning Resource Center opened, featuring a computer lab with more than 500 high-speed personal computers and 699 data ports. The dual-level computer labs provide students with access to the latest software, high-speed Internet and tutorial programs. In addition, there are dedicated labs for reading, math, English and foreign languages. This renovation of the LRC was part of a \$12 million investment in a technology infrastructure that also included the "wiring" of the entire campus and the placement of a networked PC on the desk of each employee. As a result, Cerritos College became "the most technologically advanced community college in the state" for teaching and learning.

In 1999, the ASCC underwrote the development of Falcon Square,

formerly a cement quad situated at the heart of the campus. Falcon Square is a wonderful area for students to relax or study in front of a split face block waterfall with concrete seat caps and slate covering. As part of the renovation, a 300-seat outdoor amphitheater was built in front of the College's music building.

Cerritos College takes pride in the quality of their outstanding faculty. In 1995, Economics Professor Dianne Keenan was selected as the "Community College Professor of the Year" by the National Carnegie Foundation for the Advancement of Teaching. In 1999, Mathematics Professor Susan Parsons was recognized as the nation's "Outstanding Community College Faculty Member of the Year" by the Association of Community College Trustees (ACCT).

Cerritos College is highly diverse. Across the nation, it is the fourth largest Hispanic-serving community college. Furthermore, it is home to more than 300 international students representing 34 countries. With the turn of the millennium, expansion began to take on a new face at Cerritos College. Instead of adding onto the campus as in the past, Cerritos College began to develop global partnerships with the aid of technology. This became extremely beneficial to education in the aftermath of September 11, 2001, when pursuing cross-cultural educational opportunities became more challenging.

In late 1999, a partnership began between Cerritos College and the University of Wisconsin-Stout (UW-Stout). The two colleges began to hold joint class sessions in real time with the use of a TV screen and the Internet. Not only did this allow for Cerritos College students to exchange ideas with students in another part of the country, but it also allowed Cerritos' ethnically diverse student body to exchange points of view on United States history with the predominately Caucasian population at UW-Stout.

In 2003, the concept of the virtual classroom once again expanded, and Cerritos College entered into a similar partnership with International Pacific College (IPC) in New Zealand. For the first time ever at Cerritos College, two hemispheres were connected in real time and students participated in multi-national approaches to world history. Both the partnership with UW-Stout and IPC also allowed for a handful of Cerritos students to visit their partner campuses and experience "hands on" what they had been experiencing via technology.

In 2002, the ground work was set for Cerritos College to launch into the world of tribal technology with the American Indian community. In 2003, the college began offering online courses offering custom training for American tribal governments. Cerritos College was awarded a \$50,000 Verizon Foundation Grant for the pilot phase of their program, and its first workshop to promote the program was attended by over 15 tribes from California, Arizona, Oklahoma, Idaho and Nevada.

Currently, three online courses are being offered to tribal governments. Now, not only is Cerritos College serving the communities of Artesia, Bellflower, Cerritos, Downey, Hawaiian Gardens, Lakewood, La Mirada and Norwalk, but it is also serving locations in Wisconsin, New Zealand, Bolivia and American Indian community.

With technology on the rise, Cerritos College is also raising the bar on global partnerships and is making a direct impact on globalization in education by forging ahead into the previously untread waters of international education right here at home.

Pursuant to its service in the community, the board of trustees adopted a revised mission statement for the college in January 2005: *The Cerritos College mission is to serve the community by building futures through learning.*

In 2005, Cerritos College celebrated its golden anniversary through the special events and 50th Anniversary Scholarships honoring the college's 50 years of tradition, honor and values.

VISION

Driven by the pursuit of unparalleled student success, Cerritos College will provide access to innovative learning opportunities that promote the power of learning.



MISSION

The Cerritos College Mission is to serve the community by building futures through learning.

PHILOSOPHY AND OBJECTIVES

Cerritos College is a community-oriented institution that embraces diversity, innovation, and active learning. We strive for high academic and ethical standards, as well as academic freedom. We believe in the worth and dignity of our learners, regardless of age, gender, ethnicity, or disability. In educating, we consider the learner's cognitive growth, and seek to foster emotional and physical well-being. The College prepares individuals for full participation in a complex democratic society, as citizens and leaders, for the fulfillment of personal goals and the future of the region. We believe that the purpose of education is to enlighten and enhance the quality of life.





ACADEMIC INFORMATION

Admission to the College

Admission to Cerritos College is open to any high school graduate or equivalent or persons eighteen years of age or older who shows evidence of being able to benefit from instruction. Students who are 18 years of age without a high school diploma must meet the College's ability to benefit criteria, which may be satisfied by a passing score on the numerical, reading, and/or writing exam. Students entering any of the public community colleges of California are subject to the residence requirements as determined by the State of California. A student is eligible to attend Cerritos College whose legal residence is within the state of California. Residents of any other state or foreign country may be subject to non-resident tuition.

The legal residence of any unmarried student under 18 years of age is considered to be that of the parent or guardian. The student should be prepared to present proof of residence.

Cerritos College does not discriminate against any person in employment or college participation because of race, color, religion, sexual orientation, sex, disability or age.

Further inquiries may be directed to the Office of Admissions and Records at (562) 860-2451, Ext. 2211, or the Cerritos College website at <http://www.cerritos.edu/student-services/admissions/>.

APPLICATION

All students requesting admission to Cerritos College must file an application for admission in the Admissions and Records Office (Early submission of admission applications is recommended). It is the responsibility of applicants to submit honest and true information; any deliberate falsification of information on the application or residence verification may be grounds for dismissal from the College.

Upon receipt of admission application, Admissions and Records will issue enrollment appointments for use on MyCerritos and Falcon Phone. Additionally, a student identification number will be issued to applicants. A student identification number is necessary to complete the matriculation process: assessment testing, counseling appointment, and enrollment.

TRANSCRIPTS

It may be necessary to submit transcripts from previous schools, colleges and universities for the establishment of prerequisite eligibility. Transcripts verifying units from other institutions may be used to complete CSU General Education requirements, IGETC requirements, Certificates of Achievement and Associate of Arts degrees.

APPLICATION AND ENROLLMENT OF SPECIAL ADMIT MINORS

Special Admit Minors are students enrolled in grades K-12 without high school diplomas, who can benefit from "advanced scholastic or career/technical work."

HIGH SCHOOL JUNIORS AND SENIORS (COLLEGE BRIDGE PROGRAM)

1. High school principal or designee must recommend and verify with consent and signature on the Special Admit Minor Form student would benefit from college instruction.
2. Parent/guardian must approve student's participation with consent and signature on the Special Admit Minor Form. Signature of parent/guardian also acknowledges that the student will conform to all College policies and procedures.

Academic Eligibility

- Students wishing to enroll in degree appropriate courses must have a cumulative high school grade point average of 2.0 or better shown on their most recent school transcript.
- For all courses attempted, students must complete the appropriate College assessment process and meet the stated prerequisite and/or co-requisite for the desired course.
- Students with a disability will be referred to Disabled Student Programs and Services for assessment, verification, and recommendations. For more information, please call (562) 860-2451, Ext. 2335.

Limitations on Enrollment

- A high school junior or senior student may be permitted to enroll in up to 8 units. Exceptions may be made, subject to consideration and approval by the Dean of Admissions, Records and Services (A, R & S).
- Students may not enroll in pre-collegiate courses (1-99) or physical education courses.
- Students may not enroll in a College course to alleviate a high school deficiency;
- Students who have previously enrolled and who have dropped their courses and/or have not made satisfactory progress will not be allowed to continue in the College Bridge Program.
- Students will not receive priority enrollment status and will be charged all applicable fees, with the exception of the California Community College in-state per unit enrollment fee.

ELEMENTARY AND SECONDARY STUDENTS THROUGH THE 10TH GRADE (SPECIAL ADMIT PROGRAM)

1. High school principal or designee must recommend and verify with consent and signature on the Special Admit Minor Form student would benefit from college instruction.
2. Parent/guardian must approve student's participation with consent and signature on the Special Admit Minor Form. Signature of parent/guardian also acknowledges that the student will conform to all College policies and procedures.

Cerritos College will admit highly gifted elementary students and secondary students through the 10th grade level for enrollment to the College if they are eligible to participate based on the criteria below:

Academic Eligibility

- Students must have a cumulative school grade point average of 2.5, or better, as reflected on the most recent school transcript.
- For all courses attempted, the students must complete the appropriate College assessment process and meet the stated prerequisite and/or co-requisite for the desired course.
- Students with a disability will be referred to Disabled Student Programs and Services for assessment, verification, and recommendations. For more information, please call (562) 860-2451, Ext. 2335.

Limitations on Enrollment

Students will be allowed to enroll in up to 4 units each term; enrollment in courses is based on space availability; and College instructor signature required prior to enrollment, and

- may not enroll in pre-collegiate courses (1-99) or physical education courses.
- may not enroll in a College course to alleviate a high school deficiency.
- if previously enrolled and dropped courses and/or have not made satisfactory progress, will not be allowed to continue in the Special Admit Program.
- Will not receive priority enrollment status and will be charged all applicable fees, except California Community College in-state per unit enrollment fees.

SUMMER ENROLLMENT OF K-12 STUDENTS

In addition to the above, minor students wishing to attend summer session must meet the additional criteria:

- The student demonstrates adequate preparation in the discipline to be studied.
- Pre-collegiate courses in English and mathematics may be taken if the student has exhausted all opportunities to enroll in an equivalent course at their school of attendance.

TO ATTEND CERRITOS COLLEGE AS A COLLEGE BRIDGE OR SPECIAL ADMIT STUDENT, PLEASE FOLLOW STEPS BELOW:

1. Complete the Special Admit Minor Form (check box for College Bridge or Special Admit) and the Cerritos College Admission Application.
2. Review class(es) of choice, complete Assessment Test(s) and pre-requisites.
3. Special Admit Students (K-10) must obtain Dean of A, R & S signature prior to enrollment.

It is recommended that College Bridge students (11-12 graders) meet with a Cerritos College academic counselor and participate in New Student Orientation.

For more information, please call (562) 860-2451, Ext. 2211.

ADMISSION OF INTERNATIONAL STUDENTS

The International Student Center welcomes F-1 international students to attend Cerritos College. The Center provides international students assistance with admissions, counseling, immigration advisement, cultural adjustment and educational support while they pursue their academic goals. We assist international students in their relations with the United States Citizenship and Immigration Services (USCIS) under the Department of Homeland Security and other U.S. and foreign governmental agencies while they maintain proper immigration status at Cerritos College. Mandatory medical insurance is required for all F-1 students attending Cerritos College. Visit our website at www.cerritos.edu/isc or call us at (562) 860-2451, Ext. 2133, for further information or for an international student application package.

DOCUMENTATION REQUIRED:

- Application
- Fee of \$40 for new students (fee of \$25 for readmit students)
- Statement of Support (notarized)
- Bank Certification (verification on bank letterhead signed by

a bank official showing at least \$22,000 USD available to the student or equivalent.)

- TB exam results
- Transcripts (proof of high school graduation)
- TOEFL (minimum score of 450+ paper and pencil; 133+ computerized; 45+ on internet based test), S.T.E.P. or equivalent
- Cerritos College Placement Test (CPT)
- Copy of Passport, Visa, and I-94
- Copy of ALL I-20's
- Transfer Authorization (if applicable)
- Proof of Medical Insurance Coverage (available in the International Student Center)

Costs: Approximate fees and accommodations for one year: (Subject to change)

• Application fee	\$40
• Tuition and enrollment fee* (\$210.00 per unit)	7,000
• Books and supplies	1,600
• Student Health fees	28
• Student Activity fees	20
• Health Insurance (mandatory)	740
• Living expenses (approx.)	11,840
• Parking permit (optional if you have a vehicle)	40
• Approx. total for the year:	\$21,308
Approx. tuition fees per semester based on 12 units:	\$2,800

***Fees are subject to legislative or other authorized changes without prior notice.**

SEVIS Fee (Form I-901): Once a new initial I-20 is issued, a Form I-901 along with a payment of \$100 SEVIS fee must be completed before applying for or a re-validation of the F-1 Visa status. For information on paying the SEVIS fee, go to www.FMjfee.com.

For further information contact:

Cerritos College
International Student Center
11110 Alondra Blvd.
Norwalk, CA 90650-6298 U.S.A.
E-mail: dkurtz@cerritos.edu
www.cerritos.edu/isc
Phone: (562) 860-2451, Ext. 2133
Fax: (562) 467-5086

Expenses

The cost of textbooks, supplies, and equipment will depend upon the number or types of classes taken. Textbooks and supplies are sold in the college bookstore. Additional fees as noted below must be paid at time of registration:

STUDENT FEES

***Fees are subject to legislative or other authorized changes without prior notice.**

1. Enrollment fees for the community college student are \$20 per unit. FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE DUE TO STATE LEGISLATION.
2. Students who are non-residents of California will also be subject to a non-resident tuition fee of \$181 per unit. The international student fee is \$181 per unit plus \$9 per unit capital outlay fee, PAYABLE AT THE TIME OF ENROLLMENT. Active military personnel and their dependents are exempt for one year from this out-of-state tuition charge. Non-resident

students who have been admitted to a class or classes without payment of the fee because of falsification of information submitted by or for them, shall be subject to dismissal from college.

3. Student Health Fee is \$14.00 per semester, \$11.00 for Summer Session. Students who rely on prayer for healing and can supply the college with documentation from their spiritual leader are exempt.
4. Student Activity Fee is \$10.00 per semester, \$4.00 for Summer Session.
5. Parking fees provide security and maintenance of parking lots. On-campus parking for automobiles is \$20.00 per semester and \$10.00 for Summer Session for students. Mopeds and motorcycles may use designated areas at no charge.

All fees must be paid within 5 days. Failure to do so will result in a delinquent debt to the institution and a restrictive hold to your student account (transcripts, graduation and future enrollments will be stopped). If you drop a class and have not paid the fees, you are still responsible for the debt on your account.

REQUIRED INSTRUCTIONAL AND OTHER MATERIALS FEES

Students may be required to purchase instructional and other materials required for a credit or noncredit course. Such materials shall be of continuing value to a student outside of the classroom setting and shall not be solely or exclusively available from the District. These fees are not covered by the Board of Governors Grant (BOGG) Waiver. (Title 5 Cal. Admin. Code Sec. 59400)

Any questions with respect to the interpretation of this regulation shall be in writing and addressed to the College's Vice President of Academic Affairs.

REFUND POLICIES AND PROCEDURES

It is the student's responsibility to apply for a refund. A student is eligible for a refund after classes have been officially dropped by the appropriate deadline for the session. A student is eligible for a refund if:

- a. classes are dropped by the required deadline;
- b. the drop/withdrawal is the result of action taken by the district to cancel or reschedule a class;
- c. the student is dropped for failure to meet a prerequisite(s) or corequisite(s); and/or,
- d. the student is active or reserve U.S. military personnel who withdraw due to military orders. A copy of the military orders is required.

The above listed eligible students may file a petition with the district requesting refund of their registration fee(s). A refund will not be processed if academic credit has been awarded for the class. Refunds will be mailed after your application is filed in the Admissions and Records office. The refund will be issued in the form of a check and will be mailed. The check will be made out in the student's name. A correct address is very important to receive your refund in a timely manner. To an officially withdrawn student, the following refund guidelines apply:

1. **Enrollment Fee, Non-Resident Tuition, and International Student Tuition** - Fall and Spring Semester, Summer Session and Short-Term Classes - A student will be fully refunded if classes are dropped within the drop dates published in the Schedule of Classes. There are no exceptions to the published drop dates.

2. **Student Health Fee** - A student will be fully refunded if all classes are dropped within the drop dates published in the Schedule of Classes. There are no exceptions to the published drop dates.
3. **Student Activity Fee and Parking Fees** - A student will be fully refunded if all classes are dropped within the drop dates published in the Schedule of Classes. The Student Activity ID Card and parking sticker must be surrendered at the time the student applies for the refund. However, if the student paid for but did not receive their ID sticker or parking permit, the student must pick them up before applying for the refund. There are no exceptions to this requirement.

Refunds are made pursuant to Title 5, Section 58501 or 58501.1, for program changes made during the first two weeks of instruction for a primary term-length course (18 weeks) or by the ten percent point of the length of a short-term course (15 weeks, 9 weeks, 6 weeks, etc.).

Example: 15 weeks class x 5 working days 75 x 10% 7.5. The result is rounded to allow 8 days to drop a class and be eligible for a refund.

ONE YEAR LIMIT ON REFUNDS - Classes must be dropped before filing for a refund. Students seeking refunds must meet the requirements listed above to be eligible. Students must have dropped the class(es) and met the appropriate deadlines before filing for a refund. If these conditions have been met, students have one year from the beginning of the semester in which fees were paid to apply for their refund. Beyond the one year limit, students will no longer be eligible.

BAD CHECK REGULATIONS

A \$10.00 fee will be charged for all returned and stop payment checks. All fees are subject to change without notice in accordance with any action taken by the Board of Trustees. Under Assembly Bill 1226, any person who writes a check on or after January 1, 1984, which is dishonored for lack of funds is civilly liable, and under the law, is liable for three times the amount of the check, plus the face value of the check.

FAILURE TO PAY COLLEGE FINANCIAL OBLIGATIONS

Failure by a student to pay a proper financial obligation due to the college or district may result in the withholding of grades, transcripts, diplomas, or registration privileges or any combination thereof. The item or items being withheld shall be released when the student pays the financial obligation. (Education Code Section 72237)

Incidental

Students are expected to furnish all textbooks, supplies, and uniforms as needed for instruction. The materials may be purchased through the student store which is operated by the Associated Students. In laboratory courses, students are charged actual cost of items lost or broken. Fines are assessed in the library for lost or overdue books.



Matriculation

Matriculation is a process designed to help students in planning, choosing, and achieving educational goals. The process brings the college and a student into an agreement for the purpose of realizing the student's educational goal using the college's established programs, policies, and requirements. The agreement acknowledges responsibilities of both the college and the student to attain those objectives. The main purpose of matriculation is student success.

Listed below are the basic components of the matriculation partnership shared between the college and the student.

The college agrees to provide:

- An admissions application process.
- An orientation to the College's programs and services.
- An assessment of the student's study skills, English language proficiency, computational skills, aptitudes, goals, learning skills, career aspirations, academic performance, and need for special services.
- Counseling and advisement to develop an educational plan.
- Follow-up evaluation of each student's progress in achieving an educational goal.

The student agrees to:

- Express at least a broad educational intent upon admission.
- Declare an educational goal before or during the term after which the student completes 15 units.
- Attend class.
- Work diligently to complete course assignments.
- Demonstrate an effort to attain an educational goal.
- All new students are required to participate in the matriculation partnership activities. Students who have completed an associate degree or higher at an accredited post-secondary institution are exempt from the partnership. However, exempt students may choose to participate in any portion of the matriculation process.
- Alternate arrangements are available for students with physical, communication or learning disabilities, or who are on financial aid and are determined as EOPS eligible students. Contact the Counseling Center for details. Outlined below are guidelines designed to help you complete the matriculation process.
- Failure to comply with matriculation regulations, declaring an educational goal and developing an educational plan may result in the termination of matriculation services to the student.

For additional information, visit the matriculation website at www.cerritos.edu/counseling

ADMISSIONS

Complete and submit the Cerritos College admissions application to the Admissions and Records Office, located in the Administration Building or at www.cerritos.edu. Online applications may be submitted at www.cerritos.edu by selecting "MyCerritos" and then "Student Application – Online". Transcripts from other institutions will be required to prove prerequisite eligibility which is strictly enforced at enrollment.

ORIENTATION

After completing assessment testing, sign up for an orientation workshop at the appointment desk in the Counseling Office or make an appointment by calling (562) 860-2451, Ext. 2231. There are both day and evening orientation workshops.

Day workshops include: campus information, preparation for registration, and a campus tour.

The evening workshop is designed for adults returning to school. It includes campus information and preparation for registration.

Students are encouraged to receive assessment PRIOR to attending an orientation workshop.

Orientation and Educational Planning classes are available throughout the semester. Online orientation is available on the college website at www.cerritos.edu/counseling.

EXEMPTIONS: Re-admit and transfer students.

ASSESSMENT/PLACEMENT

The Assessment Testing Center is located in the Administration Building next to the Career Services Center.

"ASSESSMENT/PLACEMENT" means the process of gathering information about an individual student to facilitate his or her success. At Cerritos College, assessment includes, but is not limited to, the collection of information regarding student's study skills, English language proficiency, computational skills, high school and/or college transcript review, evidence of AA degree or higher from an accredited institution, learning skills, academic performance, and need for special services. In addition, career assessment is the opportunity to explore career aspirations, goals, skills, interests, aptitudes and values.

DO I NEED TO TAKE AN ASSESSMENT/PLACEMENT TEST?

If you plan to enroll in a math, English, ESL (English as a Second Language), or reading class or if you plan to earn an AA degree, it is strongly recommended that you take assessment/placement tests prior to enrollment.

Please note: *The exceptions listed are assessment options for clearance or placement. To meet the required reading, math, and English proficiencies necessary to qualify for the Associate in Arts Degree, check your catalog or ask a counselor.*

ASSESSMENT/PLACEMENT TESTING SCHEDULE

Copies are available at the Admissions and Records Office, Counseling Office, Career Services Center, and the college web site at www.cerritos.edu/career-services; or call (562) 860-2451, Ext. 2355, for dates and times.

ASSESSMENT/PLACEMENT TEST EXEMPTIONS

Students who already possess an AA degree or higher are not required to take assessment/placement tests, but will be required to verify the degree by presenting official documents to the Admissions and Records Office at least one week prior to enrollment.

INDIVIDUAL ASSESSMENT EXCEPTIONS FOR COURSE PLACEMENT

English

If you have completed English 100 (formerly English 1) or an equivalent three or four unit college-level composition course with a "C" grade or higher at an accredited college, you are exempt from the English Assessment/Placement. Please submit official proof (grade reports or transcripts) to a counselor prior to enrollment.

Basic Math

If you have completed Algebra 1 or higher with a “B” grade or higher at a high school or an accredited college, you are exempt from the Basic Math Assessment. Please submit official proof (grade reports or transcripts) to a counselor prior to enrollment.

Advanced Math

Students who achieve MATH 60 (formerly MATH 30) clearance on the Basic Math Readiness Test may take one of the appropriate Advanced Math Tests to determine their math level.

Students may be placed in advanced math courses based on a “B” grade or higher in recently completed high school or college algebra courses. It is strongly recommended that these math courses have been completed within the past three years. Proof of high school or college grades is required.

Advanced Placement Courses

Students who participate in advanced placement courses at their high schools and score 3, 4, or 5 on the College Board Advanced Placement Examination will be granted units toward the AA degree.

Chemistry

Please read the prerequisites and recommendations section with each Chemistry class listing. Be sure that the prerequisites are satisfied before enrolling in a course.

ACCOMMODATIONS FOR ENGLISH AS A SECOND LANGUAGE

Students planning to take ESL (English as a Second Language) courses need to take the CELSA placement exam.

MAY I RETAKE A TEST?

Students are allowed to retake tests using the following schedule:

Basic Math Readiness	May be repeated one time AFTER one semester waiting period.
Intermediate Algebra Readiness	May be repeated one time AFTER one semester waiting period.
Advanced Math Readiness	May be repeated one time AFTER one semester waiting period.
Calculus	May be repeated one time AFTER one semester waiting period.
Reading.....	May be repeated one time AFTER one semester waiting period.
English	May be repeated one time AFTER one semester waiting period.
CELSA.....	May be repeated one time AFTER one semester waiting period.

ACCOMMODATION FOR INDIVIDUALS WITH DISABILITIES

Any student with a verified disability may arrange an accommodation for alternative test administration of English, reading, mathematics, and ESL placement tests. Prior to requesting an accommodation, a current Cerritos College application must be on file. Advance reservations may be made by contacting Disabled Student Programs and Services, (562) 860-2451, Ext. 2333. Alternative test administration may include extended time, large print, readers and scribes.

COUNSELING

All new students are advised to see a counselor for course approval prior to enrollment. Students who are on academic or progress probation are required to complete a contract with a counselor prior to enrollment. Students who have not declared an educational goal and students who are enrolled in pre-collegiate basic skills courses are highly encouraged to meet with a counselor to develop an educational plan. Readmit and transfer students are also advised to see a counselor.

All students are encouraged to meet with a counselor every semester to ensure that their educational plan accurately reflects their educational goal.

Follow-up

Counseling and teaching faculty provide a number of follow-up services to matriculated students. These services are designed to provide information regarding the students’ academic progress. Special services are provided to students on academic and/or progress probation, students in basic skills courses, and students who are undecided about their educational goal. Referrals are made to on and off campus services when appropriate.

What are Prerequisites, Corequisites and Recommendations?

It is the intent of Cerritos Community College to guide students into courses in which they will have the greatest chance for academic success. Therefore, the student will find courses which have prerequisites, corequisites and/or recommendations in their descriptions. This is the case when a specific body of knowledge or skill(s) must be learned or demonstrated before the student can be expected to successfully progress to the second-level course. For example, ENGL 52 (formerly ENGL 50.2) must be taken before ENGL 100. This is an example of courses that must be taken in sequence. Students are encouraged to consult the course descriptions found in the current college catalog for the identification of the prerequisites for a course.

Students currently enrolled in a prerequisite course at Cerritos College will be allowed to enroll in the next sequenced course. For example, students enrolled in ENGL 52 for fall may enroll in ENGL 100 for spring. However, it is the student’s responsibility to verify they have passed the prerequisite course. IF a passing grade is not received, the student will be dropped some time during the semester.

Automated prerequisite checking will stop students from enrolling in a class that has a required prerequisite you have not yet met. Prerequisites are checked at the time of enrollment (Auto-enroll and Instructor adds). Prerequisites are not checked when added to shopping cart.

To avoid being denied enrollment, students should complete the Cerritos College placement tests or submit transcripts if prerequisite coursework was completed at another institution. Transcripts and or grade cards are accepted in the Admissions and Records Office. Complete the Requisite Clearance Request Form available from Counseling, Admissions and Records, or download the form at www.cerritos.edu/prerequisites.

Following are the definitions for prerequisites, corequisites and/or recommendations for course preparation:

1. A prerequisite is any requirement which must be satisfied before a student may enroll in a course. In other words, “prerequisite” means a course that a student is required to complete in order to demonstrate current readiness for enrollment in a course or educational program. The prerequisites offered at Cerritos College are listed with course titles in the “Announcement of Courses” section of the catalog and in the current Schedule of Classes.

2. "Corequisite" means a course that a student is required to take at the same time with another course. For example, if a student enrolls in PHAR 60, he/she must take PHAR 60L at the same time.
3. "Recommendation" for course preparation means a condition of enrollment that a student is strongly suggested to meet before or along with enrollment in a course or educational program but is not required to do so.
4. "Passing grade" is at least a grade of "C" (satisfactory). Credit will not be granted for substandard course work ("D", "F", or "FW").
5. "Satisfactory grade" means that, for the course in question, the student's academic record has been annotated with the symbol A, B, C, or "P".

WHAT IS THE PREREQUISITE CHALLENGE AND WAIVER PROCEDURE FOR STUDENTS?

A prerequisite may be waived by the institution for students who have presented the appropriate reasons and/or who have the appropriate experience.

If you believe that you meet the requirements, then the College may waive a prerequisite. A Requisite Challenge and Waiver Form can be obtained upon request from the Admissions and Records Office, Counseling Center, or downloaded from www.cerritos.edu/prerequisites.

It is the student's responsibility to provide information to support the challenge and waiver. The petition must be filed and resolved prior to the student's enrollment into the course.

Criteria for waiving a course:

1. You have the knowledge or the ability to succeed in the course without the prerequisite.

Criteria for challenging a course:

1. The course which provides the prerequisite is not available.
OR
2. You believe that the prerequisite is discriminatory or is being applied in a discriminatory manner.
OR
3. You believe that the prerequisite was established in violation of regulations and/or the established District-approved policy and procedures.

Students must bring transcripts from other colleges/universities or high schools to establish that prerequisites have been met.

If you submit the Requisite Clearance Request Form and your request is denied, you must submit the Requisite Challenge and Waiver Form to the Counseling Department. Your appeal will be reviewed by a Prerequisite Challenge Committee, which consists of a member of the appropriate department and the instructional dean. You will be informed by mail of the committee's determination within five (5) working days.



Enrollment Information

COUNSELING

Of major importance to every student enrolled at Cerritos College is the comprehensive counseling service that is provided to assist students in achieving their educational goals as fully, smoothly, and as efficiently as possible. The constant change of requirements and prerequisites for institutions and occupations make continuing contact with the Counseling staff a vital part of the student's successful academic experience.

The counseling service consists of four major functions:

- (1) assistance in planning academic programs;
- (2) assistance in exploring career possibilities;
- (3) consultation and referral regarding personal problems;
- (4) provision of additional auxiliary services, such as personal development classes, articulation with transfer institutions, referrals to outside agencies, orientation classes, and placement interpretation.

These various services are offered by a professional staff of credentialed counselors trained to help students in the appropriate areas of their concerns. The counseling staff works closely with all divisions of the College and keeps abreast of the educational programs both here and at the four-year institutions.

Although the use of counseling services is on a voluntary basis, all entering freshmen, students on probation, students transferring in from other schools, F-1 VISA students, and students on financial aid are required to meet with a counselor for program planning and approval before enrollment. Generally, students should schedule conferences each semester. Counseling appointments may be made in person at the Counseling Center located in the Administration Building or by telephoning (562) 860-2451, Ext. 2231. Limited walk-in counseling is also available. General academic counseling is available online at <http://cms.cerritos.edu/counseling>.

Due to the high volume of students seeking counseling before the start of each semester, appointments are not made during the four weeks prior to each semester. Only walk-in counseling is available during this time. Contact the Counseling Department for hours scheduled for walk-in counseling.

PROGRAM PLANNING

Students are expected to take courses on a consecutive basis. Students are not to receive credit for courses which are considered lower in degree of advancement than those already taken. Courses are to be taken in accordance with the student's ultimate objective and major.

ADMISSION TO CLASS

Students must be officially enrolled before attending any class. If students are unable to attend the first class meeting, every effort should be made to contact the instructor(s) or the instructor(s) may drop the student as a "no show".

Students seeking admission into a "closed" class must attend the first day of class. Instructors may add students depending on seat availability and students' completion of prerequisites, if applicable.

It is the policy of Cerritos 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.

AUDITING COURSES

Auditing courses is permitted at Cerritos College. An auditor is a student who attends a class or classes for no credit or notation on the official transcript. Auditing may be available, pending instructor's signed permission, for any student who wishes to attend a course for information, review purposes or skill building. Students wishing to audit should be aware that audited courses will NOT appear on the official transcript. Prerequisite checking is not required.

1. Students may not audit a course unless he/she has exhausted all possibilities to take the course for credit.
2. Permission to audit a course is granted at the discretion of the instructor and with the instructor's **signed** permission.
3. With the instructor's **signed** permission a student may enroll for audit status anytime during the semester **after** the first day of the class. (The first day of the class refers to the actual first class meeting.)
4. An auditor may be allowed to elect credit in lieu of audit **prior** to end of the 5th week of school for a semester length course or **prior** to 30% of a course for a short-term course, **with the instructor's written permission**. Audit fees are non-refundable and all credit fees must be paid in full at the time of credit election.
5. A credit student may be allowed to elect audit status in lieu of credit **prior** to end of the 5th week of school for a semester length course or **prior** to 30% of a course for a short-term course, **with the instructor's written permission**. Credit fees are non-refundable after refund deadline and all audit fees must be paid in full at the time of audit election.
6. Credit students have priority over auditing students.
7. The fee to audit a class is \$15.00 per unit (in addition to the student fees). Students enrolled in 10 or more units can audit 3 units free (may be 3 one-unit classes). The \$15.00 per unit audit fee will automatically be charged if the student drops below 10 units.

ADD PROCEDURES

If you wish to add to your class program, please follow the steps below:

1. Complete an Add/Drop card (available in the Admissions and Records Office) or you may add via **MyCerritos** (www.my.cerritos.edu) or **Falcon Phone**.
2. If the class is closed, you must go to class on the first day and time that it meets; be on time. Respectfully request of the instructor(s) to be added to the class(es); if the instructor approves, an electronic enrollment will be submitted on your behalf to Admissions and Records. Please note that prerequisites and holds (service indicators) will be checked. Payment for each class added is due within 5 business days of your request. Failure to do so will result in a delinquent debt to the institution and a restrictive hold to your student account (transcripts, graduation and future enrollments will be stopped). If you drop a class after the refund date and have not paid the fees, you are still responsible for the debt on your account. Please check your student account via **MyCerritos** (www.my.cerritos.edu), **Falcon Phone** or in the **Admissions and Records Office**. **All enrollments must be completed by the listed add deadlines.**

DROP

Pursuant to Title 5, section 58004 and Cerritos College Board Policy, it is the student's responsibility to participate fully in class(es), once enrollment is complete. However, should it become necessary to drop a class, it is the student's responsibility to present to the Admissions and Records office, a student signed drop card.

It is recommended that students take the initiative to officially drop themselves.

Failure to officially drop from class(es) may result in an "F" grade for each class and a delinquent debt and restrictive hold to the student's account.

To officially drop after enrollment ends, drop the course(s) via "My Cerritos" at www.cerritos.edu or **Falcon Phone**. Be sure to verify the drop with a printed receipt.

Deadlines for dropping a class or classes shall be authorized through the last day of the 14th week of an 18-week term or 75% of a shorter than 18-week term, whichever is less. The academic records of a student who remains in a class beyond the date allowed for drop must reflect an authorized symbol, other than a "W"

"W's" are considered "honorable withdrawals" and shall not be used in calculating grade point averages. However, excessive "W's" shall be used as factors for probation and dismissal procedures. Additionally, a student who has a "W" in the same class two or more times, loses the privilege of priority enrollment for that class. Students may submit a Petition for Course Repetition, which is subject to approval or denial, to the Academic Records and Standards Committee for exceptions to the Excessive "W" policy for course repetition.

DROPPING A CLASS(ES) AFTER THE DROP DEADLINE

Students must have documented, circumstances beyond his/her control to initiate a drop after the listed deadline. Examples of circumstances beyond the control of the student include, but are not limited to, the following: accident, illness, change in work schedule, or other documented circumstances. A "W" will be posted to the official transcript. See the Dean of Admissions if you need further information.

STUDY LOAD

In order to meet graduation requirements in four semesters, students must carry an average of 16 units of degree applicable credit each semester. Students desiring to enroll in more than 18 units must have the approval of a counselor. Other unit limitations are:

Foreign Visa Students not less than 12 units.

Intercollegiate athletes not less than 12 units.

REPETITION OF COURSES

Course repetition allows such courses for which substandard work has been recorded, to be repeated only once. The previous grade and units will be disregarded in the computation of Cerritos College grade point average. When course repetition occurs, permanent academic work shall be annotated in such a manner that all work remains legible ensuring a true and complete academic history. The computer system checks for course repetition at the time of enrollment. The following policies apply to course repetition.

Students may use equivalent course work from an accredited college or university to replace a Cerritos College course in which substandard work was recorded.

Courses designated as repeatable are indicated following this section.

Exceptions to the Course Repetition Policy

Students may petition the Academic Records and Standards Committee for consideration of exceptions to the policy.

Examples of Exceptions:

1. Student received two "W's," or any combination of one substandard grade and one "W".
2. Student's previous grades are a result of documented circumstances beyond his/her control.
3. Curriculum changes have occurred.
4. Repetition is necessary for legally mandated training. Such courses may be repeated 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. (Title 5, Division 6, Ch. 6 Subchapter 9, §55763)

Cerritos College has identified the courses listed below as repeatable under the above guidelines for the maximum number of units listed.

COURSE	DESCRIPTION	MAX	
		UNITS	TIMES
AB 52	Structural Damage Repair	4.5	2
AB 53	Suspension, Alignment and Power Train Damage	4.5	2
AB 54	Advanced Design Automotive Panel Repair	4.5	2
AB 55	Structural Panel Replacement	4.5	2
AB 57	Structural Automotive Welding	2.0	3
AB 58	Collision Repair Update	4.5	3
AB 59A	Computerized Measuring	1.0	2
AB 59B	Unitized Body Analysis	1.0	2
AB 59C	Full Frame Analysis and Repair	1.0	2
AB 59E	Full Frame Repair – Gauges	1.0	2
AB 61	Preparation and Spot Refinishing	4.5	2
AB 62	Overall and Multi-Coat Refinishing	4.5	2
AB 63	Production Refinishing	4.5	2
AB 65	Mixing and Adjusting Color	2.0	3
AB 66	Lettering, Striping & Design	2.5	2
AB 68	Refinishing Update	4.5	4
AB 73/74	Auto Collision Rep Occ Work Experience	3-4	4
AB 75	Body Panel Modification	4.5	2
AB 76	Partial-Panel Fabrication	4.5	2
AB 77	Full-Panel Fabrication	4.5	2
AB 79	Automotive Fabrication Projects	4.5	2
AB 80	Autobody Customer Service	2.0	4
AB 83A	Computerized Damage Estimating-ADP	1.5	2
AB 83C	Computerized Damage Estimating-CCC	1.5	2
AB 83M	Computerized Damage Estimating-Mitchell	1.5	2
AB 86	Production Management	2.0	4
AB 88	Estimating and Management Update	3.0	4
AB 181	Non-Structural Damage Estimating	3.0	2
AB 182	Structural Damage Estimating	3.0	2
AB 183	Computerized Damage Estimating	1.5	4
AB 281	Structural Damage Analysis for Estimators	1.0	2
AB 285	Collision Repair Management	3.0	2
AB 287	Advanced Collision Repair Management	2.0	4
ACCT 1T	Accounting Microcomputer Tutorial	.5	4
ACCT 2T	Accounting Tutorial	.5	4
ACCT 171	Business Accounting Occupational Work Experience	1.0	3
ACCT 172	Business Accounting Occupational Work Experience	2.0	3

Cerritos College General Catalog

COURSE	DESCRIPTION	MAX		COURSE	DESCRIPTION	MAX	
		UNITS	TIMES			UNITS	TIMES
ACCT 173/174	Business Accounting Occ Work Experience	3-4	4	ART 287A	Letter Arts	2.0	2
ACCT 231	Current Topics in Payroll	1.5	2	ART 287B	Roman Calligraphy	2.0	3
AJ 173	Administration of Justice Occupational Work Experience	3.0	4	AUTO 54	Introduction to Electric Vehicles	4.0	2
ANTH 251	Field Trips in Archaeology	3.0	2	AUTO 55	Advanced Technology Electric Vehicles	4.0	3
ARCH 43/44	Arch Drawing Occ Work Experience	3-4	4	AUTO 73/74	Auto Mech Rep Occ Work Experience	3-4	4
ARCH 123	Intro to 2D Computer Aided Drafting	4.0	2	AUTO 120	Automatic Transmission/Transaxles	5.0	2
ARCH 213	Intro to 3D Computer Aided Drafting	4.0	2	AUTO 130	Manual Drivetrain and Axles	5.0	2
ARCH 221	Architectural CAD Working Drawings	4.0	3	AUTO 140	Automotive Steering and Suspension	5.0	2
ART 50	Chinese Brush Painting	3.0	2	AUTO 150	Automotive Brakes	5.0	2
ART 114	Storyboard and Graphic Novel Illustration	3.0	2	AUTO 170	Automotive Air Conditioning	4.0	2
ART 115L	Printmaking Lab	1.0	4	AUTO 180	Electronic Engine Management Systems	5.0	2
ART 117	Intermediate Printmaking	3.0	2	AUTO 210	Automotive Machine Shop	5.0	2
ART 136	Painting for Art Majors	3.0	2	AUTO 211	High Performance Engines	5.0	2
ART 144	Jewelry/Metalsmithing	3.0	2	AUTO 212	Automotive Specialty	2.0	3
ART 145	Jewelry Casting & Molds	3.0	2	AUTO 280	Diagnostic Engine Performance	4.0	2
ART 151	Ceramics-Beginning Wheelthrowing	3.0	2	AUTO 281	Emission Control Systems-1997 Standards	5.0	2
ART 152	Ceramics-Beginning Handbuilding	3.0	2	BA 171	Business Administration Work Experience	1.0	3
ART 153	Ceramics-Intermediate Wheelthrowing	3.0	2	BA 172	Business Administration Occ Work Experience	2.0	3
ART 154	Ceramics-Intermediate Handbuilding	3.0	2	BA 173/174	Business Administration Occ Work Experience	3-4	4
ART 155	Beginning Ceramic Sculpture	3.0	2	BCOM 152	Job Search in the Business Field	1.5	2
ART 156L	Ceramics Lab	1.0	4	BCOT 3T	Business Communication Word Processing or Keyboarding Tutorial	.5	4
ART 160	Life Sculpture	3.0	4	BCOT 5A	Word Module	.5	1
ART 163	The Techniques of Sculpture	3.0	2	BCOT 5B	Excel Module	.5	1
ART 171	Occupational Work Experience in Art	1.0	4	BCOT 5D	PowerPoint/Internet Module	.5	1
ART 180	Calligraphy I	3.0	2	BCOT 63	Keyboarding Speed/Control Building	1.0	3
ART 181	Calligraphy II	3.0	2	BCOT 96	Microsoft PowerPoint	1.5	2
ART 183	Introduction to Illustration	3.0	2	BCOT 97	Microsoft Outlook	1.5	2
ART 183A	Commercial Brush Lettering	1.0	2	BCOT 111	MS Project for Office Professional	3.0	2
ART 183B	Copperplate Calligraphy	1.0	2	BCOT 112	Microsoft Word	3.5	2
ART 186	Computer Graphics with Adobe Illustrator	3.0	2	BCOT 113	Microsoft Excel	3.5	2
ART 188	Design for Desktop Publishing	3.0	2	BCOT 173/174	Business Computerized Office Technologies	3-4	4
ART 189L	Computer Graphics Lab	1.0	4	BIOL 100	Natural History of So. Calif.	1.0	2
ART 190	Animation Principles	3.0	2	BIOL 180L	Life Science Preparations	1.0	2
ART 191A	3D Computer Animation	3.0	2	BIOL 250L	Special Topics in Biology	1.0	4
ART 191B	3D Computer Animation Project	3.0	2	CA 43/44	Culinary Arts Occ Work Experience	3-4	2
ART 192B	Advanced Photoshop	3.0	2	CA 65	Food Costing	2.0	3
ART 194	Multimedia Design	3.0	2	CA 101	Introduction to Food Services, Safety and Sanitation	1.0	4
ART 194A	Advanced Final Cut Pro	3.0	2	CDEC 173/174	Early Childhood Education Occ Work Experience	3-4	4
ART 195	3D Modeling for Animation	3.0	2	CDIA 73/74	Educational Paraprofessional Occ Work Experience	3-4	2
ART 196	Web Design with Flash and Dreamweaver	3.0	2	CDIA 99	Educational Paraprofessional Practicum	3.0	2
ART 197	Digital Painting	3.0	2	CDSE 73/74	Special Ed Asst Occ Work Experience	3-4	4
ART 198	Motion Graphics	3.0	2	CG 2	Self Aware-Edu Readiness	2.0	2
ART 213	Intermediate Life Drawing	3.0	2	CG 6	Family Living for the Disabled Student	1.0	4
ART 214	Special Studies in Life Drawing	3.0	2	CG 50	Orientation and Educational Planning	.5	2
ART 217L	Advanced Screenprinting/Advanced Etching Lab	1.0	4	CG 210	Job Search Strategies	1.0	2
ART 218	Screenprinting	3.0	2	CHEM 250L	Special Topics in Chemistry	1.0	2
ART 219	Advanced Etching	3.0	2	CIS 5C	Business Computer Information Systems Database Module	.5	2
ART 231	Intermediate Painting	3.0	2	CIS 58A	PC Operating Systems A+ Certification	3.5	3
ART 232	Portraiture: Drawing/Painting the Head	3.0	2	CIS 58B	PC Core Hardware A+ Certification	3.5	3
ART 237	Life Painting	3.0	2	CIS 105B	Microsoft Windows Mobile	3.0	2
ART 238	Special Studies in Painting	3.0	2	CIS 168C	Special Topics in Networking	3.0	2
ART 239	Portrait Painting	3.0	2	CIS 169A	Special Topics in Security	1.0	2
ART 246	Jewelry Design Fabrication	3.0	2	CIS 169D	Special Topics in Security	3.5	2
ART 248	Hollow Forming Jewelry Processes	3.0	2				
ART 252	Ceramics Form and Techniques	3.0	2				
ART 253	Ceramics Form and Content	3.0	2				
ART 255	Intermediate Ceramic Sculpture	3.0	2				
ART 264	Sculpture - Stonecarving	3.0	3				

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		UNITS	TIMES			UNITS	TIMES
CIS 189A	Special Topics in Software Development	1.0	4	CRCC 152	Introduction to Jury Charge Intermediate Computerized Shorthand	4.5	2
CIS 189B	Special Topics in Software Development	2.0	4	CRCC 153	Multiple-Voice Colloquy I Computerized Shorthand Speed Building I	4.5	2
CIS 189C	Special Topics in Software Development	3.0	4	CRCC 154	Introduction to Congressional Record Computerized Shorthand Speed Building II	4.5	2
CIS 189D	Special Topics in Software Development	3.5	2	CRCC 155	Multiple-Voice Colloquy II Computerized Shorthand Speed Building III	4.5	3
CIS 211A	Special Topics in Database	1.0	4	CRCC 156	Jury Voir Dire Procedures Computerized Shorthand Speed Development (140-170 wpm)	4.5	3
CIS 211B	Special Topics in Database	2.0	4	CRCC 157	Congressional Testimony Computerized Shorthand Speed Development (160-190 wpm)	4.5	3
CIS 211C	Special Topics in Database	3.0	4	CRCC 158	Professional Practices Hearings/Conferences Computerized Shorthand Speed Development (180-210 wpm)	5.0	3
CIS 271	Computer and Information Science Occ. Work Experience	1.0	3	CRCC 159	In Curia/In Camera Procedures Computerized Shorthand Speed Development (190-225 wpm)	5.0	3
CIS 272	Computer and Information Science Occ. Work Experience	2.0	3	CRCC 173/174	Business Court Reporting/Computerized Shorthand Occupational Work Experience	3-4	4
CIS 273/274	Computer and Information Science Occ. Work Experience	3-4	4	CRCC 180	Computerized Shorthand Speed Building (225 wpm)	4.5	4
COS 1	Cosmetology Salon Preparation	1.0	4	CRCC 185	CSR/RPR Examination Preparation	1.5	3
COS 53	Advanced Cosmetology Manipulation	6.5	3	CRCC 190	Medical Transcription I/Court Reporting Method	3.0	2
COS 63	Advanced Cosmetology Manipulation	5.0	2	CRCC 191	Medical Transcription II/Court Reporting Method	3.0	2
COS 70C	Advanced Cosmetology Manipulation	8.0	2	CRCC 192	Transcription Procedures	2.0	2
COS 73A	Advanced Cosmetology I	4.0	2	CRCC 193	Basic Captioning	2.0	2
CRCC 2T	Computer-Aided Transcription Lab	.5	4	CRCC 193B	Basic Broadcast Captioning	2.0	2
CRCC 50	Computer-Aided Proofreading	2.0	2	DA 1	Dental Radiation Safety Licensing	1.5	2
CRCC 119A	Beginning Computer-Aided Transcription	3.0	2	DANC 105	Introduction to Dance Movement	3.0	4
CRCC 119B	Intermediate Computer-Aided Transcription	3.0	3	DANC 106A	Beginning Ballet	2.0	2
CRCC 119C	Advanced Computer-Aided Transcription	3.0	3	DANC 106B	Intermediate Ballet	2.0	2
CRCC 119D	Basic Concepts of Realtime	3.0	3	DANC 107	Ballet Variations	2.0	4
CRCC 119E	Computer-Aided Medical Dictionary Build	3.0	3	DANC 108A	Dance, Modern, Beginning	2.0	2
CRCC 119F	Computer-Aided Legal Dictionary Build	3.0	3	DANC 108B	Dance, Modern, Intermediate	2.0	2
CRCC 119G	Computer-Aided Transcription for Scopists	3.0	2	DANC 109	Introduction to Dance Cultures of the World	2.0	4
CRCC 125	Computerized Shorthand Realtime Practicum I (100-130 wpm)	4.5	2	DANC 110	Commercial Dance	2.0	4
CRCC 126	Computerized Shorthand Realtime Practicum II (120-150 wpm)	4.5	3	DANC 120	Partnering for Dance	2.0	2
CRCC 127	Computerized Shorthand Realtime Practicum III (140-170wpm)	4.5	3	DANC 121	Latin Social Dance	2.0	4
CRCC 128	Computerized Shorthand Realtime Practicum IV (160-190wpm)	5.0	4	DANC 122	Middle Eastern Dance	2.0	4
CRCC 129	Computerized Shorthand Realtime Practicum V (180-210 wpm)	5.0	4	DANC 123	African Dance	2.0	4
CRCC 130	Computerized Shorthand Realtime Practicum VI (190-225wpm)	4.5	4	DANC 124	Hip Hop Dance	2.0	4
CRCC 139	Exploring Career Opportunities in Court Reporting	1.0	2	DANC 125	Introduction to Ballroom Dance	2.0	4
CRCC 141	Computerized Shorthand Theory Review/Skill Development	4.0	2	DANC 130	Choreography	2.0	2
CRCC 141A	Computerized Shorthand Theory Review/Skill Development A	2.0	2	DANC 133	Dance Production	2.0	4
CRCC 141B	Computerized Shorthand theory Review/Skill Development B	2.0	2	DANC 134	Dance Performance	2.0	4
CRCC 142	Intermediate Computerized Shorthand	4.5	2	DANC 135	Dance Workshop	2.0	4
CRCC 143	Computerized Shorthand Speed Building I	4.5	2	DANC 136	Dance Repertory	2.0	4
CRCC 144	Computerized Shorthand Speed Building II	4.5	2	DANC 140	Beginning Jazz Dance	2.0	2
CRCC 145	Computerized Shorthand Speed Building III	4.5	3	DANC 141	Intermediate Jazz Dance	2.0	2
CRCC 146	Computerized Shorthand Speed Building (140-170 wpm)	4.5	3	DANC 142	Beginning Tap Dance	2.0	2
CRCC 147	Computerized Shorthand Speed Building (160-190 wpm)	4.5	4	DANC 143	Intermediate Tap Dance	2.0	2
CRCC 148	Computerized Shorthand Speed Building (180-210 wpm)	5.0	4	DANC 144	Dance for Musical Theatre	2.0	2
CRCC 149	Computerized Shorthand Speed Building (190-225 wpm)	5.0	4	DS 98	Directed Studies	1.0	2
				DS 99	Directed Studies	2.0	2

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		UNITS	TIMES			UNITS	TIMES
DS 298	Directed Studies	1.0	2	MATH 90B	Training for Tutors of Mathematics II	2.0	2
DS 299	Directed Studies	2.0	2	MFGT 43/44	Manufacturing Tech Occ Work Experience	3-4	4
EDT 19	Fundamentals of Teleconferencing	1.0	4	MTT 1L	CNC Machining Laboratory	1.0	4
EDT 20	Teleconferencing for Small Groups	2.0	2	MTT 2L	Mastercam Laboratory	1.0	4
EDT 21	Teleconference Telematics	1.0	4	MTT 3L	Virtual Gibbs	1.0	4
EDT 22	Teleconference Review and Evaluation	1.0	4	MTT 4L	Manual Machining Laboratory	1.0	4
EDT 23	Teleconference Production	3.0	3	MTT 57	Set up and Operation of CNC Lathes	3.0	2
EDT 24	Teleconference Portfolio	3.0	3	MUS 112	Elementary Piano I	2.0	2
EDT 30	Fundamentals of Instructional			MUS 113	Elementary Piano II	2.0	2
	Multi-media Production	2.0	2	MUS 114	Intermediate Piano I	2.0	2
EDT 43	Educational Occupation/Work Experience	3.0	2	MUS 115	Intermediate Piano II	2.0	2
EDT 57	Apple/Claris Works for Educators	1.0	2	MUS 116	Voice I	2.0	2
EDT 67	Inspiration Presentations	1.0	4	MUS 117	Voice II	2.0	2
EDT 68	Using KidPix	1.0	4	MUS 118	Voice III	2.0	2
EDT 81	Videos for School Use	2.0	2	MUS 119	Voice IV	2.0	2
EDT 103	Spreadsheet for Educators	2.0	2	MUS 120	Elementary Guitar I	2.0	2
EDT 104	Word Processing for Educators	2.0	2	MUS 121	Elementary Guitar II	2.0	2
EDT 105	PowerPoint for Educators	2.0	2	MUS 122	Intermediate Guitar I	2.0	2
EDT 106	Access for Educators	2.0	2	MUS 123	Intermediate Guitar II	2.0	2
EL 43/44	Electronics Occ Work Experience	3-4	4	MUS 124	Concert Band	2.5	4
EL 50	Electronic Tests and Measurements	1.5	2	MUS 124A	Beginning Band	2.5	4
EL 60	Computer Aided Circuit Analysis	1.5	3	MUS 125	Community Symphonic Band	2.5	4
ENGL 15	Beginning Writing for Native English			MUS 125A	Community Band	2.5	4
	Speakers	3.0	2	MUS 126	Pep Band	2.5	4
ENGL 33	Individualized English	.5	4	MUS 127	Orchestra	2.5	4
ENGL 227	Current Literature	3.0	2	MUS 128	Community Orchestra	2.5	4
ENGL 240	Creative Writing	3.0	2	MUS 129	Woodwind Ensemble	1.5	4
ENGL 241	Screenwriting	3.0	2	MUS 130	Brass Ensemble	1.5	4
ENGT 138	AutoCAD	4.0	2	MUS 131	Percussion Ensemble	1.5	4
ESCI 180	Earth Science Materials/Preparation	1.0	2	MUS 132	Guitar Ensemble	2.5	4
ESL 12	ESL Pronunciation	1.5	2	MUS 133	Stage Band	2.5	4
ESL 14	Pronunciation Plus	3.0	2	MUS 134	Jazz Ensemble	2.5	4
ESL 15	ESL Individualized Communication Skills			MUS 136	String Ensemble	1.5	4
	for Academic Success	.5	4	MUS 138	Community Chorus	2.5	4
ESL 22	ESL Oral Communication	1.5	2	MUS 138A	Collegiate Chorale	2.5	4
ESL 23	ESL Spelling	1.5	2	MUS 139	Gospel Choir	2.5	4
ESL 33	English for Specific Purposes	1.5	2	MUS 140	Pop Choir	2.5	4
ESL 35	Editing for Advanced Grammar and Syntax	1.5	4	MUS 141	Pop/Rock Ensemble	2.5	4
GEOL 100	Natural History of So. Calif.	1.0	2	MUS 142	Jazz Improvisation	1.0	4
HIST 270	Special Topics in History	3.0	2	MUS 143	The Jazz and Popular Singer	3.0	4
HO 7	Cardiopulmonary Resuscitation	.5	4	MUS 144	Electronic Synthesizer I	2.0	2
HO 9	Emergency Medical Technician I	3.0	2	MUS 145	Electronic Synthesizer II	1.0	2
HO 9L	Emergency Medical Technician I Lab	2.0	2	MUS 146	Recording Techniques	2.0	4
HO 56	Medication Calculations for Nurses	1.0	2	MUS 147	Basic Applied Music	1.0	4
INSR 171	Insurance Occupational Work Experience	1.0	4	MUS 148	Private Study/Technique	1.0	2
JOUR 50L	Editorial Board	1.0	4	MUS 149	Private Study/Musical Preparation	1.0	2
JOUR 103	Newspaper Article Writing	2.0	4	MUS 150	Private Study/Performance Practice	1.0	2
JOUR 105	Newspaper Production	2.0	4	MUS 151	Private Study/Preparation	1.0	2
JOUR 106	Talonmarks.com	1.0	4	MUS 154	Piano Ensemble	1.5	4
JOUR 120	Internet for Journalists	2.0	4	MUS 160	Marching Brass Ensemble	1.5	4
JOUR 121	Multimedia Reporting	3.0	2	MUS 161	Marching Percussion Ensemble	1.5	4
JOUR 160L	College Magazine Production	1.0	4	MUS 162	Marching Pageantry Ensemble	1.5	4
JOUR 170	Broadcast News/Webcasting	1.0	4	MUS 163	Drum and Bugle Corps	1.5	4
JOUR 171	Work Experience/Journalism	1.0	4	MUS 164	Touring Drum and Bugle Corps	1.5	4
LAW 171	Business Paralegal Occ Work Experience	1.0	3	MUS 171	Work Experience/Music	1.0	4
LAW 172	Business Paralegal Occ Work Experience	2.0	3	MUS 244	Digital Audio Post Production	3.0	2
LAW 173/174	Business Paralegal Occ Work Experience	3-4	4	NRSG 5	Removing Barriers to Success in Nursing	2.0	3
MA 73/74	Medical Assisting Occ Work Experience	3-4	4	NRSG 25	Clinical Workshop 1	.5	3
MATH 5	Mathematics Learning Strategies	1.0	3	NRSG 26	Clinical Workshop 2	.5	3
MATH 90A	Training for Tutors of Mathematics I	2.0	2	NRSG 48T	Elective Nursing – Tutorial	.5	4

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		UNITS	TIMES			UNITS	TIMES
NRSG 80	Nursing Process Documentation	1.0	3	PE 175B	Baseball, Intermediate/Advanced	2.0	2
NRSG 213B	Major Drugs and Nursing Management II	1.0	3	PE 176A	Basketball	1.0	2
PHOT 171	Occupational Work Experience in Photography	1.0	4	PE 176B	Basketball, Advanced	2.0	2
PHOT 232	Approaches to Studio Lighting	3.0	2	PE 177	Flag Football for Women & Men	1.0	4
PHOT 252	Photography of the Landscape	3.0	2	PE 178	Football, Intermediate/Advanced	2.0	4
PE 120	Sedentary Activities for Students with Disabilities	1.0	4	PE 179A	Soccer, Beginning	1.0	2
PE 121	Adapted Cardiovascular Exercise	1.0	4	PE 179B	Soccer, Intermediate/Advanced	2.0	2
PE 122	Adapted Strength Training	1.0	4	PE 200	Baseball	3.0	4
PE 123	Adapted Swimming	1.0	4	PE 201	Baseball Off-Season Conditioning	2.0	4
PE 124	Wheelchair Activities	1.0	4	PE 202	Basketball, Men	3.0	4
PE 125	Water Safety Instructor (WS)	2.0	4	PE 204	Basketball, Women	3.0	2
PE 126	Lifeguard Training	2.0	4	PE 206	Cross Country, Men	3.0	4
PE 130	Stretching and Relaxation	1.0	4	PE 207	Cross Country Conditioning	1.0	4
PE 131	Walking for Fitness	1.0	4	PE 208	Cross Country, Women	3.0	4
PE 132A	Low Impact Aerobics	1.5	4	PE 210	Football, Men	3.0	4
PE 132B	Aerobics Activities	1.5	4	PE 211	Football Conditioning (Olympic Weights - Power Lifting)	2.0	4
PE 133	Step Aerobics	1.5	4	PE 212	Football Training and Techniques	2.0	2
PE 134	Water Aerobics	1.0	4	PE 213	Intercollegiate Golf	3.0	4
PE 135A	Circuit Weight Training Beginning	1.0	2	PE 217	Soccer, Men	3.0	4
PE 135B	Circuit Weight Training Intermediate/Advanced	2.0	2	PE 219	Soccer, Women	3.0	4
PE 136	Indoor Cycling	1.0	4	PE 221	Softball, Women	3.0	4
PE 137	Song Unit	2.0	4	PE 222	Softball Pre-Season Conditioning	1.0	4
PE 138	Yoga	1.0	4	PE 223	Swimming	3.0	4
PE 139	Pilates Conditioning	1.0	4	PE 225	Swimming, Women	3.0	4
PE 141	Fitness and Wellness	3.0	2	PE 227	Tennis, Men	3.0	4
PE 142	Fitness for Older Adults	2.0	2	PE 228	Tennis Conditioning	1.0	4
PE 143	Personal Fitness Program	1.0	4	PE 229	Tennis, Women	3.0	4
PE 145	Basic Training and Physical Conditioning	1.0	4	PE 231	Track & Field, Men	3.0	4
PE 146	Weight Management	1.0	4	PE 233	Track & Field, Women	3.0	4
PE 147	Triathlon Basics	1.0	4	PE 234	Track & Field Conditioning	1.0	4
PE 148	Body Sculpting	1.0	4	PE 235	Volleyball, Women	3.0	4
PE 149A	Beginning Jogging	1.0	2	PE 236	Volleyball Pre-Season Conditioning	1.0	4
PE 149B	Intermediate Jogging for Fitness	2.0	2	PE 238	Wrestling Off Season Training	2.0	4
PE 150A	Swimming, Beginning	1.0	2	PE 239	Water Polo –Men	3.0	4
PE 150B	Swimming, Intermediate/Advanced	2.0	2	PE 241	Water Polo – Women	3.0	4
PE 151	Wrestling, Beginning	1.0	4	PE 243	Wrestling	3.0	4
PE 153A	Backpacking, Beginning	2.0	2	PE 245	Pep Unit	2.0	4
PE 153B	Backpacking, Advanced	2.0	2	PE 271A	Occupational Work Experience in Athletic Training	1.0	4
PE 154A	Badminton, Beginning	1.0	2	PE 271B	Occupational Work Experience in Fitness	1.0	4
PE 154B	Badminton, Intermediate/Advanced	2.0	2	PHAR 173/174	Pharmacy Tech Occ Work Experience	3-4	2
PE 155A	Bowling Beginning	1.0	2	PMT 2	Injection Molding Fundamentals	1.5	2
PE 155B	Bowling Intermediate/Advanced	1.0	2	PMT 43/44	Plastics Manufacturing Technology Occupational Work Experience	3-4	4
PE 156A	Golf, Beginning	1.0	2	PMT 59	Injection Molding I	2.5	2
PE 156B	Golf, Intermediate/Advanced	2.0	2	PMT 61	Fiberglass Technology	2.5	2
PE 158A	Racquetball, Beginning	1.0	2	PMT 63L	Specialty Plastics Lab	.5	4
PE 158B	Racquetball, Intermediate/Advanced	2.0	2	RE 172	Business Real Estate Occupational Work Experience/Career Internship	2.0	3
PE 159A	Tennis, Beginning	1.0	2	RE 173/174	Business Real Estate Occ Work Experience/Career Internship	3-4	4
PE 159B	Tennis, Intermediate/Advanced	2.0	2	RE 174A	Business Real Estate Occ Work Experience Alternate Plan	4.0	4
PE 160	Personal Self Defense	1.0	4	READ 6	Tutor Training	.5	1
PE 170	Water Polo	2.0	4	READ 41	Individualized Reading	.5	4
PE 171A	Softball	1.0	2	RTV 155	Radio Production	3.0	4
PE 171B	Softball, Intermediate/Advanced	2.0	2	RTV 170	Broadcast News/Webcasting	1.0	4
PE 171C	Slow Pitch Softball	1.0	2	RTV 171	Occupational Work Experience in Theatre	1.0	4
PE 172A	Volleyball, Beginning	1.0	2	RTV 255	Editing Audio	3.0	4
PE 172B	Volleyball, Intermediate/Advanced	2.0	2				
PE 173	Soccer Fitness and Technique	1.0	2				
PE 175A	Baseball, Beginning	1.0	2				

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		UNITS	TIMES			UNITS	TIMES
SLP 120L	Phonetics Lab	1.0	3	WMT 111L	Introduction to Woodworking Lab	1.0	4
SPCH 30	Communication Disorders	1.0	4	WMT 115	Scrollsaw Fretwork and Intarsia	2.0	2
SPCH 31	Communication Disorders	1.0	4	WMT 117	Woodworking Appreciation	1.0	3
SPCH 200	Contemporary Communication Topics	3.0	4	WMT 118	Introduction to Woodworking	2.0	2
SPCH 236	Forensics for One Tournament	1.0	4	WMT 119L	Introduction to Woodturning Lab	1.0	4
SPCH 237	Forensics for Two Tournament	1.0	4	WMT 130	Furniture Design	3.0	2
SPCH 238	Forensics for Three Tournament	1.0	4	WMT 132	Chair Design and Construction	4.0	4
SPCH 239	Forensics Workshop	2.0	4	WMT 134	Frame Making	4.0	4
TH 105	Intro to Musical Theatre Techniques	3.0	4	WMT 137	Outdoor Furniture	2.5	4
TH 108	Improvisation for the Theatre	3.5	2	WMT 144	Jigs and Fixtures	2.0	2
TH 109	Remounting a Production	2.0	4	WMT 148	Furniture Making and Manufacturing	4.0	4
TH 110	Fundamentals of Acting	3.5	2	WMT 151	Intro to Faceframe Cabinetmaking	4.0	2
TH 115	Stage Movement & Combat	3.0	2	WMT 153	32mm System of Cabinetmaking	4.0	2
TH 117	Stand-Up Comedy	3.0	2	WMT 154	Intro to Cabinet Installation	3.0	2
TH 123	Stage Make-up	3.0	2	WMT 155	Architectural Millwork	4.0	4
TH 130	Rehearsal & Performance for the Minor Role	1.0	4	WMT 157	Passage Door	4.0	2
TH 131	Rehearsal & Performance for the Supporting Role	2.0	4	WMT 159	Solid Surface Fabrication	4.0	2
TH 132	Rehearsal and Performance for the Leading Roles	3.0	4	WMT 171	Introduction to Wooden Boat Building	3.0	2
TH 133	Stage Crew Activity	1.0	4	WMT 181	Introduction to Computer Operations for Cabinetmaking and Design	3.0	2
TH 134	Technical Production	2.0	4				
TH 136	Touring Theatre Production for Supporting Roles	2.0	4	WMT 201	Woodworking with Hand Tools	4.0	4
TH 137	Touring Theatre Production for Leading Roles	2.0	4	WMT 202	Advanced Furniture Case Goods	4.0	2
TH 140	Beginning Jazz Dance	2.0	2	WMT 203	Wood Veneering	4.0	2
TH 141	Intermediate Jazz Dance	2.0	2	WMT 204	Advanced Tables	4.0	2
TH 142	Beginning Tap Dance	2.0	2	WMT 211	The Workbench Class	4.0	4
TH 143	Intermediate Tap Dance	2.0	4	WMT 212	Routers and Router Tables	4.0	4
TH 144	Dance for Music Theatre	2.0	2	WMT 218	Polychromatic and Closed Form Turning	3.0	2
TH 145	Costume Production for Dance	1.0	4	WMT 219L	Woodturning Lab	1.0	4
TH 146	Musical Theatre Production for Chorus	2.0	4	WMT 228L	Production Furniture Making and Manufacturing	1.0	4
TH 147	Musical Theatre Production for Leading Roles	3.0	4	WMT 229L	Comprehensive Woodworking Manufacturing Specialty	2.5	4
TH 156	Television Production	2.5	4	WMT 233	Morris Chair	4.0	4
TH 157	Television Commercial and Public Service Announcement Production	3.0	2	WMT 235	Windsor Chair	3.0	2
TH 158	Motion Picture and Digital Cinematography	3.0	2	WMT 239L	Traditional Furniture Lab	1.0	2
TH 160	Great Film Directors	3.0	2	WMT 241	Special Topics in Handtool	2.0	4
TH 171	Occupational Work Experience in Theatre	1.0	4	WMT 244	Chest of Drawers	4.0	2
TH 216	Acting for the Camera	3.0	2	WMT 246	Rocking Chair	4.0	4
TH 221	Costuming for the Stage	3.0	2	WMT 248	Production Furniture Making and Manufacturing	4.0	3
TH 221A	Advanced Costuming for the Stage	3.0	2	WMT 249L	Furniture Manufacturing Specialty	2.5	4
TH 241	Screenwriting	3.0	2	WMT 250	Intermediate Faceframe Cabinetmaking	4.0	4
TH 293	Advanced Motion Picture Editing	3.0	2	WMT 251	Advanced Cabinetmaking	4.0	4
WELD 43/44	Welding Occ Work Experience	3-4	4	WMT 252	Intermediate 32MM System Cabinetmaking	4.0	4
WELD 51L	Advanced Arc Welding Specialty Lab	1.0	2	WMT 253	Advanced 32MM System of Cabinetmaking	4.0	4
WELD 54L	Advanced Pipe Welding	2.0	4	WMT 258	Mantels and Wall Systems	4.0	2
WELD 170	Structural Fabrication	2.0	4	WMT 259L	Solid Surface Manufacturing Specialty Lab	2.5	4
WELD 210L	Arc Welding Applications	2.0	3	WMT 268A	Production Cabinetmaking (Commercial/Institutional)	5.0	2
WELD 240	Advanced Tungsten Arc Welding Lab	2.0	4	WMT 268B	Production Cabinetmaking & Manufacturing (Residential)	5.0	2
WELD 250L	Gas Tungsten Arc Welding Applications	2.0	2	WMT 268C	Production Cabinetmaking & Manufacturing (Mass Production)	5.0	2
WMT 43/44	Woodworking Manufacturing Tech Occ Work Experience	3-4	4	WMT 269L	Cabinetmaking Manufacturing Specialty	2.5	4
WMT 102	Introduction to Solid Wood Casegoods	4.0	2	WMT 281	Advanced Computer Operations for Cabinetmaking and Design	2.5	2
WMT 103	Introduction to Tables	4.0	2				
WMT 107	Wood Finishing	3.0	2				
WMT 108	Wood Carving for Furniture	2.5	2				

CHANGE OF ADDRESS

Changes in address must be reported immediately to the Office of Admissions and Records. Failure to do so may result in a delay of enrollment appointment or other important notifications. Address changes may be made online at www.cerritos.edu, "My Cerritos", "Student Center", "Personal Information."

COLLEGE UNITS

Each college course is worth a certain number of "units". This number is determined by the type of class it is and the number of hours per week it meets. For example, a three (3) unit lecture class (English or health) meets three hours per week during a regular eighteen week semester, but a one (1) unit laboratory course meets three hours per week.

UNIT CREDIT FOR MILITARY SERVICE

Veterans who have served on active duty a period of one year or longer and who have received other than a dishonorable discharge may be granted four (4) units credit. The units will be designated as "Military Credit" on the transcript. To apply for these units the veteran must present the D.D. Form 214 to the Admissions and Records Office. Credits are elective credits for the AA Degree only and do not apply to certificate programs.

MILITARY WITHDRAWAL

Pursuant to Education Code 66023, the Board of Trustees of Cerritos College makes provisions for non-punitive withdrawals of students from class who are members of an active or reserve United States military service unit and who are compelled to withdraw from courses. Any such military orders must be verified. After such time, a student will be administratively dropped from all classes by the Dean of Academic Affairs. There will be no notation made for withdrawals. Military withdrawal shall not be counted in progress probation and dismissal calculations.

CLASSIFICATION OF STUDENTS

<i>Freshman</i>	One who has earned fewer than 30 units.
<i>Sophomore</i>	One who has earned 30 or more units but fewer than 60 units, or has completed 60 units but does not hold a degree.
<i>Graduate</i>	One who has been awarded the Associate in Arts Degree or higher degree.
<i>Full-time</i>	One who is enrolled in 12 or more units.
<i>Part-time</i>	One who is enrolled in less than 12 units.
<i>College Bridge</i>	One currently enrolled in the 11th or 12th grade in high school (may include summer session prior to 12th grade) and who desires to enroll for college credit. Such a student must have a letter of approval from either the high school principal or high school counselor and parental consent. Students may not enroll in a College course to alleviate a high school deficiency.

PARKING REGULATIONS

Parking on campus is by permit only. Any motorized vehicle (except mopeds and motorcycles) requiring registration with the California Department of Motor Vehicles must have a current parking permit each semester. On vehicles, PERMITS ARE TO BE HUNG FROM REAR VIEW MIRROR OR PLACED ON DASHBOARD. THE PERMIT NUMBER MUST BE READABLE FROM THE OUTSIDE OF THE VEHICLE. NO OTHER LOCATION IS ACCEPTABLE. Vehicles not properly displaying or having no permit will be cited. Vehicles must be parked only in spaces or areas designed for vehicle parking. All vehicles must be parked with the front of the vehicle heading into the parking stall. Students may not park in stalls designated for staff parking.

A one-semester parking permit may be purchased at registration, or anytime during the semester at the Admissions Office or Campus Police Department, for \$20.00 for fall or spring semesters and \$10.00 for the summer session. A daily permit may be obtained for \$1.00 from the yellow Park-Ur-Self meters located on the sidewalks in the student parking lots. The meters accept four quarters or a \$1.00 bill (meters do not dispense change/no refunds). Students may not park in staff parking lots or stalls unless they are disabled and have a valid "DP" plate or placard AND a student parking permit displayed. During the first week of each semester, parking is free in student stalls. See the class schedule for exact dates. VEHICLES NOT DISPLAYING A VALID PERMIT OR INCORRECTLY PARKED IN STAFF, METERED, OR HANDICAPPED STALLS, ETC., WILL BE ISSUED A PARKING CITATION.

PARKING AREAS

Vehicles authorized to park on the Cerritos College campus shall be parked head in only in areas that have been painted with lines indicating parking stalls. Park only in the area designated by your permit except for handicapped students with DMV permit and Cerritos College permit.

Designated Parking Areas are Color Coded:

WHITE	Student parking, current term or daily student parking permit required.
YELLOW	Faculty and staff, permit required.
GREEN	Timed coin-operated meters.
BLUE	Handicapped-DMV permit and Cerritos College permit required.
WHITE GRID MARKED	Motorcycle parking only.
PINK	Cosmetology patron parking-located in Lot C-11. Pink cosmetology patron parking permit required.
DARK BLUE	Student Health Services
Bicycles must park in designated areas only. All designated student and staff parking areas will be enforced Monday through Friday, 7:30 a.m. to 10 p.m.	

PARKING ON THE INTERIOR CAMPUS

Bicycles are to park in District provided racks. Violators will be cited. Only those vehicles with approval from college's Campus Police Office are permitted to drive and park on the interior and sidewalks of the campus. Violators will be cited and/or the vehicle taken and put into storage.

OFF-CAMPUS PARKING

Off-campus parking is extremely restricted. Parking in surrounding residential areas is by City-issued permit only. The city will cite student vehicles. The property owners also prohibit parking in the shopping centers adjacent to campus. The property managers, at the student's expense, impound student vehicles parking in these lots.

RESPONSIBILITIES FOR PENALTIES

The registered owner of any vehicle on campus may be held responsible for liability or damage claims including parking or other traffic violation penalties arising in connection with the possession and/or operation of the vehicles on the Cerritos College campus.

LOST, STOLEN, OR DAMAGED PERMITS

Replacements for lost, stolen, or damaged permits can be purchased at the Campus Police Department in accordance with the fees indicated.

REFUNDS

Parking permit refunds will be given through the Admissions and Records Office. Before classes begin, a 100 percent refund will be given. After classes begin, no refund will be given.

LIABILITY

Cerritos College assumes no liability and is not responsible for damage or theft of any vehicle or its contents.

Scholars' Honors Program

The Scholars' Honors Program (SHP) at Cerritos College provides transfer-bound students with the opportunity to enrich themselves through participation in unique, challenging and interactive educational experiences. The SHP promotes this goal by providing an office that supports and assists students, by offering special Honors course sections taught by outstanding professors, and by offering opportunities for students to work one-on-one and in class with these faculty members through honors research contracts.

Honors courses build skills in speaking, writing, analytical thinking, problem solving and task-management. They fulfill basic general education requirements for graduation and transfer to a four-year college or university.

ADVANTAGES OF HONORS

Honors programs in the community college are the least expensive and one of the most efficient ways to get a good education and prepare for admission to the 4-year university or college of your choice.

Major universities that reject most of those who apply as freshmen will often accept most of the community college honors program students who apply for junior year transfer.

The Scholars' Honors Program at Cerritos is an effective way to develop your reading, writing, critical thinking and research skills and to learn to work directly with faculty members. This helps you to get good letters of recommendation that can be used for transferring to a four-year college or university, or applying for a job, internship or special program.

BENEFITS FOR SHP STUDENTS

- Working one-on-one with professors
- Small SHP course sizes
- Private honors graduation ceremony
- Travel to national and regional conferences
- Free library privileges at UCLA and UC Irvine
- Priority admission into several CSU honors programs
- Guaranteed admission or priority consideration for admission at:

UC Irvine	Occidental College
UCLA	Pitzer College
UC Riverside	Pomona College
Chapman University	University of San Diego
Loyola Marymount University	and others

REQUIREMENTS OF THE PROGRAM

SHP students must maintain a cumulative GPA of at least 3.0 in all their transferable courses and complete a total of six honors courses from the two options below:

1. **SHP Courses** — Many typical general education courses have honors sections. These have smaller enrollments than other courses. They offer different teaching approaches, more opportunity for hands-on experience and direct communication with the professors.
2. **SHP Contracts** — Students undertaking a contract work closely with the instructor to design and complete a special honors project connected with the regular course. On completion of the project, the student earns honors credit for the course.

CRITERIA FOR ADMISSION TO THE SHP

- All students must demonstrate (through placement tests or other means) readiness to start English 100: Freshman Composition
- All students must demonstrate (through placement tests or other means) readiness to start MATH 80: Intermediate Algebra
- High School students must have a cumulative GPA of 3.25 or above.
- Current college students must have a cumulative GPA of 3.0 on at least 12 transferable units.

For applications or further information, contact:

Timothy Juntilla

Director, Scholars' Honors Program

(562) 860-2451 Ext. 2828; tjuntilla@cerritos.edu

OR

Cerritos College

The Scholars' Honors Program

(562) 860-2451, Ext. 2728; shp-info@cerritos.edu

On the Web: www.cerritos.edu/shp

Learning Communities Program

The Learning Communities Program (LCP) of Cerritos College is founded on the principle that acquiring knowledge demands social interaction. For this reason, the LCP seeks to nurture students within a community of learners and to engender a new culture of learning at Cerritos College. Specifically, the Learning Communities Program commits to three interdependent objectives. First, LCP validates that students' experiences and ideas are essential components to true learning. Second, this program illustrates that collaboration and sharing increases exponentially the process of true teaching. Third, the Learning Community Program of Cerritos College demonstrates that an interdisciplinary approach to teaching and learning best prepares individuals for the complexities of living successfully in the 21st century.

WHAT IS A LEARNING COMMUNITY?

Enrolling in a Learning Community at Cerritos College means that you can complete your education program by linking two or more courses. Those who teach these courses assure that they combine the content so that learning becomes more relevant and easier for you. For example, you can be part of a learning community that combines English and history or math and economics. Equally important, by becoming part of the Learning Communities Program, you will have a great support network provided by your teachers, a counselor, and opportunities for various workshops and field trips. By combining learning, counseling, and social events, we want to increase your confidence and friendships. Each semester, the Learning Communities Program includes many linked or paired courses, courses that increase your fundamental skills and add to completion of your general education requirements. By registering for a Learning Community, you will be on the "Fast Track to Success."

The First-Year Experience Program (FYE) is a special part of the Learning Community Program. Students are enrolled in a full semester's work at one time. These courses are designed to provide students with a strong start in college. Students who are interested in this program should call (562) 860-2451, Ext. 2782 or 2814 for more information.

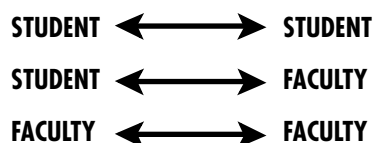
WHAT ARE THE BENEFITS OF JOINING A LEARNING COMMUNITY?

- Complete recommended basic skills courses
- Complete most of the transfer courses requirements
- Build a convenient class schedule
- Make friends in multiple classes with the same group of students
- Enjoy small group interaction
- Hear different points of view from more than one instructor
- Reinforce learning in one class while working on projects in the other
- Earn better grades

FREQUENTLY ASKED QUESTIONS

What is different about a Learning Community?

A Learning Community is a group of two or more classes where students and faculty address simultaneously the needs for greater intellectual interaction:



Are the Learning Communities courses transferable?

Many are transferable to the CSU and UC. See the Schedule of Classes or College Catalog to check on specific courses.

What are the requirements to enroll?

You must enroll in all courses. The prerequisites are the same for each course separately. Check the Schedule of Classes.

Are Learning Community courses more difficult?

No, you will be required to do no more work than you would in two separate classes. In fact, by connecting courses, it may actually be easier to understand the material.

How will Learning Community course be listed on my transcript?

Your transcript will reflect the classes as separate courses.

HOW DO I REGISTER?

Log on to www.cerritos.edu, select MyCerritos, and follow the directions. To enroll in a learning community, you must enroll in all courses in the learning community before exiting MyCerritos. To enroll in the FYE program, please call Ext. 2782.

FALCON PHONE

Follow the step-by-step instructions in the Schedule of Classes. Do not forget to enroll in all the courses in the learning community before ending the call or you will not be registered in any learning community course. If you encounter problems registering, try reversing the order in which you enter the class numbers. If you encounter any other problems, please contact the Learning Communities Program Center immediately for assistance. For more information or assistance about enrolling in the Learning Communities Program check the Internet at www.cerritos.edu/lcp or call (562) 860-2451, Ext. 2782.

LEARNING COMMUNITIES PROGRAM WITHDRAWAL POLICY

Student enrolls in a group of two or more courses as part of a learning community. He or she **MUST MEET THE PREREQUISITE(S)**, if there are any, for **EACH** course in the combination. Students enrolled in one section of a course that is part of a learning community must be enrolled in all other courses in that group. If one course is dropped, the student **MUST** and **WILL BE DISENROLLED** from all other courses in that learning community. **THERE ARE NO EXCEPTIONS TO THIS POLICY.**



Scholarship Regulations

FINAL EXAMINATIONS

Instructors at Cerritos College have established their course requirements within the framework of the College's philosophy and requirements.

Final examinations are required in all courses. A schedule for final examinations is posted two (2) weeks in advance of each semester's examination period. Students are expected to take examinations when scheduled; but in the event of an emergency or severe illness, the instructor should be notified.

GRADING

Accomplishment in course work is indicated by the following symbols:

Symbol	Definition Grade	Points
A	Excellent	4
B	Good	3
C	Satisfactory	2
D	Passing, less than satisfactory	1
F	Failing	0
P	Pass (at least satisfactory, the equivalent of a "C"; units awarded not counted in GPA)	0
NP	No Pass (less than satisfactory or failing - units not counted in GPA)	0
I	Incomplete	0
W	Withdrawal	0
*RD	Report Delayed	0

*RD - The RD symbol is used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. RD shall not be used in calculating grade point averages.

GRADE CHANGES

The determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith, or incompetence. The correction of a grade given shall only be allowed for a request initiated within one year following the end of the term in which it was assigned.

Exceptions to the one-year limit on grade changes may be requested by petition of the student in extenuating circumstances. A formal petition must be submitted to the Academic Standards Committee. Extenuating circumstances are verified cases of accident, illnesses, or other circumstances beyond the control of the student. (Title 5, Section 55760).

INCOMPLETE

Students are **not to re-enroll** for a course in which a grade of "I" has been recorded. Incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term may result in an "I" symbol being entered in the student's record. The condition for removal of the "I" shall be stated by instructor in a written record. This record shall contain the conditions for removal of the "I" and the grade assigned in lieu of its removal. This record must be given to the student with a copy on file with the Admissions and Records Office until the "I" is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated, or when

the time limit for completing the work has passed. The "I" must 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.

TRANSCRIPTS OF RECORD

A transcript of all college work completed at Cerritos College may be obtained by submitting a written request in the Office of Admissions and Records. Students requiring an official transcript that bears the college seal must file a written request. Students may obtain an unofficial copy of their transcript for their own personal reference via MyCerritos at www.cerritos.edu. Students who attended prior to 2000 and have not attended since, are not able to use MyCerritos. Official transcripts are still available online at www.cerritos.edu, "Students", "Transcripts".

The first two (2) transcripts (whether official or unofficial) are free. For subsequent copies, a fee of \$2 is charged for each regular transcript; a \$5 fee is charged for each rush transcript (copy needed sooner than three (3) days). The failure by a student to pay proper financial obligation due to the college or district may result in the withholding of grades, transcripts, diplomas, or registration privileges or any combination thereof. (Education Code, section 72237).

VERIFICATION OF STUDENT STATUS FEES

The following are the fees for verification of enrollment:

\$2.00 per verification of status.

\$7.00 additional rush fee per verification to be completed within 48 hours.

Exemptions for these fees are for verification of enrollment and grade point average for the California Student Aid Commission for financial aid purposes.

GOOD STANDING

Students are considered to be in good academic standing with a cumulative grade point average of 2.0 or higher for all course work completed, and the percentage of all units attempted and for which entries of "W", "I", and "NP" are recorded does not reach or exceed 50 percent.

PROBATION

A. Academic Probation

Students who have completed at least twelve (12) semester units as shown by the official academic record shall be placed on academic probation if the students have earned a grade point average below 2.0 in all units undertaken at Cerritos College.

B. Progress Probation

Students who have attempted a total of at least twelve (12) semester units as shown by the official academic record shall be placed on progress probation when the percentage of all units at Cerritos College which the students have attempted and for which entries of "W", "I", and "NP" are recorded reaches or exceeds 50 percent.

Probation is entered on the student's permanent records and transcripts of record. Students placed on academic or progress probation will be notified by mail at the address listed on the official college record.

PROBATION CLEARANCE

- A. Academic Probation Clearance
Students may clear academic probation by earning sufficient grade points to raise the cumulative grade point average to 2.0 or higher in the next semester of attendance. Probation status is not cleared by one semester of 2.0 GPA if it does not raise the cumulative GPA to 2.0 or higher.
- B. Progress Probation Clearance
Students may clear progress probation by decreasing the percentage of "W," "I," or "NP" entries to less than 50 percent of all units in which the students have attempted.

STANDARDS FOR DISMISSAL

- A. Academic Dismissal
Students are subject to academic dismissal when their GPA is less than 2.0 in 12 units or more for two consecutive semesters on academic probation. Students subject to academic dismissal shall be placed on continued probation when their latest semester's GPA is 2.0 or better.
- B. Progress Dismissal
Students who have been placed on progress probation shall be subject to dismissal if the percentage of units in which the students have been enrolled and for which entries of "W," "I," or "NP" are recorded in at least two (2) consecutive semesters reaches or exceeds 50 percent. Students subject to progress dismissal shall be placed on continued probation when for their latest semester no "W," "I," or "NP" entries are recorded.

Students are notified they have been placed on probation shortly after the beginning of the subsequent semester. Dismissal notices are issued before the start of the fall semester. Dismissed students may attend summer session to improve academic deficiencies.

REINSTATEMENT AFTER DISMISSAL

- A. Academic Reinstatement
Students may re-enter the semester following academic dismissal through successful petition to the Academic Records and Standards Committee. However, such students will remain on probation until the accumulated GPA is 2.0 or higher.
- B. Progress Reinstatement
Students may re-enter the semester following progress dismissal through successful petition to the Academic Records and Standards Committee. However, such students will remain on probation until the percentage of "W," "I," or "NP" entries is less than 50 percent of all units in which the students have enrolled.

Petitions must be filed prior to the deadline indicated on the readmission petition.

DISMISSAL FROM CLASS OR COLLEGE

Excessive absences, unsatisfactory academic or progress achievement, undesirable citizenship, or falsification of information supplied to the Office of Admissions and Records shall serve as a basis for dismissal from a class or from the college.

ATTENDANCE

It is the responsibility of students to attend classes regularly and apply themselves to the college studies in which they are enrolled. When students have been absent due to illness, they should report to the instructor in charge to explain the absence. When the hours of absence exceed one more than twice the number of class hours per week, the students are considered to be excessively absent and are subject to exclusion from class.

For summer school, a student is considered excessively absent and subject to exclusion from class when the hours of absence exceed ten percent (10%) of the total class hours.

Listed below are two types of absences which permit the making up of work missed, provided that the work is of such a nature that it can be made up.

1. AUTHORIZED ABSENCE: For an approved educational field trip or school activity.
2. EXCUSED ABSENCE: For illness, injury, or quarantine.
3. JURY DUTY: Serving on jury duty is a civic and expected responsibility. Typically, courts tend to be lenient with students who are pursuing their education. If, however, an active student is required to serve on jury duty, an arrangement must be worked out in such a way that the student, upon presentation of proper documentation will not be penalized with a substandard grade in a course. Should an impasse develop between a faculty member and student, a decision can be appealed to the Dean of Academic Affairs before the final grade is assigned.

NO CREDIT WILL BE GIVEN FOR A CLASS IN WHICH A STUDENT IS NOT OFFICIALLY ENROLLED.

Students must attend the first class meeting. Failure to do so may result in removal of their name from the roll to allow another student seeking admission to enter. If a student is unable to attend the first class meeting, the instructor must be notified.

BASIC SKILLS COURSE LIMITATIONS

No more than a total of thirty (30) units from the pre-collegiate basic skills courses listed below are allowed:

BCOM 46
ENGL 15, 20, 22, 32
MATH 20, 40, 42
READ 41, 42, 43, 44, 46

"Basic Skills course work" refers to pre-collegiate basic skills courses (i.e., courses in reading, writing, computation, learning skills, study skills) which are designated as non-degree applicable courses, the purpose of which is to prepare students for successful completion of associate in arts degrees, transfer, or certificate courses.

As students near this thirty (30) unit limit, they will be notified by the Dean of Academic Affairs and referred to a counselor for educational planning.

Students enrolled in one or more courses of English as a Second Language (ESL) or students identified as having a learning disability are exempt from the thirty (30) unit limitation. A student who has completed thirty (30) units of basic skills course work, shall be barred from registering in pre-collegiate basic skills classes and referred to other appropriate agencies to develop the skills necessary to enter college-level course work.

ACADEMIC RENEWAL REGULATIONS

An Academic Renewal procedure permits alleviation of previously recorded sub-standard ("D," "F," and "NP") academic performance which is not reflective of a student's present demonstrated ability and level of performance. The permanent academic record shall be annotated in such a manner that all work remains legible, ensuring a true and complete academic history.

1. A student may request that up to 30 units substandard course work attempted be annotated and disregarded in the computation of the student's grade point average or requirements for a degree. Only those requested courses with substandard grades will be disregarded.
2. At least twenty-four (24) units of college work from an accredited institution with a grade point average of 2.0 must be completed after the 30 units of course work to be alleviated.
3. A student may be granted academic renewal only once.
4. No alleviated course work shall apply toward degree requirements.
5. In the petition, the student must specify the course(s) to be considered under the academic renewal policy as well as the term in which the course work was attempted.
6. Some senior-level institutions and, possibly, certain out-of-state community colleges do not honor academic renewal. It is the student's responsibility to ensure that his/her transfer institution will approve of academic renewal from Cerritos College.

A student may petition for academic renewal at the Office of Admissions, Records, and Services.

CREDIT BY EXAMINATION

"Credit by Examination" may be granted for proficiency previously accomplished in other than an accredited institution, for experience, study, travel, or for formal service-connected courses essentially equivalent to a course for which credit is being requested. Credit attempted by this method shall be so marked on the student's permanent record on an A-F grading system.

Units and grade points earned shall be counted toward the Associate in Arts degree.

Units earned by "Credit by Examination" are not considered as part of the student's official program and will not be used for reports to Social Security, Veterans Administration, or similar agencies. Non-resident students will not be required to pay a tuition fee.

Students shall petition for "Credit by Examination" through a counselor. Petitioner is to take signed petition to his/her counselor for approval. If counselor approves, the petition must be submitted to the appropriate Instructional Dean for approval. It is the student's responsibility to obtain such approval by the designated deadline. (Deadline dates may vary from department to department. Student should see the department for deadline dates). Results are forwarded to the Instructional Dean and to the Office of Academic Affairs for approval, then to the Office of Admissions and Records for recording.

ELIGIBILITY GOVERNING "CREDIT BY EXAMINATION"

1. The student is currently enrolled at Cerritos College.
2. The course is approved for "Credit by Examination." (See Schedule of Classes for list of approved courses.)
3. Student has met prerequisite(s) for the course.
4. The student has not already received credit for a more advanced course which follows this course in sequence.
5. The student has not previously challenged this course.
6. The course is one for which high school or college credit has not been previously granted, unless there is a course articulation agreement between Cerritos College and an educational institution or agency.

A student may earn up to a maximum of 15 units through "Credit by Examination."

Those students planning to transfer should be advised that credit by exam grades may not be accepted.

PASS/NO PASS COURSES

Title 5, California Administrative Code, permits the granting of credit toward a degree or certificate for courses completed on a pass/no pass basis.

A. Non-Optional:

The courses are graded entirely on a pass/no pass basis. These courses are indicated in the Schedule of Classes. Units earned in such courses shall not be considered as part of the 15 unit limit in the optional pass/no pass policy.

B. Optional:

The option to enroll with the pass/no pass grading option is designed to encourage students to explore courses in which they might have an interest. Only those courses specifically listed by each department may be taken on this basis. Units thus earned may be counted toward the AA Degree, but will be disregarded in determining grade point average.

Courses with the pass/no pass grade option will be indicated on the student's permanent record as "P" with units earned and no grade points or "NP" with no units earned and no grade points. Units attempted for which "NP" is recorded shall be considered in probation and dismissal procedures. The student is required to take all tests, complete all assignments, and shall be subject to withdrawal and attendance regulations. Standards of evaluation are identical for all students. The student shall petition for a pass/no pass grading option through the Admissions and Records Office. Courses selected for pass/no pass grading must be on the approved list which appears in the Schedule of Classes. No more than fifteen (15) units of pass/no pass courses may be completed at Cerritos College, nor may more than fifteen (15) units earned on a pass/no pass basis be applied toward the Associate in Arts degree. Some courses are graded entirely on a pass/no pass basis. These courses are indicated in the Schedule of Classes. Units earned in such courses shall not be considered as a part of the 15 unit limit in the optional pass/no pass policy.

The pass/no pass grading option is available only within the first 30% of the course. Students wishing to change pass/no pass to a letter grade may do so only within the first 30% of courses. See the Schedule of Classes for details and deadlines.

ACCEPTANCE OF TRANSFER COLLEGE CREDIT

A student who presents an official transcript of previous college or university work (other than non-degree applicable course work) in courses comparable to those of Cerritos College may receive credit towards the Associate in Arts degree from Cerritos College. Before credit can be granted, the course work must have been completed at a college or university that is a member of one of the six regional accrediting associations. Official transcripts must be on file with the Admissions and Records Office. Hand-delivered copies of transcripts are accepted provided they are received in a sealed envelope.

Transfer credit from institutions using the quarter system shall be evaluated as follows:

The number of quarter units shall be multiplied by two and divided by three to arrive at the approximate number of semester units. (i.e., 4 quarter units equal approximately 3 semester units.)

Cerritos College is authorized to enroll international students and welcomes applications from such persons. All records of any previous schooling (mark sheets, transcripts, diplomas, certificates, etc.) must be submitted as original documents. These records must show courses taken and grades earned, and must be translated into English if the original records are in another language. If a translation is supplied, it should be certified as accurate and correct by an appropriate public or school official, or sponsoring agency or government. The original record should also be included.

Prior to the application of credit towards the Associate in Arts degree (AA), the international transcript must be submitted to evaluation agencies acceptable to Cerritos College. The college may then choose to accept or not accept the agency's recommendations to award credit towards the Associate in Arts degree.

Since the four-year universities maintain their own individual evaluation staffs, credit from foreign institutions towards the baccalaureate degree is subject to the universities' review.

International students also refer to Admissions of International Students in this catalog and contact the International Student Center at (562) 860-2451, Ext. 2133; Fax (562) 467-5086; or e-mail dkurtz@cerritos.edu.



ADVANCED PLACEMENT EXAM CREDIT

Cerritos College will grant credit for College Board Advanced Placement Examinations. A score of 3, 4, or 5 is required in order to receive units toward the AA degree. The number of units earned through Advanced Placement Exams will be noted on the student's transcript. Credit granted can be used to satisfy Cerritos College general education requirements for the AA degree (Plan A) as follows:

AP Subject	Number of Units	Cerritos College AA G.E. Area
Art: History of Art	3 semester units	6 c. (1)
Art: Studio	3 semester units	Elective credit only
Biology	4 semester units	6 a. (2)
Chemistry	5 semester units	6 a. (1)
Computer Science A	3 semester units	6 d. (2)
Computer Science AB	3 semester units	6 d. (2)
Economics: Macroeconomics	3 semester units	6 b. (3)
Economics: Microeconomics	3 semester units	6 b. (3)
*English: English Language & Composition	3 semester units	6 d. (1)
*English: English Literature & Composition	6 semester units	6 d. (1) and 6 c. (2)
Environmental Science	3 semester units	6 a. (2)
French: French Language	5 semester units	6 c. (2)
French: French Literature	5 semester units	6 c. (2)
German Language	5 semester units	6 c. (2)
Government and Politics: United States	3 semester units	6 b. (3)
Government and Politics: Comparative	3 semester units	6 b. (3)
History: European History	3 semester units	6 b. (3)
History: United States History	3 semester units	6 b. (1)
Latin: Vergil	3 semester units	6 c. (2)
Latin: Latin Literature	3 semester units	6 c. (2)
**Mathematics: Calculus AB	3 semester units	6 d. (2)
**Mathematics: Calculus BC	3 semester units	6 d. (2)
Music Theory	3 semester units	6 c. (1)
Physics B	5 semester units	6 a. (1)
Physics C (mechanics)	3 semester units	6 a. (1)
Physics C (electricity and magnetism)	3 semester units	6 a. (1)
Spanish: Spanish Language	5 semester units	6 c. (2)
Spanish: Spanish Literature	5 semester units	6 c. (2)
**Statistics	3 semester units	6 d. (2)

Students planning to use AP credits toward transfer requirements should consult the transfer institution regarding its policy. Policies do differ at the various colleges and universities. Universities tend to grant credit for all College Board Advanced Placement Tests on which a student scores 3 or higher. The credit may be subject credit, graduation credit, or credit toward general education or breath requirements, as determined by evaluators at each campus. A Cerritos College counselor can help you with your inquiries.

**Also satisfies the Writing Proficiency Requirement for the AA degree.*

***Also satisfies the Mathematics Proficiency Requirement for the AA degree.*

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College Entrance Examination Board (CEEB) offers General and Subject Examinations through the College Level Examination Program (CLEP). The General Examinations measure college-level achievement in five general areas and the material covered is comparable to general education courses at the college freshman and sophomore levels. You may satisfy a significant portion of your general education requirements towards the Associate in Arts degree (Plan A) through CLEP General Examinations. Cerritos College will grant a corresponding number of units of credit for each general examination on which a student scores 500 or higher.

The College Level Examination Program is designed to be a means through which recognition, academic credit, and placement may be given for less conventional forms of educational experience. Those who may have reached a college-level of education through home or correspondence study, on-the-job training, telecourses, military service or other means may take the CLEP examinations which are offered by the College Entrance Examination Board.

A residency of 12 units of satisfactory work must be completed at Cerritos College prior to granting of credit under this program. A maximum of 30 units of credit via CLEP may be credited toward the Associate in Arts degree (Plan A).

Credit for CLEP exams is granted as follows:

General Examination	Units	AA GE Area
*English Composition (with Essay)	6	6 d. (1)
**Mathematics	6	6 d. (2)
Natural Sciences	6	6 a.
Social Sciences	6	6 b. (3)
Humanities	6	6 c.

**Also satisfies the Writing Proficiency Requirement for the AA degree only if the English Composition with Essay is taken.*

***Also satisfies the Mathematics Proficiency Requirement for the AA degree.*

You may not use CLEP to improve a previous grade earned in a course. No credit may be earned by CLEP for any course in which the student has already received a grade.

CLEP credit posted to another institution's transcript is reevaluated based on Cerritos College's standards. Evaluations made and credit allowed by Cerritos College are subject to review and evaluations by any college or university to which the student may later transfer. CLEP credit granted at Cerritos College will not be used to certify general education requirements for transfer. The University of California will not accept CLEP for transfer credit.

Repeating a CLEP examination is governed by a six-month waiting period.

Credit for Subject Examinations may be granted by Cerritos College for scores of 50 or more. The units may be applied in an area of general education and/or the major at the discretion of the college. Requests for general education credit should be submitted to the Admissions and Records Office on a Petition to the Academic Records and Standards Committee. Requests for major credit should be discussed with a counselor.

ACADEMIC HONESTY/DISHONESTY POLICY

Your instructors are eager to help you succeed in your studies at Cerritos College. But success means more than just receiving a passing grade in a course. Success means that you have mastered the course

content so that you may use that knowledge in the future, either to be successful on a job, or to continue on with your education in advanced classes.

Your success depends on a combination of the skill and knowledge of your instructors, and your own hard work. You will reach your future goals only if you gain new knowledge from every course you take. That knowledge becomes yours, and can be used by you, only if it is gained through your own personal efforts. Receiving a grade in a course, without acquiring the knowledge that goes with it, diminishes your chances for future success.

While in college, you are also shaping the principles which will guide you throughout the rest of your life. Ethical behavior and integrity are a vital part of those principles. A reputation for honesty says more about you, and is more highly prized, than simply your academic skills.

For that reason, academic honesty is taken very seriously by the Cerritos College faculty. The following guidelines have been prepared so that you will understand what is expected of you in maintaining academic honesty.

Academic dishonesty is normally to be dealt with as an academic action by the instructor, reflected in the student's grade in the particular course, rather than through college disciplinary procedures.

No specific departmental, divisional or institutional procedures are established for academic dishonesty other than the normal process for review and appeal of an instructor's grading procedures.

Academic dishonesty is defined as the act of obtaining or attempting to obtain credit for work by the use of any dishonest, deceptive or fraudulent means. Examples of academic dishonesty would include, but not be limited to the following:

- Copying, either in part or in whole, from another's test or examination;
- Discussion of answers or ideas relating to the answers, on examination or test when the instructor prohibits such discussion;
- Obtaining copies of an exam without the permission of the instructor;
- Using notes, "cheat sheets," or otherwise utilizing information or devices not considered appropriate under the prescribed test conditions;
- Altering a grade or interfering with the grading procedures in any course;
- Allowing someone other than the officially enrolled student to represent the same;
- Plagiarism, which is defined as the act of taking the ideas, words or specific substantive material of another and offering them as one's own without giving credit to the source.

The faculty member may take options to the extent that the faculty member considers the cheating or plagiarism to manifest the student's lack of scholarship or to reflect on the student's lack of academic performance in the course. One or more of the following actions are available to the faculty member who suspects a student has been cheating or plagiarizing:

1. Review-no action.
2. An oral reprimand with emphasis on counseling toward prevention of further occurrences.
3. A requirement that work be repeated.
4. A reduction of the grade earned on the specific work in question, including the possibility of no credit for the work.
5. A reduction of the course grade as a result of item 4 above, including the possibility of a failing grade for the course.
6. Referral to the Office of Judicial Affairs for further administrative action, such as suspension or expulsion.

Student Services

ASSOCIATED STUDENTS

The Associated Students of Cerritos College (ASCC) provides the governing body that finances, organizes, and directs many programs for the student population. It co-sponsors with the district such activities as touchtone registration, athletics, choir, band, forensics, drama, and student newspaper.

The ASCC student government includes legislative, executive, and judicial branches. Participation in these programs and other campus activities has been a significant part of many students' college experience.

STATEMENT OF STUDENT RIGHTS AND RESPONSIBILITIES

PREAMBLE

The community college exists for the transmission of knowledge, the pursuit of truth, the development of students and the general well being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community students should be encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth and knowledge.

Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus and in the larger community.

Students should exercise their freedom with responsibility so as not to endanger the rights, goals and beliefs of other students. Cerritos College should be open to all qualified students regardless of race, creed, national origin, disability or sex.

CLASSROOM RIGHTS AND RESPONSIBILITIES

The professor in the classroom and in conference should permit free discussion, inquiry and expression of thought by the student. Student performance should be evaluated solely on an academic basis, not on opinions or willingness to accept professors' personal beliefs, or conduct unrelated to academic standards. Student should be free to take reasoned exception to the data or views offered in any course of study for which they are enrolled and for maintaining standards of academic performance established for each course in which they are enrolled. The student has the right to have the course taught in a systematic, meaningful manner and of knowing at the beginning of the course those academic standards required of the student in the course. Administrative staff and faculty members should respect confidential information about students such as student views, beliefs and political associations, which is acquired in the course of their work. Transcripts of academic records should contain only information about academic status.

ON CAMPUS RIGHTS AND RESPONSIBILITIES

Students should be free to examine and discuss all questions of interest to them, and express opinions publicly and privately. They should be free to organize and join associations to promote their common interests. The membership, policies and actions of a student organization will be determined by vote of only those persons who hold bona fide membership in that college organization. Campus advisors shall advise organizations in the exercise of their rights and responsibilities.

Student organizations shall be required to submit a statement of purpose, criteria for membership, rules of procedures, a current list of officers and the advisor shall certify the list of verified members. Campus organizations should be open to all students.

Student and student organizations should be free to support causes by orderly means which do not disrupt the regular and essential operation of the college. Student organizations shall have the right to recommend, invite and to hear any person of their own choosing as long as such speakers and topics are in accordance with federal, state and local laws, and guarantee the safety of students and protection of public property. Guest speakers invited by students or student organizations should be subjected only to those policies, requirements, and regulations as established by the Board of Trustees in order to insure an appropriate and meaningful contribution to the academic community. It should be made clear to the academic community and the larger community that the public expressions of students, student organizations and guest speakers speak only for themselves.

As constituents of the academic community, students should be free, individually and collectively, to express their views on issues of institutional policy, instruction, the evaluation of professors as it pertains to their course content and on matters of general interest to the student body.

IN THE LARGER COMMUNITY

College students are both citizens and members of the academic community. As citizens, students should enjoy the same freedom of speech, peaceful assembly and right of petition that other citizens enjoy. As citizens they should be subject to civil law as others and may incur penalties prescribed by civil authorities when violating these laws. Only where the college's interests as an academic community are distinct and clearly involved should the special authority of the college be asserted.

STUDENT PUBLICATIONS

Student publications and the student press perform the traditional roles of informing, entertaining and influencing. They are both instructional and informational, and as such should meet the highest academic and professional standards in serving the broad college community and should set forth as the primary goal of the student newspaper the coverage of news events, happenings and experiences on the college campus.

Associated Student Body, administrative and academic authorities, in consultation with students and advisors have the responsibility to define and clarify the role of student publications, and the standards to be used in their evaluation.

They must also assure that both academic freedom and editorial freedom are protected and exercised so that the integrity of the student publications program and the free press will not be compromised.

It is incumbent upon student editors and managers to act according to the highest ethics of responsible journalism. This corollary responsibility includes careful adherence to the laws of libel and good taste, and such considerations as the avoidance of indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo and should allow adequate space for rebuttal and differing views in regard to articles in which there is some controversy.

Safeguards to assure freedom of the student press with responsibility should include freedom from censorship or arbitrary control of the press, and protection of editors and managers from arbitrary attack, suspension, or removal because of disapproval of editorial policy or content by any external influence.

Student Grievance Policy

In accordance with the Statement of Student Rights and Responsibilities, this policy describes the procedures by which a student(s) of Cerritos College may air his or her grievances as applied to and regarding academic, administrative, and instructional matters relating to students, and including, but not limited to, any grievance dealing with any academic or management employee of Cerritos College.

A grievance shall herein be defined as any act depriving a student of any of the rights set forth in the statement of "Student Rights and Responsibility," or any State, Federal, or local codes. Grades and grading grievances are not covered by this policy. Students should refer to "Grades or Grading Grievance Policy."

GRIEVANCE PROCEDURE: STEP I - INFORMAL ACTION

- A. The student (or group of students), who believe that an injustice has been done to him (them), shall first attempt to resolve the matter by informal discussion with the employee(s) involved.
- B. If the problem is not resolved in Step I-A, an informal discussion should take place with the person at the lowest level of authority directly above the person(s) at which the complaint is directed.
- C. If the grievant still believes the issue has not been resolved satisfactorily, they may obtain a student grievance form from the Office of Judicial Affairs. After completion of this form, specifying the time, place, nature of the complaint and remedy or correction requested, it should be submitted to the Coordinator of Judicial Affairs who will send a copy of the written statement to the ASCC Supreme Court Chief Justice and the Vice President of Academic Affairs. This statement must be submitted within thirty (30) instructional days after the grievant has become aware of the act or condition on which the complaint is based. An instructional day is defined as any day Monday through Friday that all normal college business is conducted, both in the classroom and in the administrative offices. All weekend days and college holidays are excluded.
- D. The ASCC Supreme Court Chief Justice or Court designee shall attempt to resolve the problem through informal meeting and discussion among the pertinent parties while remaining neutral on all issues involved. This informal meeting and discussion will attempt to involve the levels of management or administration concerned with the problem and should be completed within ten (10) instructional days. In the event the informal procedure fails, then the formal procedure would be implemented.

STEP II - FORMAL ACTION

A. PRELIMINARY

1. If the grievant does not believe the grievance has been resolved, then the grievant must request through the Chief Justice Step II-Formal Action. The Chief Justice, upon receiving the request of the grievant, shall call a meeting of the Student Grievance Hearing Committee. The Hearing Committee will be composed in the following manner:
 - (a) ASCC Chief Justice or designee, and two (2) Court Justices or designees, Vice President of Academic Affairs or administrative designee, Faculty Senate President or Senate designee, and one (1) Faculty Senate member, chosen by the Faculty Senate.
2. The Chief Justice or designee shall serve as the Hearing Committee Chair, but shall have no vote in committee decisions. The five voting members of the Hearing Committee shall be selected within the first six weeks of the academic year. Names selected by the Faculty Senate, ASCC Senate,

and ASCC Cabinet are to be submitted to the Chief Justice. Members of the Committee will serve for an academic year.

3. The Vice President of Academic Affairs or administrative designee shall serve as Hearing Committee Executive Secretary. The Executive Secretary, a voting member of the committee, shall be responsible for keeping necessary records of committee hearings and assist the ASCC Chief Justice in the conduct of the hearing.
4. Grievance Committee members are to deal with all grievances in a confidential manner, except when both parties agree to a public hearing or otherwise required by law.
5. Any party to the grievance may challenge for cause any member of the hearing committee prior to the beginning of the hearing by addressing a challenge to the Hearing Committee Chair. The Chair shall determine whether cause for disqualification has been shown. If the Hearing Committee Chair determines that sufficient grounds for removal of a member of the committee have been presented, the Hearing Committee Chair shall remove the challenged member or members and request a substitute from the original appointing constituent group.

B. FORMAL HEARING

The Hearing Committee shall conduct its proceedings according to the following procedures:

1. The Hearing Committee must meet within fifteen (15) instructional days after informal action has been completed and grievant has requested formal hearing.
2. The Chair must notify the parties involved within five (5) instructional days before the hearing of the date, time, and location of the hearing and must include a copy of the written complaint, a copy of the Statement of Student Rights and Responsibilities, and copy of the Grievance Procedure.
3. Four (4) members shall constitute a quorum by which business may proceed. The quorum must include at least one student member, one faculty member, and one administrative member.
4. Both parties shall have the right to present personal statements, testimony, evidence, and witnesses. Each party shall have the right to be present, to be accompanied by the person of their choice, and to question witnesses who are present.
5. The Hearing Committee shall discuss the charge, hear the testimony, examine the witnesses, and receive all available evidence to the charge.
6. The hearing shall be closed to the public unless otherwise agreed upon in writing by both parties.
7. The Hearing Committee shall make decisions in private. The Hearing Committee shall write up findings and decisions. Copies of findings and decisions, including majority and minority reports, are to be sent to each party and the College President. The Hearing Committee's decision shall be final unless appealed.
8. A recording of the proceedings shall be kept in a confidential file in the Office of Judicial Affairs and shall be available at all times to parties directly involved. All documents, communications, and records dealing with the processing of a grievance will be filed separately from the personnel files of the participants. After a period of four years, the grievance file shall be destroyed.
9. Reprisals of any kind will not be taken by the District or any of its agents against any party of interest or any other participant in the grievance procedure by reason of such participation.

10. Evidence and testimony given in each case presented shall not be the sole cause of initiating or filing further grievances.
11. If the grieved party does not respond within the time limits provided herein, the grievance is considered terminated and no further action will be taken.
12. The number of instructional days indicated at each step herein should be considered a maximum and every effort must be made to expedite the process. Time limits may be extended by mutual consent in writing or by decision of the Hearing Committee.
13. The Hearing Committee should attempt to reach a decision by discussion and consensus on a workable solution. Voting should be a last course of action.
14. If in the course of the proceedings, a student graduates before a solution is found, the student shall not be denied full consideration under this policy. A student may also submit a grievance after graduation if the grievance did not become known until that time. However, it must be submitted within thirty (30) instructional days after the grievant should have reasonably become aware of the act or condition on which the complaint is based.

STEP III - APPEALS PROCESS

1. If either party is dissatisfied with the recommendation of the Hearing Committee, an appeal must be submitted within ten (10) instructional days to the College President/ Superintendent provided the President is not a direct party to the grievance. If the President is a party to the grievance, and either party is dissatisfied with the recommendation of the Hearing Committee, an appeal may be submitted directly to a Vice President, provided the Vice President is not a direct party to the grievance.
2. Upon receiving the findings and recommendations of the Hearing Committee, and after examination of the appeal as requested by either party, the President or alternate may accept or reject the Hearing Committee's decision.
3. If the President or alternate rejects the Hearing Committee's decision, he or she shall submit his/her decision with the stated reasons for objections to the Hearing Committee within ten (10) instructional days. The Hearing Committee shall within ten (10) instructional days reconsider its decision(s) and re-submit them to the President for a final decision.
4. The President shall transmit his final decision to both parties and the Faculty Senate vice chairman or designee within ten (10) instructional days.
5. An appeal of the President's decision may be submitted to the Board of Trustees by either party within five (5) instructional days of the President's decision. The Board may review an appeal for two (2) consecutive regular Board meetings before making a final determination of the matter at the District level.
6. The President or Board of Trustees may change a Hearing Committee's decision only after reviewing a transcription of the hearing.

STUDENT GRADES OR GRADING GRIEVANCE POLICY

In accordance with the Statement of Student Rights and Responsibilities, Section: "Classroom Rights and Responsibilities," this policy describes the procedure by which a student of Cerritos College may present his/her grievance on grades or grading practices.

The California Education Code, Section 76224, quoted below, states clearly the conditions upon which grades or grading can be questioned.

"When grades are given for any courses of instruction taught in a community college district, the grade given to each student shall be determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final."

GRADE GRIEVANCE PROCEDURE: STEP I

A student who believes a final grade received was due to mistake, fraud, bad faith, or incompetency shall meet with the faculty member to resolve his/her concern.

STEP II

1. The student will obtain a grade grievance form from the Office of Judicial Affairs.
2. The student must return the grade grievance form to the Office of Judicial Affairs within thirty (30) instructional days after the completion of the course for which the grievance was filed. An instructional day is defined as any day Monday through Friday that all normal college business is conducted, both in the classroom and in the administrative offices. All weekend days and college holidays are excluded.
3. The Coordinator of Judicial Affairs will meet with the student and review the grade grievance form. If the student wishes to pursue the grievance, the Coordinator of Judicial Affairs will sign and date the form.
4. The student will present a copy of the grade grievance form to the Division Dean. The Division Dean may schedule a meeting of all concerned if appropriate. The Division Dean should schedule a meeting only if the form has the signature of the Coordinator of Judicial Affairs and is dated. The Division Dean shall make a recommendation to the parties within ten (10) instructional days.

STEP III

If either party is dissatisfied with the recommendation of the Division Dean, he/she may appeal the matter to the Vice President of Academic Affairs or designee within ten (10) instructional days of each recommendation. The Vice President of Academic Affairs or designee shall call a meeting with the student, the ASCC Chief Justice, Division Dean, and if needed, the faculty member. The Vice President of Academic Affairs or designee shall make a recommendation to the parties within ten (10) instructional days.

STEP IV

If either party is dissatisfied with the recommendation of the Vice President of Academic Affairs, he/she may appeal the matter to the President of the College within ten (10) instructional days of such recommendation. If a faculty member is dissatisfied with a recommendation and neither acts on it, nor appeals it, the Vice President of Academic Affairs will forward the matter to the President. The President will review the recommendation and if needed, request persons involved in the grievance to meet.

The President shall make a recommendation within ten (10) instructional days. If either party is dissatisfied with the recommendation of the President, an appeal of the President's recommendation may be submitted to the Board of Trustees by either party. The appeal must be submitted within ten (10) instructional days after the President's recommendation. The Board may review an appeal for two (2) consecutive regular Board meetings, and if needed, request persons involved in the grievance to appear before making a final determination of the matter at the District level.

STUDENT CONDUCT POLICY

INTRODUCTION

The California Education Code requires every community college governing board to adopt specific rules governing student behavior along with applicable penalties for violation of such rules.

Students enrolling in Cerritos College assume an obligation to abide by all college regulations.

DISCIPLINARY PROCEEDING

In all disciplinary actions the student should be informed of the nature of the charges against him/her, that he/she is given a fair opportunity to refute them, and that the institution not be arbitrary in its actions.

GROUND S FOR DISCIPLINARY ACTION

A student may be disciplined for one or more of the following causes which must be District related. These categories of behavior are not intended to be an exhaustive list, but are examples of causes and are good and sufficient cause for disciplinary action.

1. Assault, battery, or any threat of force or violence, or causing, attempting to cause, or threatening to cause physical injury to another person.
2. Possession, use, sale, or otherwise furnishing any firearm, knife, explosive, or other dangerous object or chemical, including but not limited to any facsimile firearm, knife, or explosive on District-owned or controlled property or at District-sponsored or supervised functions without the prior authorization of the President/Superintendent or designee.
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. Theft, attempted theft of, or willful damage to District property or property in the possession of, or owned by, a member of the college community or knowingly receiving stolen property or private property on District premises.
6. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the District.
7. Committing sexual harassment as defined by law or by District policies and procedures.
8. Engaging in harassing or discriminatory behavior based on race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, or any other status protected by law.
9. Willful misconduct that results in injury or death to a student or to District personnel or that results in cutting, defacing, or other injury to any real or personal property owned by the District or on campus.
10. Disruptive behavior, continual or willful disobedience and/or persistent defiance of the authority, habitual profanity or vulgarity, or abuse of District personnel or where the presence of the student causes a continuing danger to the physical safety of students or others.
11. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
12. Dishonesty; forgery; alteration or misuse of District documents, records, or identification; or knowingly furnishing false information to the District.
13. Unauthorized entry upon or use of District facilities.
14. Lewd, indecent or obscene conduct on District-owned or controlled property, or at District-sponsored or supervised functions.
15. Engaging in expression that is obscene; libelous or slanderous; or that 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.
16. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
17. 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 Board policy or administrative procedure.
18. Unauthorized use of audio, video or other listening, recording or transmitting device in any classroom, service area or District activity without prior consent of the instructor, service area manager, or activity advisor except as necessary for reasonable accommodation.
19. Sexual assault and/or battery; rape, including acquaintance rape; or physical abuse of another person.
20. Misrepresentation of oneself or of an organization to be an agent of the District.
21. Continued disruption on or off District property of the District's educational or student services activities, administrative functions and procedures, public service functions, authorized curricular or co-curricular activities, other functions, or prevention of authorized guests from carrying out the purpose for which they are on District property.
22. Abuse of any person or any possession of any person, on District-owned or controlled property.
23. Violation of state or local laws, Board policies, or administrative procedures concerning the registration of student organizations, the use of District facilities, or the time, place, and manner of public expression.
24. Abusive behavior directed toward coercion of, or hazing of a member of the college community.
25. Violation of Board policies or administrative procedures governing the use of student user accounts, computers, and telecommunication resources, including but not limited to the unauthorized entry, opening, or viewing of a file, the unauthorized use of another individual's identification and password, sending obscene or abusive messages or files, and/or use of computing facilities to interfere with the work of another student or employee of District.
26. Engaging in physical or verbal disruption, intimidation, or harassment of such severity or pervasiveness as to have the purpose or effect of unreasonably interfering with a student's academic performance, or District employee's work performance, or of creating an intimidating, hostile or offensive educational or work environment.

27. Violation of a duly issued restraining order, stalking, and/or a pattern of conduct with intent to follow, alarm, or harass another person, and which causes the person to reasonably fear for his or her safety, and where the pattern of conduct persisted after the person has demanded that the pattern of conduct cease.
28. Failure to identify oneself when requested to do so by District officials acting in the performance of their duties.
29. Any other cause not listed above which is identified as "Good Cause" by the Education Code or that disrupts the college, its mission, or campus life.

DISCIPLINARY ACTIONS AND PROCEDURES

1. **Official Reprimand** - An admonishment or warning that becomes part of a student's file and is considered in the event of future violations.
 1. May be initiated by any faculty or college manager and sent in writing to the Office of Judicial Affairs.
 2. The Coordinator of Judicial Affairs shall determine if there exists good and sufficient reason to initiate disciplinary action and student should be notified of such actions.
2. **Disciplinary Probation** - Disciplinary action which may include exclusion of the individual from designated co-curricular activities of the college community.
 1. Shall be initiated by the Office of Judicial Affairs.
 2. The nature of the misconduct, dates, time and place, and length of probation shall be placed in writing. Written copies shall be sent to the student, and copies filed with the Office of Judicial Affairs.
3. **Instructor Removal** - Instructor may remove a student from his or her class when the student has interfered with the instructional process. Duration will be for the day of the removal and the next class meeting. The instructor or Division Dean shall immediately report the removal to the Office of Judicial Affairs for appropriate action such as official reprimand, suspension, or recommendation of expulsion.
4. **Suspension** - Is an action defined as exclusion from college for a specified period of time.
 1. Suspensions shall be initiated by the President or designee.
 2. The duration of the suspension from one or more classes shall be for a period of up to ten (10) days of instruction, for the remainder of the academic term, or from all classes and activities of the community college for one or more terms.
 3. There may be an immediate suspension when necessary to protect lives or property and to insure the maintenance of order pending a hearing within ten (10) instructional days.
5. **Expulsion** - Is defined as the removal of a student from any and all classes of the college.
 1. Only the Board of Trustees may expel students for "Good Cause" or when other means of correction fail to bring about proper conduct of a student.
 2. The duration of the expulsion may be indefinite.
 3. The expulsion is noted in the permanent file of the student.
 4. Readmittance after expulsion requires Board action.

HEARING PROCEDURES

According to the Education Code, the suspension or expulsion of a student shall be accompanied by a hearing.

1. **A Hearing Board** shall be responsible to the President for reviewing and making recommendation to the President.
2. **Membership of the Hearing Board** shall include the following:
 1. **A Hearing Board** - Two members of the instructional staff appointed by the Faculty Senate.
 2. **Students** - Two Court Justices appointed by the ASCC Chief Justice.
 3. **Management** - The Coordinator of Judicial Affairs or a member of the management staff of the college appointed by the President. The manager shall serve as the Chairperson of the Hearing Board, but will not vote except to break a tie.
3. **Procedures For a Hearing**
 1. Written notice of a hearing shall be mailed or delivered to the student. A hearing must be held within ten (10) instructional days of the suspension if the suspension is an immediate suspension. An instructional day is defined as any day Monday through Friday that all normal college business is conducted, both in the classroom and in the administrative offices. All weekend days and college holidays are excluded.
 2. Notice shall include date and place of hearing, a statement of all charges, a copy of applicable policies and procedures pertaining to suspension and expulsion, opportunity of student to appear in person, or to employ and be accompanied by counsel, at their own expense, and the opportunity to present evidence, oral and documentary.
 3. Hearings shall be conducted in the manner consistent with the orderly conduct of the affairs of the college, which seems to the Hearing Board most conducive to the determination of the truth.
 4. All hearings shall be tape recorded. Transcriptions and a transcript shall be available at all times to parties directly involved, at their own expense.
 5. Immediately following the hearing, the Hearing Board shall submit the recommendation to the President. The President or designee will make the final decision on the suspension.
 6. The decision of the President to suspend shall be given to the student in writing. The decision of the Board to impose expulsion shall be given to the student in writing within two (2) regular Board meetings.

THE OFFICE OF JUDICIAL AFFAIRS

The Office of Judicial Affairs is responsible for student conduct and disciplinary procedures of the college. Inquiries should be directed to the Coordinator of Judicial Affairs in the Student Activities Office or by calling (562) 860-2451, Ext. 2471.

TITLE IX POLICY

No person shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any "...education program of activity which..." benefits from Federal financial assistance. (Title IX of the Education Amendments of 1972.)

It is the policy of the State of California to afford all persons, regardless of their sex, equal rights and opportunities in the educational institutions of the state. (Education Code sections 200-264.)

In compliance with Title IX, Cerritos College's educational programs and activities are offered to the total Community without regard to sex. Questions regarding Title IX policies affecting the educational program should be directed to the Faculty and Staff Diversity Officer at (562) 860-2451, Ext. 2284.

EQUAL OPPORTUNITY POLICY

Cerritos College believes in a close relationship among students, faculty, staff, and community. The District is strongly committed to achieving staff diversity and the principles of equal opportunity employment. The District encourages a diverse pool of applicants and does not discriminate on the basis of race, color, national origin, ancestry, sex, age, religion, marital status, disability, or sexual orientation in any of its policies, procedures or practices. In fact, the college encourages applications from all segments of qualified people. Questions concerning the application of the policy may be addressed to the Human Resources Office by calling (562) 860-2451, Ext 2284.

SECTION 504/508 AMERICANS WITH DISABILITIES ACT POLICY

Cerritos College supports the idea that no person shall, on the basis of a physical or mental disability, be unlawfully subjected to discrimination by any program or activity offered under the control of the college. Any student, applicant for admission, employee or applicant for employment who believes he or she has been subject to a discriminatory action on the basis of disability may file a complaint through the following procedures. An individual may also file a complaint directly with the Office of Civil Rights.

COMPLAINT PROCEDURE

The complaining party should first discuss the complaint regarding discrimination due to a disability with the individual(s) involved or with the Cerritos College Section 504/508 ADA Coordinator. The 504/508 ADA Coordinator will contact all parties concerned and attempt to reach a resolution. If the complaint cannot be formally resolved within ten working days, the complaining party may then proceed to file a formal complaint. The informal complaint procedure is optional.

STUDENT ORGANIZATIONS

Students are encouraged to participate in campus organizations. Cerritos College offers a variety of campus clubs and organizations for every phase of campus life. They provide opportunities for students in social, service, curricular, and special interest programs.

The club program consists of approximately 60 clubs on campus. Every year new clubs are chartered as they are requested by students.

Every club on campus is a part of the Inter-Club Council which meets regularly to discuss activities, projects and problems pertaining to its members.

Students currently enrolled with a 2.0 G.P.A. may join a club. Information concerning clubs may be obtained in the Office of Student Activities.

The Associated Students also co-sponsors with the District such activities as Athletics, Choir, Band, Forensics, Drama, and Talon Marks.

ATHLETICS

Cerritos College is a member of the South Coast Conference. Cerritos men's teams are represented in: Baseball, Basketball, Cross Country, Football, Soccer, Swimming, Tennis, Track & Field, Water Polo, and Wrestling.

Cerritos women's teams are represented in: Basketball, Cross Country, Soccer, Softball, Swimming, Tennis, Track & Field, Water Polo and Volleyball.

DISABLED STUDENT PROGRAMS AND SERVICES POLICY

Cerritos Community College District affirms its programs and activities are available to all qualified persons without regard to disability. The College is also subject to Sections 504 and 508 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act.

The primary objective of the Disabled Student Programs is accommodations for students with a disability in campus programs and activities to the greatest extent feasible. The ability of each student with a disability to function independently in the collegiate environment is the ultimate goal. Inquiries regarding the Disabled Students Program or the District's non-discrimination policy relative to Sections 504 and 508 should be directed to the Dean of Disabled Student Programs and Services.

DISABLED STUDENT PROGRAMS AND SERVICES

Individuals with a disability may receive support services and instruction from one or more of six programs at Cerritos. Those with mobility, visual, hearing, speech, psychological and other health impairments as well as learning and developmental disabilities are served. The student with a disability seeking admission to Cerritos College must meet these levels of independence: (1) The ability to negotiate the campus facilities independently or with the assistance of an attendant; (2) The ability to take care of personal needs (feeding, toileting) unassisted or to provide one's own attendant; and, (3) The possession of a stable level of health to benefit from a full semester's work.

All students are provided with an initial interview, counseling and referral as needed through Central Intake and Services (C.I.S.). Additional non-classroom related assistance for qualified students includes: registration, campus orientation, accommodated placement tests, elevator pass, parking, learning disability eligibility assessment, matriculation and support with disability management issues. Special instruction and services which are classroom related are provided through the Centers described below. For further information or an initial appointment contact C.I.S. at (562) 860-2451, Ext. 2333, or visit our website at <http://www.cerritos.edu/student-services/dsps/index.html>.

RESOURCE CENTER: The Resource Center assists students with mobility, vision, psychological or other health limitations. The services available include: In-class aides, note taking assistance, tutoring referral, test-taking, disability management, textbooks on tape, liaison with instructors and other campus offices, community agency resource information, referral for special instruction, wheelchair loan and storage, calculator and tape recorder loan, use of modified typewriters and specialized equipment, liaison with the Department of Rehabilitation and other agencies, information and referral to Counseling and Guidance and adaptive physical education classes.

INSTRUCTIONAL SUPPORT CENTER: The Instructional Support Center primarily serves students who are learning disabled, developmentally delayed and those with acquired brain injuries. Services available include: pre-registration, disability management, textbooks on tape, liaison with instructors and other campus offices, tape recorder and calculator loan, liaison with Regional Center and

other agencies. An Independent Mediation Lab providing specialized instruction in approaches to accommodate the limitations of a cognitive disability is also available. The ISC also houses the Assistive Training and Information Center and Alternate Media Production Center for those students in need of alternative text or adapted access to computers. Brailled and large print texts and instruction in screen reader programs such as JAWS and voice activation software such as Dragon Dictate are present at this location. Adapted equipment and software is also located throughout the campus.

SPEECH, LANGUAGE, AND HEARING CENTER: The Speech, Language and Hearing Center offers assistance to those individuals with communication difficulties due to speech, language or hearing impairments. Individual and small group instruction is provided to students having difficulty with articulation, voice, language, aphasia, hearing impairments, and stuttering. Interpreters, notetakers, referral to appropriate services and specialized instruction in the basic skills are also available for the hearing impaired.

RANCHO LOS AMIGOS MEDICAL CENTER: Patients of Rancho Los Amigos Medical Center in Downey may attend college courses at the facility. In addition to assistance in the basic skills of reading, writing and computation, instruction in multi-clerical skills is available. The sessions are held four days per week throughout the year and may be entered at any time. The satellite campus at Rancho is designed for students who are patients of Rancho.

ACCIDENT INSURANCE

Accident insurance is provided by Cerritos College to registered students in the event of an accident or injury during college sponsored and supervised activities. It **may** assist in covering medical bills incurred by students and athletes. There are benefit limitations and some exclusions in the policy, so it is important to work with the Student Health Services staff to insure optimum coverage. Students enrolled at Cerritos College, whose children are injured while using the officially designated childcare facility on campus, are covered by accident insurance. If you have any questions, please contact Student Health Services at (562) 860-2451, Ext. 2321.

HEALTH INSURANCE

Supplemental insurance is available on a voluntary basis for health and hospitalization coverage. Students must contact Student Health Services for insurance information and application.

HEALTH SERVICES

Health services are available to all students currently enrolled at Cerritos College upon proof of enrollment. First aid and referrals are available to all faculty, staff and visitors at no cost. The Student Health Services is staffed by a group of professionals that include physicians, nurse practitioners, registered nurses, medical assistants, and clerical support. They are all dedicated to your health and wellness. The SHS is able to provide basic outpatient services for the diagnosis and treatment of acute and sub-acute illnesses and injuries. A brief overview of services includes urgent care, preventive care, women's and men's health care, as well as, psychological, chiropractic, and optometric services, and a variety of support services (pharmacy, laboratory, health education, etc.). Accident, international student, and supplemental insurances information packets are also available through the SHS. We invite you to visit our website at www.cerritos.edu/health or call (562) 860-2451, Ext.

2321. We are located on the southeast corner of campus and would like to extend an invitation for you to stop in and visit us anytime.

PSYCHOLOGICAL SERVICES

Psychological services and crisis intervention are available for short term therapy to students experiencing emotional problems or concerns. These services are a benefit of your student health fee and are provided by specially trained mental health professionals. Please contact the Student Health Services at extension 2321 for assistance or visit our website at www.cerritos.edu/health.

STUDENT ACTIVITY STICKER AND IDENTIFICATION CARD

A student activity sticker and identification card can be obtained from the Student I.D. Center which is located in the game room between the Food Court and the College Bookstore.

Regular Hours

During fall and spring semesters: 9 a.m. to 1 p.m. and 2 p.m. to 6 p.m., Monday through Thursday. Hours vary during summer sessions. Check the Student Activities website or call the Student I.D. Center.

Extended Hours

During the first week of classes in fall and spring semesters, the Student I.D. Center will be open on Fridays, 9 a.m.-3 p.m.

If a student has special circumstances and cannot be available to obtain the student activity sticker and identification card during any of the hours listed above, arrangements can be made by calling (562) 860-2451, Ext. 2480.

It is important that students be in possession of their Cerritos College identification card at all times while on the campus. This card is necessary for "buy-backs" in the College Bookstore and it is important to present when using the College Library and Student Health Center.

COLLEGE BOOKSTORE

The Cerritos College Bookstore is maintained by the Follett Higher Education Group in association with the ASCC. The store carries required materials, new and used textbooks, reference materials, school supplies, snacks, imprinted gifts and clothing. MasterCard, Visa, American Express, and Discover are accepted. Fall and spring semester regular hours are: 7:30 a.m. – 7 p.m., Monday through Thursday; 7:30 a.m. – 2 p.m., Friday; closed on Saturday and Sunday. Special store hours are in effect during the beginning of classes, graduation, and other special events. Please call the Bookstore at (562) 860-2451, Ext. 2462, for more information.

USED BOOK BUYBACK AT THE BOOKSTORE

The bookstore arranges several formal buybacks during the school year, but will buy back a book anytime throughout the year. The Bookstore shall purchase used textbooks adopted for the next academic term in quantities sufficient to meet course requirements at up to 50% of the purchase price. The Bookstore shall purchase used books not adopted for the next academic term or in excess of course requirements at published national market value.

The Bookstore will accept returns in accordance with the following policies:

1. Non-textbook items in resalable condition may be refunded or exchanged within 48 hours with original receipt.
2. Textbooks in resalable condition may be refunded with receipt within seven (7) calendar days from the start of classes or within two (2) days of purchase thereafter, including during summer term.

3. Textbooks purchased during the last week of classes or during exams may be sold back under the book buyback policy.
4. In addition, upon proof of drop/add, the Bookstore will accept textbook returns from students who have dropped a course up to thirty (30) days from the start of classes or until the end of the official drop/add period, whichever comes first.

BOOKSTORE REFUND POLICY

1. Non-textbook items may be refunded or exchanged within 48 hours with the original receipt, providing the merchandise is in resalable condition.
2. Textbooks may be refunded with receipt within seven (7) calendar days from the start of classes or within two (2) days of purchase thereafter.
3. During the summer term, textbook refunds with a receipt will be given within seven (7) calendar days from the start of classes or within two (2) days of purchase thereafter.
4. Textbooks purchased during the last week of classes or during exams may be sold back under the book buyback policy.
5. In addition, upon proof of drop/add, the Bookstore will accept course material returns (textbooks) from students who have dropped a course up to thirty (30) days from the first day of classes or until the end of the official campus drop/add period, whichever comes first.

Bookstore managers may lengthen refund time periods or allow exceptions to any of the above if circumstances warrant.

FOOD SERVICES

A food court and cafeteria are located in the Student Center. The food court is open Monday through Friday from 7:20 a.m. to 8 p.m.; the Cafeteria is open 11a.m. to 1 p.m. for lunch Monday through Thursday during the fall and spring semesters. Vending machines are located throughout the campus.

CAREER SERVICES CENTER

The Career Services Center offers the following services to assist students in exploring and planning their academic and vocational futures:

- (1) Assessment/Placement Testing
- (2) CalWORKs
- (3) Career Planning
- (4) Re-entry Resource Program
- (5) Student Employment-Job Placement
- (6) Transfer Center

The Career Services Center is located in the Administration Building.

Assessment Testing Center

The Assessment Testing Center administers tests for placement into reading, English, math, and ESL courses. The testing center is located in the Administration Building next to the Career Services Center. Please refer to the Matriculation section of this catalog for further information.

CalWORKs

The Cerritos College CalWORKs Program assists students who are receiving Temporary Assistance to Needy Families (TANF) and are enrolled in a county-approved program of study at Cerritos College. The program provides eligible students with counseling/case management services, educational and career planning, job search assistance, referrals

to campus and community-based organizations, up-to-date information regarding welfare reform, advocacy with Department of Public Social Services, work-study opportunities and assistance with payment for childcare. For more information about the CalWORKs Program, please call (562) 860-2451, Ext. 2356, to make an appointment with a CalWORKs Counselor.

Career Planning

As part of our commitment to student success, the Career Center will assist students who are undecided about their majors and/or their vocational goals. Comprehensive career counseling and information resources are available to aid in that process. The Career Center is located in the Administration Building and is open Monday through Thursday, 8 a.m. to 7 p.m.; and Friday, 8 a.m. to 4 p.m. Call (562) 860-2451, Ext. 2356, for more information.

Re-entry Resource Program

The Re-entry Resource Program assists adults returning to school make a smooth transition, overcome barriers unique to returning adults, and successfully attain their college goals and objectives.

Services include personal assistance, orientations, workshops based on re-entry student issues, support groups, and information regarding child care, financial aid, career counseling, job placement and community resources. Re-entry students of varied ages find these services relevant to their needs and interests.

The Re-entry Resource Program is located in the Career Services Center and is open Monday through Thursday, 8 a.m. to 7 p.m.; and Friday, 8 a.m. to 4 p.m. Call (562) 860-2451, Ext. 2362, for more information.

Student Employment-Job Placement Office

The Job Placement desk, located in the Career Services Center, provides job listings from local businesses, private industry and government agencies to Cerritos College students and alumni seeking employment. Full and part-time listings, as well as internship opportunities, are available for review in the office or can be accessed through the internet at www.monstertrak.com.

Job Placement is open Monday through Thursday, 8 a.m. to 7 p.m.; and Friday, 8 a.m. to 4 p.m. For more information call (562) 860-2451, Ext. 2356; email jobplacement-info@cerritos.edu; or visit www.cerritos.edu/career-services/job-placement.

Transfer Center

The Transfer Center is designed to increase the transfer rate of Cerritos College students to four-year colleges and universities. The Transfer Center has been charged with helping to increase the transfer rate of underrepresented students. The Transfer Center provides information on transfer programs, general education requirements, advising, and personal contact with representatives from colleges and universities. The Transfer Center is located in the Career Services Center. Office hours are 8 a.m. to 7 p.m., Monday through Thursday; and 8 a.m. to 4 p.m. on Friday. Call (562) 860-2451, Ext. 2154, for further information or visit www.cerritos.edu/transfer.

CHILD DEVELOPMENT CENTER

A nationally accredited, state licensed Child Development Center is available for children, ages 2 years and 9 months through Kindergarten. Its purpose is to provide an educational program which helps the individual child grow to his/her fullest potential. The Center focuses on developmentally appropriate activities to foster respect for cultural

diversity by providing multicultural, anti-bias, and non-sexist activities in curriculum. The program features sensory development, language arts, math, science, dramatic play, art, music, fine & gross motor development, and social studies. Registration for the Center takes place each semester on a first-come, first-served basis considering space available, age of child, and readiness for group care. Students, staff and the community may use the Center. Physical examination and T.B. Test results must be available at time of enrollment and cannot be over one year old. Current, up-to-date immunization records must also be available. Students interested in these services should contact the Child Development Center at (562) 467-5051 or 860-2451, Ext. 2583.

FOSTER AND KINSHIP CARE EDUCATION PROGRAMS

Foster and Kinship Care Education programs provide foster parents and relative caregivers with educational workshops to enhance and develop parenting skills related to caring for the children in their care. Emancipated foster youth also have the opportunity to take classes to learn independent living skills.

There are three programs under the Foster and Kinship Care Education umbrella:

- 1) **The Model Approach to Partnership in Parenting (MAPP)** is a 33-hour training conducted for prospective foster parents, as is required by the Department of Child and Family Services (DCFS),
- 2) **Foster & Kinship Care Renewal Courses**, which give foster parents the opportunity to take topical courses, which are required in order to keep the foster parent license,
- 3) **Youth Development Services (YDS)**, is offered to 16-18 year-olds to teach basic living skills. This gives the teenagers the chance to learn the knowledge and skills that they will need in order to live on their own once they leave the foster care system.

All of the classes are free to participants. Classes are mainly held on the Cerritos College Campus. To obtain more information or to register for classes, please contact (562) 860-2451, Ext. 2548.

LIBRARY AND LEARNING RESOURCE CENTER

The Cerritos College Library and Learning Resource Center (LRC), located near the center of the campus, provides a wide range of materials and services. Both students and district residents are invited to use the Center and apply for a library card. Disabled students have easy access throughout the building via ramps and elevators.

Patrons enjoy access to over 100,000 books, 250 magazine and newspaper subscriptions in an open stack arrangement. The online catalog provides access to books, periodicals and reference databases; and Web resources. All library materials are carefully selected by classroom faculty and library faculty as integral to the Cerritos College instructional program. The Reserve Book Area, at the circulation desk, permits students to check out high-demand materials for limited periods of time. A wide range of research guides on topics related to the Cerritos College curriculum are available in print and on the web. Computers for student use are available in the library and two computer labs. Printers are also available.

Instructional Media Services, located on the lower level, provides instructional support for the entire campus as well as satellite locations. Included in this area are graphic arts services, an audio-video production studio, a film booking and video tape center, facilities for maintenance and repair of audio-visual equipment, and an equipment booking and delivery center. Instructional Media also maintains and supervises

several video and closed circuit video systems on the campus.

The Computer Assisted Labs (LC 137) also located on the lower level of the LRC, houses several hundred audio and videotapes and other media materials for students use.

All areas of the Library and Learning Resources Center are staffed with qualified personnel eager to help you. The library is open during the regular school year Monday through Thursday, 7:30 a.m. to 10 p.m., Friday, 7:30 a.m. to 3:00 p.m. The Library is also open 9 a.m. to 3 p.m. on Saturday.

ACADEMIC SUPPORT CENTER

The Academic Support Center (ASC) has been established to serve the needs of faculty and students across the campus. ASC has set out to provide academic support for all levels of students. This is being done by offering tutoring in virtually any subject; by working with instructors to enhance course offerings, including involving instructors with supplemental instruction; by offering a variety of educational measurements to determine specific needs of students; by providing skills-specific workshops designed to help students succeed in their classes; and by providing a wide range of web-based assistance that can help students and instructors.

All services are free to Cerritos College students. The Academic Support Center is located on the lower level of the Learning Resource Center. Call (562) 860-2451, Ext. 2407, for additional information.

STUDENT RECORDS

Directory Information in Compliance with the Family Educational Rights and Privacy Act (FERPA)

Cerritos College will not release personal data about students without their prior written consent except to persons and agencies authorized by law. The college may make an exception to legitimate inquiries, by providing general directory information to include: name • major field of study • class level • dates of attendance • degrees and awards received • participation in officially recognized activities and sports • weight and height of members of athletic teams, and previous educational institutions attended.

Student Records Consent

Cerritos College may permit access to student records to any person for whom the student has executed written consent specifying the records to be released and identifying the party or parties to whom the records may be released. Such consent must be signed and dated by the student. The recipient must be notified that the transmission of the information to others is prohibited. Title 5 (California Administrative Regulations) Section 54616.

SEXUAL ASSAULT AND ACQUAINTANCE RAPE POLICY

Cerritos College is committed to providing a safe and secure environment for all members of the campus community. The Sexual Assault and Acquaintance Rape policy is in accordance with Assembly Bill 3098 and Section 201, Public Law 101-542 as amended by Public Law 102-26. Sexual assault and acquaintance rape are crimes and will be treated as such. Students and employees who become victims of sexual assault or acquaintance rape are encouraged to report the crime immediately to the Campus Police. The college is dedicated to providing prompt and compassionate services to all crime victims. In the event of a sexual assault on campus, the chief of Campus Police will notify the President/Superintendent.

SEXUAL HARASSMENT

It is the policy of the Cerritos Community College District to provide an educational, employment and business environment free of unwelcome sexual advances, requests or offers for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by federal and state statutes.

The President/Superintendent shall provide regulations and procedures for implementation of this policy and such regulations and procedures shall be included as a part of the District's Affirmative Action/Staff Diversity Program.

It shall be a violation of this policy for anyone who is authorized to recommend or take personnel or academic actions affecting an employee or student, or who is otherwise authorized to transact business or perform other acts or services on behalf of the Cerritos Community College District, to engage in sexual harassment as defined below.

Sexual harassment occurs when unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature takes place and:

1. Is made explicitly or implicitly a term or condition of an individual's educational status or employment; or
2. Is used as a basis for educational or employment decisions affecting such individual; or
3. Has the purpose or effect of unreasonably interfering with an individual's work performance or creating an intimidating, hostile, or offensive educational or working environment; or
4. Is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the District.

For the purpose of further clarification, sexual harassment includes but is not limited to:

1. Making written, verbal, physical and/or visual contact with sexual overtones:
 - a. written examples include but are not limited to suggestive or obscene letters, notes, or invitations.
 - b. verbal examples include but are not limited to derogatory comments, slurs, jokes, epithets and/or promulgating sexual rumors.
 - c. physical examples include but are not limited to assault, touching, impeding or blocking movement.
 - d. visual examples include but are not limited to leering, gestures, or display of sexually suggestive objects, pictures, cartoons or posters.

2. Continuing to express sexual interest after being informed that the interest is unwelcome. (Reciprocal attraction is not considered sexual harassment.)
3. Making reprisals, threats of reprisals, or implied threats of reprisals following a negative response. For example:
 - a. within the work environment - either implying or actually withholding support for an appointment, promotion, or change of assignment, suggesting a poor performance report will be prepared, or suggesting probation will be failed.
 - b. within the educational environment - either implying or actually withholding grades earned or deserved, suggesting a poor performance evaluation will be prepared, or suggesting a scholarship recommendation or college application will be denied.
4. Within the work environment, engaging in implicit or explicit coercive sexual behavior which is used to control, influence, or affect the career, salary, and/or work environment of another employee. Within the educational environment, engaging in implicit or explicit coercive sexual behavior which is used to control, influence, or affect the educational opportunities, grades, and/or learning environment of a student.
5. Offering favors or educational or employment benefits, such as grades or promotions, favorable performance evaluations, favorable assignments, favorable duties or shifts, recommendations, reclassifications, etc. in exchange for sexual favors.

It shall also be a violation of this policy for any employee to sexually harass another employee.

Formal complaints under this policy shall be processed through the District's Investigation and Resolution of Complaints of Unlawful Discrimination procedure through the Manager of Employment Services/Faculty and Staff Diversity Officer and the President/Superintendent.



Honors and Awards

HONOR GRADUATES

The honor graduates are identified by the silver tassel they wear on their cap. Graduates who achieved a 3.3 to 3.69 grade point average will graduate "With Honors." Those receiving a 3.70 to 4.0 will graduate "With Highest Honors."

Only units earned at Cerritos College may be used in computing the grade point average for honor graduates. To be considered for honor status a minimum of 24 units must be earned at Cerritos College. If you are a Spring or Summer graduate, your honors for Commencement are based on your GPA up to and including the previous Fall semester.

DEAN'S LIST

Full-time students with 12 units earned or more of college-level courses in a single semester and who achieve a 3.5 grade point average or higher within those units earned will qualify for the Dean's List.

ACADEMIC EXCELLENCE AWARDS

The Cerritos College Foundation annually sponsors an awards program for those students selected for outstanding academic achievement from the various subject matter areas on campus.

Academic honors are awarded to students who do outstanding work in their major field of study. Students must show promise, possess a current Associated Student Body card, have above average grades, and be recommended by the instructors in their major field.

ASSOCIATED STUDENTS AWARDS

The Associated Students offer a number of honors and awards to students for outstanding leadership, service, and academic achievements.

Service and Leadership Awards

The Gold and Silver Falcons are the highest and most prestigious awards that are given to students for service, leadership and scholarship each semester.

Bronze Falcons are awarded to students who excel in leadership and participation in programs sponsored by the Associated Students of Cerritos College.

Service Certificates are awarded in recognition of service and participation in programs sponsored by the Associated Students of Cerritos College.

Club/Organization Awards

Clubs and organizations are recognized and honored for their service and participation in various programs. The Associated Students also recognizes and rewards various activity groups on campus, such as Intercollegiate Athletics, Band, Forensics, *Talon Marks*, Theatre, Choir, Pep Squad, and Honor Society.

Athletic Awards

The Associated Students of Cerritos College has an excellent athletic awards system for all intercollegiate athletics. This recognition is in the form of banquets, letters, certificates, key chains, plaques, and lifetime passes.



Student Financial Aid

Cerritos College administers comprehensive student financial aid programs to assist students in meeting college costs. The amount of financial aid awarded varies from student to student, depending on the individual's need and resources.

Financial aid awards are based on calculated financial need as determined by the Free Application for Federal Student Aid (FAFSA).

The Financial Aid Office is part of Student Support Services and is located in the Administration building. Office hours are Monday through Thursday, 8 a.m. – 7 p.m., and Friday, from 8 a.m. – 4 p.m.

Financial aid applications are available year round. The Cerritos College Student Financial Aid Title IV Institutional Code is 001161. Students applying for Federal financial aid must have a high school diploma, GED, or pass the "Ability to Benefit" test.

When applying for financial aid, students may be required to submit official academic transcripts from ALL colleges/universities attended. These transcripts will be forwarded to the Office of Admissions and Records. Without this information, a delay may occur in the completion of a student's file, or be cause to close a student's file.

The Financial Aid Office will pay for units enrolled up to 70 units. Once a student reaches the 70 unit level, a student is no longer eligible for financial aid. However, a student may appeal and submit a "lock-in-list" to the Financial Aid Advisory Committee (FAAC). If the "lock-in-list" is approved, Financial Aid will only pay for courses on that list. Again, it is important to have ALL academic transcripts sent to the college and evaluated as soon as possible because it may affect a student's financial aid eligibility.

It is suggested that students take the assessment test, complete the financial aid supplemental forms, and schedule an appointment with an academic counselor to prepare a pre-plan each semester. Students must also enroll in courses recommended by their counselor, which lead to a certificate, associate degree, or transfer major. A 2.0 cumulative grade point average must be maintained for all college work to be eligible for financial aid. Students must also complete 75% of all courses enrolled. All students on financial aid are given a satisfactory academic standards booklet. It is the students' responsibility to read and understand information in the Financial Aid Satisfactory Academic Progress (SAP) Standard booklet.

Since the application process is a lengthy one, students should plan ahead to have sufficient funds to cover fees, books, and supplies.

Pell Grant checks are mailed two times a semester to students. Disbursements will take place (approximately) in the fourth and fifteenth week of the fall and spring terms.

For additional information on financial aid, students are encouraged to visit the financial aid website at www.cerritos.edu/finaid or contact the Financial Aid Office at (562) 860-2451, extension 2397.

FEDERAL PROGRAMS

Federal Pell Grants are awarded to eligible undergraduate students. The amount of money awarded is based upon a student's Expected Family Contribution (EFC), the number of units enrolled, and the cost of attendance.

Approximately four weeks after a student has mailed his/her application, a Student Aid Report (SAR) should arrive at your home. Students must contact the Financial Aid Office to initiate their file.

Federal Supplemental Educational Opportunity Grant (FSEOG) is a campus-based program with limited funding. This program is awarded by the school on a "first-come, first-served" basis. Students must have a zero EFC and be enrolled in six units in order to be considered for this grant.

Federal Work Study (FWS) is a campus-based program with limited funding which provides employment to help pay for part of a student's educational costs. This program is based on financial need and, if awarded, is part of a student's award package. Students on FWS may work up to 15

hours per week on or off campus. Students are assigned to a work site by the FWS coordinator.

Academic Competitiveness Grant (ACG) is a federal program that is awarded to students who have completed a rigorous high school program of study. To be eligible, students must be (1) enrolled in the first or second academic year of an AA degree or transfer program, (2) enrolled full-time, (3) a U.S. Citizen, and (4) a Pell grant recipient. The ACG 1st year award is \$750 (\$375 per semester) and the ACG 2nd year award is \$1,300 (\$650 per semester). First year ACG recipients must have completed a rigorous secondary school program of study after January 1, 2006. Students must have a 3.0 GPA for the second year ACG and have completed a rigorous secondary school program of study after January 1, 2005. To apply, students must submit a Free Application for Federal Student Aid (FAFSA) and proof of completion of a rigorous program of study (high school transcripts, College Board results, and/or high school diploma with state seal).

Federal Subsidized and Unsubsidized Stafford Loans must be repaid. Although these loans are made through lending institutions such as a bank, a student must apply for financial aid first. Once a student receives a financial aid award letter, the student may apply for a student loan. The amount of loans range from \$3,500 to \$4,500 per academic year.

To be eligible for the \$4,500 loan, a student must have at least 30 units completed and these units MUST appear on the student's official academic transcript at Cerritos College. Loan amounts will be determined at the time the Financial Aid Office certifies a loan application.

Both entrance/exit counseling are requirements of the Federal Family Educational Loan Program (FFELP). Students must maintain at least half-time enrollment status to receive a loan. Once a student receives loan funds, the student must maintain reasonable progress toward a certificate, associate degree, or transfer major.

Any student who is interested in the second loan, the Stafford Additional Unsubsidized loan (\$4,000), must be an independent student and appeal to the Financial Aid Advisory Committee (FAAC). Appeal forms are available at the Financial Aid Office or on the financial aid website. In reviewing a request for any loan, the FAAC may use "professional judgment" to deny a student a loan on a case-by-case basis. If denied a loan, a student will receive a letter from the Financial Aid Office indicating the reason(s) for the loan denial.

RETURN OF TITLE IV FUNDS

Federal aid recipients who withdraw or are dropped from ALL classes by the instructor are subject to new regulations regarding the Return of Title IV funds. Students who withdraw or are dropped from all classes prior to completing more than 60% of the enrollment period are subject to these rules. Based on the date of the complete withdrawal or drop, the Financial Aid Office will determine the amount, if any, of "unearned" federal financial aid received by the student. The calculation will begin by determining the percentage of the enrollment period completed by the students as follows:

$$\frac{\text{Number of days completed}}{\text{Total number of days in the semester}}$$

The result will equal the percentage of the enrollment period completed. The amount of federal financial aid that was paid or could have been paid to the student will be based on this percentage. If the student received more financial aid than the amount earned, the student will be billed for the overpayment. Financial aid recipients should be cautioned to (1) avoid total withdrawal from all classes, (2) successfully complete at least one class during the semester, and (3) repay any "unearned" financial aid as soon as possible to regain eligibility for financial aid.

In cases where a student receives all "F" grades, the student will be billed up to 50% of their aid until the student can provide documentation that the "F" grade was earned.

Any aid recipient who needs to withdraw from all classes should contact the Admissions and Records Office and the Financial Aid Office. Recipients are encouraged to discuss alternatives to withdrawing from class(es) with their instructor(s) or a counselor before making a final decision.

Title IV funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded.

GRANT OVER-AWARDS

There are occasions when students receive financial aid payments based upon misreported information. This results in a grant over-award. Examples of misreported information include inaccurate or omitted income, prior loan defaults or grant overpayments, having a B.A. degree, not having a high school diploma or GED, forged signatures, and unsatisfactory academic progress, just to name a few.

Students who receive grant funds due to misinformation as noted above are required to repay THE ENTIRE SUM RECEIVED.

STATE PROGRAMS

The Cal Grant Program is a state funded educational opportunity program to assist students in paying for a college education. There are entitlement awards as well as competitive awards. Application deadlines are in early March and September for community college students.

All basic Cal Grant eligibility requirements are as follows: a) be a California resident, b) be a U.S. citizen or eligible non-citizen, c) meet U.S. Selective Service requirements, d) attend a qualifying California postsecondary institution, e) be enrolled at least half-time, f) maintain satisfactory academic progress as defined at the school of attendance, g) have family income and assets below the established ceilings, h) not be in default on any student loan, i) not owe any federal or state grant refund, and, j) not have a bachelor's or professional degree before receiving a Cal Grant (except for extended Cal Grant A or B awards for a teaching credential program).

Cal Grant A Entitlement Awards are for students who plan to attend a four-year college or university and are based on academic achievement as well as financial aid need. You may apply for a Cal Grant A while you are attending Cerritos College. If you are awarded one, you may place it on reserve until you transfer to a four-year college. This grant is renewable for up to three years, provided you remain eligible. Cal Grant A pays all or a portion of tuition and fees at your designated four-year institution. Cal Grant A provides no funds for books, living costs, transportation expenses and provides no funds for fees at the community college.

Cal Grant B Entitlement Award requirements state that every graduating high school senior who has at least a 2.0 GPA, meets all the Cal Grant requirements and applies by March 2 within one year of graduating (or receiving their GED) is guaranteed a Cal Grant B Entitlement award. This Entitlement Award provides up to \$1,551 for books and living expenses for the first year. Beginning with the second year of Cal Grant B benefits, this award also helps pay for tuition and fees at public or private four-year colleges or other qualifying institutions.

Cal Grant C Awards are available to assist students with tuition, fee, and training costs for occupational or vocational programs. The \$576 Cal Grant C award provides for books, tools, and equipment. To qualify for Cal Grant C awards, students must meet basic eligibility requirements and be enrolled in a vocational program that is at least four months in length. For more information, visit the California Student Aid commission website at www.casc.ca.gov.

California Community College Transfer Entitlement Awards: Students who meet financial and basic eligibility requirements, have a minimum 2.4 GPA from a California Community College, and graduated from high school in 2000-01 or later are eligible for this award when

transferring from a community college to a four-year institution. This Entitlement award is offered to California Community College students who were not awarded a Cal Grant within a year of graduating from high school, but meet certain requirements at the time of transfer from a California Community College to a qualifying institution offering baccalaureate degree programs.

Extended Opportunity Program and Services (EOPS) is a State funded program to provide educationally and economically disadvantaged students assistance, which includes grants, EOP nomination waivers, admission waivers to UC and CSU, and transfer assistance. Moreover, the EOPS Program provides a number of retention programs such as Supplemental Instruction (SI), and learning communities in the Achievement in Mathematics (AIM) program, and Summer Bridge program. All three programs involve social and academic integration activities for students outside of the classroom. Courses in these programs are taught by a faculty member and faculty counselor.

Admission into the EOPS Program requires that a student meet either BOGG A or B standards, complete a FAFSA application, enroll in 12 units, and meet with an EOPS counselor three times during each semester, and have earned less than 70 degree applicable units from ALL colleges/universities attended.

EOPS/CARE Grant is available to students who are current recipients of TANF, CalWORKs, single, head of household, have at least one child under the age of 14, enrolled in 12 units or more, and have been admitted into the EOPS Program. Students wishing to enter the program must attend a Mini-Conference/Orientation and workshops and may be eligible for a grant and/or service.

Board of Governors Grant (BOGG) is a program that provides assistance to cover community college enrollment fees. To be eligible, a student must be a California resident and must qualify under one of the following conditions:

1. Student or parent must currently be receiving Temporary Assistance for Needy Families (TANF), Supplemental Security Income (SSI) or General Relief. Documentation is required; or
2. Student must meet income standards based on family size. Documentation is required; or
3. Student must have already applied for FAFSA and demonstrated financial need.

SCHOLARSHIPS

Scholarships are like grants; they do not have to be repaid. The Financial Aid Office is the steward of a number of scholarships that may or may not require financial need. Applications are available in the Financial Aid Office. For information on scholarships, visit cms.cerritos.edu/financial-aid/programs/scholarship.

OFFICE OF VETERANS AFFAIRS

The Office of Veterans Affairs offers information regarding applications and certification for benefits for those eligible for Montgomery G.I. Bill, Selected Reserve, VEAP, Vocational Rehabilitation, or Survivors and Dependents of deceased or disabled veterans.

Staff is available to provide help with processing applications and to do check inquiries to the Veterans Administration. Veterans must maintain academic progress as outlined in the college catalog. In order to receive benefits, veterans must declare a major and will only be paid for classes required for that major as designated by the veterans academic counselor.

Please go to the Veterans Affairs website at www.cerritos.edu/veterans/vet-hours.html to view the service hours. Service hours vary each semester. You may also call (562) 860-2451, Ext. 2120, for information. The Veterans Affairs Office is located within the Admissions and Records Office in the Administration Building.

Associate in Arts Degree Graduation Requirements

The California Community College Board of Governors has authorized the Cerritos College Board of Trustees to confer the Associate in Arts Degree. A candidate does not automatically receive the Associate in Arts Degree upon completion of unit and course requirements, but is required to file a petition for the degree.

College education is usually thought of as consisting of two parts, specialized education and general education. Specialized education is that which prepares the student for vocational competence or for scholastic attainment in a particular field. This the student accomplishes through the department major.

General education, on the other hand, is that which meets the common goals of all students for personal enrichment and cultural development. Work in this area helps the student increase individual ability as a citizen and improve community, home, and family living.

Although courses may be designed with one or the other of these purposes as the primary gain, all courses are presented with the values of general education in mind. College education then becomes the sum total of all the student's experience in college, and the student's education may be completed in both these areas and be granted the degree of Associate in Arts.

STATEMENT OF PHILOSOPHY FOR GENERAL EDUCATION COURSEWORK

Cerritos College offers an array of general education coursework to students so that they may learn concepts and methods of inquiry that have breadth, depth and relevance to their lives. The general education curriculum includes coursework from the liberal arts, humanities, science, mathematics, arts and social sciences disciplines. Possession of knowledge from these disciplines will contribute to personal growth, professional development and citizenship by increasing students' awareness of the past and present by developing their creative, adaptive and critical thinking abilities. The general education curriculum will provide students with opportunities to:

- Develop a lifestyle that will enhance physical and mental health and wellness
- Develop logical and cogent arguments, reaching conclusions that are based on comprehensive inquiry
- Adapt and apply technology to facilitate the acquisition and effective use of information
- Communicate clearly and proficiently through both oral and written expression
- Enhance the appreciation of artistic offerings
- Become informed citizens and problem-solvers to deal with current and future societal issues
- Appreciate the contributions of different cultures, eras and traditions to the human experience
- Develop an appreciation for the value of ethics, integrity, honesty, self-management and the welfare of others

REQUIREMENTS FOR THE ASSOCIATE IN ARTS DEGREE:

SCHOLARSHIP AND RESIDENCE

- A. A student must complete 60 units of degree applicable work with an overall grade point average of "C" or better (2.0) in all courses.
- B. A student must achieve a grade point average of "C" or better (2.0) in all course work attempted that is counted for the major.
- C. A minimum of 12 units of degree applicable work must be completed at Cerritos College.

PETITION FOR ASSOCIATE IN ARTS DEGREE

1. Students desiring an Associate in Arts Degree must file a "Petition for Associate in Arts Degree" form. The petition may be obtained in the Counseling Center and must be submitted before the deadline posted in the College schedule of classes. The petition must be approved and validated by a counselor and the Admissions and Records Office before the degree will be granted.
2. Students not in continuous attendance at Cerritos College must meet degree requirements for graduation in effect at the time of readmission.
3. A student is considered in continuous attendance if he/she receives a grade (A, B, C, D, E, F, P, NP, I or W) in any semester, fall or spring, during each academic year. Continuous attendance is not broken at Cerritos College if a student transfers to another accredited institution, maintains his/her continuous attendance at that institution, and returns to Cerritos College to complete his/her degree. (Designated programs may require students to return to Cerritos College in good standing. Please check with the Counseling Center regarding these programs.)
4. Credit toward the Associate in Arts Degree is not granted for non-degree applicable units or classes taken as part of the Adult Education Program.

STUDENTS WITH BACCALAUREATE DEGREES

Those students who have been awarded a bachelor's degree from an accredited college or university in the United States will be exempt from the Cerritos College general education breadth requirements and the proficiency requirements, should they pursue an associate in arts degree at this institution. Please see your counselor if additional information or clarification is desired.

ADDITIONAL ASSOCIATE IN ARTS DEGREES

Once an AA degree has been obtained, an additional AA degree may be obtained by meeting the following conditions:

1. Complete a minimum of seventy-eight (78) units - eighteen (18) degree applicable units beyond the minimum required for the first AA degree. The minimum 78 units must meet the requirements in a different major curriculum. All general education requirements in effect at the time continuous attendance began must be met.
2. If some or all of the major curriculum requirements for the second AA degree were met in the first AA degree and the minimum seventy-eight (78) degree applicable units is not achieved, then additional courses will be planned with a counselor to make-up the difference as described in the procedures. The general education requirements must be met which were in effect at the time continuous attendance began.
3. Upon completion of the required course work, follow the "Petition for Graduation" procedures as detailed for the first AA.
4. Additional AA degrees may be granted for each eighteen (18) degree applicable additional units completed. For example a third AA degree may be earned upon the completion of a minimum of ninety-six (96) units. The requirements to obtain additional degrees are the same as those stated above for a second AA degree.

COMMENCEMENT

Commencement exercises are held once a year at the end of the spring semester for all students-for those who were graduated at midyear, those graduating at the end of the spring semester, and those who expect to complete requirements for graduation in the summer session.

Cerritos College Associate in Arts Degree

Requirements for the Associate in Arts degree at Cerritos College can be met in one of three different ways: Plan A, B or C.

PLAN A is designed primarily for those students interested in preparing for a vocational career upon graduation. Plan A may also be used by university transfer students and for students in vocational majors who may possibly wish to transfer in the future. However, there are courses listed under Plan A that are not transferable for general education credit to the four-year universities. Therefore, students wishing to use this option should see a Cerritos College counselor for advice in selecting the AA General Education plan that in combination with a major will best match their educational and career goals. Please see the Plan A degree description page for further details.

PLAN B is designed primarily for students who will transfer to a CSU campus and are not interested in attending a University of California campus. Students may use this plan to combine completion of both the Associate in Arts general education requirements, and the California State University (CSU) General Education Certification pattern. Students should see a counselor for advice on selecting the AA General Education plan that in combination with a major will best match their educational and career goals. Please see the Plan B degree description page for further details.

PLAN C is designed primarily for students who intend to transfer to the University of California, or who are undecided between transferring to the University of California or the California State University. Students may use this plan to combine completion of both the AA degree general education requirements and the Intersegmental General Education Transfer Curriculum (IGETC) requirements. Plan C may not be recommended for some majors at certain CSU or UC campuses. Please see the Plan C description page for further details.

The significant differences between Plan A, Plan B and Plan C are:

PLAN A requires the completion of a minimum of 18 units of identified general education courses and requirements and a minimum of 18 units of specified “major” courses, proficiency requirements and electives, if necessary, to total a minimum of 60 degree applicable units.

PLAN B requires a minimum of 39 units of identified CSU general education courses and requirements plus specified lower-division major preparation, the health and wellness proficiency requirement, and elective courses, if necessary, for a minimum of 60 degree applicable units.

If a student only wishes to transfer at an upper division level and is not seeking an AA degree, a minimum of 60 CSU transferable units is required. (See transfer requirements for CSU)

PLAN C requires a minimum of 34 (UC) or 37 (CSU) units of identified general education courses and requirements plus specified lower-division major preparation courses, the health and wellness proficiency requirement, and electives, if necessary, to total a minimum of 60 degree applicable units.

If a student only wishes to transfer at an upper division level and is not seeking an AA degree, a minimum of 60 UC transferable units is required. (See IGETC and UC transfer requirements.)

There are important differences among the three plans. In order to select the plan that best meets each individual's AA and transfer goals, students should see a Cerritos College counselor.



Associate in Arts Degree for General Education 2008-09 Plan A Degree and/or Career Option

A total of 60 degree applicable units including the following requirements must be completed to qualify for the AA degree:

1. MAJOR PROGRAM REQUIREMENTS:
Complete all requirements for the chosen major program under "Major Requirements" in the Cerritos College Catalog.
2. MATHEMATICS PROFICIENCY REQUIREMENT:
This requirement can be met by one of the following options:
 - a. Earn a score on the Intermediate Algebra Readiness test sufficient for placement in a course above the level of MATH 60 or
 - b. Completion of MATH 60, CIS 52 or TM 50 with a grade of Credit or "C" or higher, or
 - c. For other options, see your counselor
3. READING PROFICIENCY REQUIREMENT:
 - a. The reading proficiency requirement is met by successfully completing the Reading Proficiency Test at the 12th grade level. The Reading Proficiency Test may be taken no more than once each semester.
 - b. The reading proficiency requirement may be met by completing READ 54 with a grade of "C" or better.
 - c. For other options, see your counselor
4. WRITING PROFICIENCY REQUIREMENT:
Completion of ENGL 52 or ENGL 155 or BCOM 147 with a grade of "C" or better, or completion of ENGL 100 with a grade of "C" or better.
5. HEALTH AND WELLNESS PROFICIENCY REQUIREMENT:
This requirement can be met by one of the following options:
 - a. Completion of at least one unit of a Physical Education activity course from the approved department list below:
Physical Education 120, 121, 122, 123, 124, 125, 126, 130, 131, 132A, 132B, 133, 134, 135A, 135B, 136, 137, 138, 139, 141, 142, 143, 145, 146, 148, 149A, 149B, 150A, 150B, 151, 153A, 153B, 154A, 154B, 155A, 155B, 156A, 156B, 158A, 158B, 159A, 159B, 160, 170, 171A, 171B, 171C, 172A, 172B, 173, 175A, 175B, 176A, 176B, 177, 178, 179A, 179B, 200, 201, 202, 204, 206, 207, 208, 210, 211, 212, 213, 217, 219, 221, 222, 223, 225, 227, 228, 229, 231, 233, 234, 235, 236, 238, 239, 241, 243, 245, 254, 255
Dance 105, 106A, 106B, 107, 108A, 108B, 109, 110, 120, 121, 125, 130, 133, 134, 135, 136, or
 - b. Completion of HED 100, 101, 103, or 200; TH 140-143; MUS 160-164; HO 100, 151 or 152; CDEC 161; PE 100; or WS 103.
 - c. Enrollment and completion of Allied Health program (DA, DH, RN, PTA, PHARM TECH, MA)
 - d. For other options, see your counselor

6. GENERAL EDUCATION REQUIREMENTS: PLAN A 18 UNITS
 - a. NATURAL SCIENCES: 3 UNITS MINIMUM FROM EITHER PHYSICAL SCIENCE OR BIOLOGICAL SCIENCES
 - (1) Physical Sciences
Astronomy 101, 102, 103, 104, 105L (lab), 106
Chemistry 100 (lab), 110 (lab), 111 (lab), 112 (lab)
Earth Science 101, 102 (lab), 104, 104L (lab), 106, 110 (lab)
Energy 110
Geography 101, 101L (lab), 103
Geology 101 (LAB), 201 (lab), 204, 207 (lab), 208, 209
Physical Science 100, 112 (lab)
Physics **50 (lab), 100 (lab), 101 (lab), 102 (lab), 201 (lab), 202 (lab), 203 (lab)
 - (2) Biological Sciences
Anatomy and Physiology 120 (lab), 130 (lab), 150 (lab), 151 (lab), 200 (lab), 201 (lab)
Anthropology **110, 115, 115L (lab)
Biology 105, 110 (lab), 115 (lab), 120 (lab), 200 (lab), 201 (lab)
Botany 120 (lab)
Microbiology 200 (lab)
Psychology 241
Zoology 120 (lab)
 - b. SOCIAL AND BEHAVIORAL SCIENCES: 3 UNITS MINIMUM

NOTE: Completion of a U.S. history or government course which fulfills the California State University requirement taken at any accredited institution may be used in lieu of the course requirement.

One course from Section b1 or b2 is required.

- (1) History 101, 102, 103
(This requirement can be met by receiving a score of 3 or better on the College Board's Advanced Placement Exam, American History, or the College Board's College Placement Test, American History and Social Studies. Unit credit is awarded for passing the AP exam option with a score of 3 or better.
- (2) Political Science 101 or 201
(This requirement can be met by successfully passing the College Board's Advanced Placement exam. Unit credit is awarded for passing the Advanced Placement exam option with a score of 3 or better.)
- (3) Social and Behavioral Sciences
Administration of Justice 101
Anthropology 100, 120, 170, 200, 201, 202, 203, 205
Business Finance 125
Child Development 110
Child Development/Early Childhood **113
Counseling and Guidance **150, 200
Economics 101, 102, 201, 202, 204
Environmental Policy 200

Geography 102, 105
 History 110, 120, 204, 210, 220, 221, 230, 235, 241, 242,
 245, 246, 250, 255, 260, 265, **270, 275
 Journalism 100
 Physical Education 106
 Political Science 110, 210, 220, 230, 260
 Psychology 101, 150, 251, 261 271
 Sociology 101, 110, 120, 201, 202, 210, 215, **225, 230,
 250
 Speech 110
 Women's Studies 101, 106, 202, 204, 205, 206

c. FINE ARTS AND HUMANITIES: 3 UNITS MINIMUM
 FROM EITHER FINE ARTS OR HUMANITIES

Note: Courses appearing in more than one category may
 be used to satisfy only one category. Such courses are
 marked with an *.

(1) FINE ARTS

Architecture **110, 112
 Art 100, 101, 102, 103, 104, 105A, 105B, 106, 107, *108,
 *109, 110, 116, 120, 130A, 144, 150, **186, **192, 193
 Dance 100, 101
 Humanities: *108, *109
 Music 100, 101, 102, 103, 104, 104B, 105
 Photography 100, 160
 Theatre 101, 102, 103, 104, **110, 150, RTV151/TH
 151, RTV 152, TH 159

(2) HUMANITIES

Art *108, *109
 Chinese 101
 English 102, 106, 221A, 221B, 222, 223, 224, 225, 226,
 227, 228, 230A, 230B, 232, 233, 234, 235, 236, 237, 245,
 246A, 246B, 248A, 248B
 French 101, 102, 201, 202, 203
 German 101, 102, 201, 202
 Humanities 100, *108, *109
 Japanese 101, 102, 201, 202
 Philosophy 100, 102, 104, 200, 201, 204, 206
 Sign Language 101, 102, 201
 Spanish 101, 102, 111, 112, 201, 202, 206, 210, 245
 Speech 140, **145
 Women's Studies 102

d. LANGUAGE AND RATIONALITY: 6 UNITS MINIMUM
 Select at least three units from Section D1 and three units
 from Section D2:

(1) ENGLISH COMPOSITION

English **52, 100, **155
 Business Communication **147

(2) COMMUNICATION AND ANALYTICAL THINKING

Business Communication **148
 Computer and Information Sciences **52, **101,
 **102, **103, **178
 Engineering Design Technology **131
 English 101, 103
 Mathematics **60, **70, **80, **80A, 100, 110A,
 110B, 112, 114, 115, 116, 140, 150, 170, 190, 220, 240
 Philosophy 103, 106

Psychology 103, 210

Reading 200

Speech **60, 100, 120, 130, 132, 150, 235, ** 271

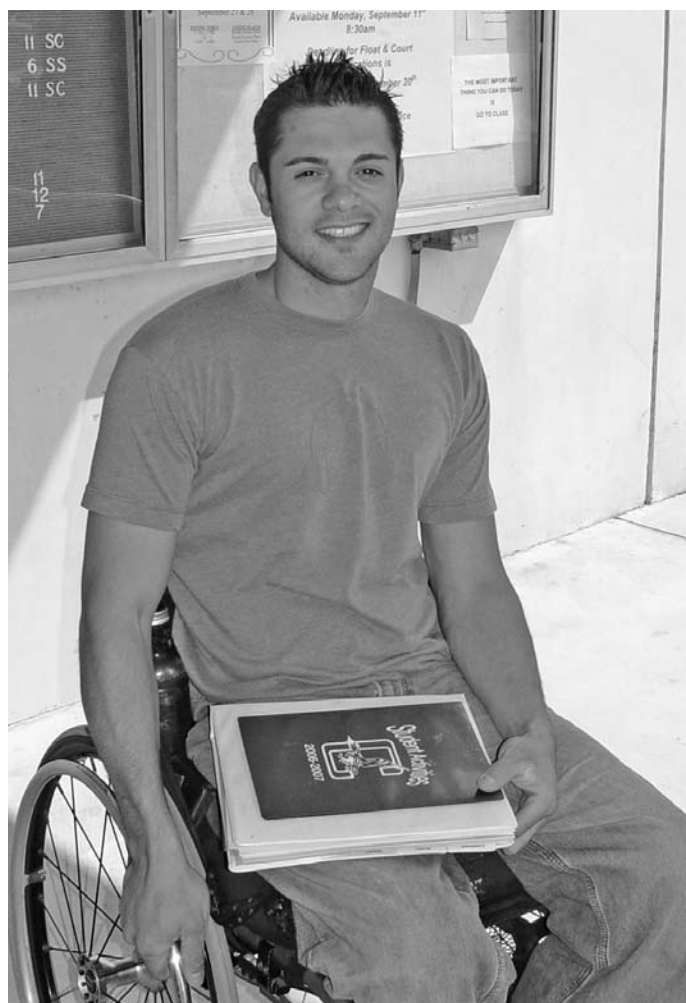
Technical Mathematics **50

- e. Select an additional course from general education
 courses from those listed above or a course from Plan B
 or Plan C so that the earned general education units total
 at least 18.

* These courses appear in more than one category, but may
 only be counted once.

** These courses do not meet the General Education
 Requirements for CSU or IGETC.

NOTE: The preceding graduation requirements apply to students
 who were in attendance during the 2008-09 school year and
 thereafter. Students who enrolled prior to Fall 2008 and who have
 maintained continuous attendance at Cerritos College have the
 option of meeting the current requirements or those in effect at the
 time continuous attendance began.



Associate in Arts Degree for General Education 2008-09 Plan B CSU General Education Requirements

Plan B is designed primarily for students who will transfer to a California State University (CSU) campus and are not interested in attending a University of California campus. Students may use this plan to combine completion of both the Associate in Arts general education requirements and the CSU General Education Certification pattern. Students should see a counselor for advice on selecting the AA General Education plan that in combination with a major will best match their educational and career goals.

To earn an Associate in Arts Degree using Plan B, students must complete a minimum of 60 degree applicable units with an overall grade point average of "C" (2.0) or which must include the specified general education requirements and designated courses for a major. The Health and Wellness Proficiency requirement must be completed.

If a student wishes only to transfer and is not seeking an AA degree, there are no proficiencies required for CSUGE certification.

It should be noted that completion of the CSU General Education Certification is not required for admission to the CSU nor is it the only way to fulfill the lower division general education requirements. Depending upon the student's major, it may be advantageous to complete the requirements of the specific campus the student plans to attend.

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION CERTIFICATION REQUIREMENTS

A maximum of 39 units is required to fulfill the CSU lower division general education requirements, with the units to be distributed as follows: Nine (9) units in Area A; nine (9) units in Areas B, C and D, with no more than 30 units total in areas B through D combined; and three (3) units in Area E.

A letter grade of "C" or better is required in Oral Communication, Written Communication, Critical Thinking, and Mathematical Concepts.

Note: Courses appearing in more than one category may be used to satisfy only one category. Such courses are marked with an *.

A. Communications: 9 units minimum.

Must take one course from category 1, 2, and 3

1. Oral Communication
Speech 100, 120, 130, 132, 150
2. Written Communication
English 100
3. Critical Thinking
English 101, 103, Philosophy 103, 106, Psychology 103, Reading 200, Speech 235

B. Natural Science and Mathematics: 9 units minimum. Take a course from category 1, 2 and 3. AT LEAST ONE LABORATORY (LAB) MUST BE INCLUDED IN CATEGORY 1 or CATEGORY 2.

1. Physical Sciences
Astronomy 101, 102, 103, 104, 105L (lab), 106
Chemistry 100 (lab), 110 (lab), 111 (lab), 112 (lab)
Earth Science 101, 102 (lab), 104, 104L (lab), 106, 110 (lab)
Energy 110
Geography 101, 101L (lab), 103
Geology 101 (lab), 201 (lab), 204, 207 (lab), 208, 209
Physical Science 100, 112 (not considered a LAB science for CSU GE)
Physics 100 (lab), 101 (lab), 102 (lab), 201 (lab), 202 (lab), 203 (lab)
2. Biological Sciences
Anatomy and Physiology 120 (lab), 130 (lab), 150 (lab), 151 (lab), 200 (lab), 201 (lab)
Anthropology 115, 115L (lab)
Biology 105, 110 (lab), 115 (lab), 120 (lab), 200 (lab), 201 (lab), 202
Botany 120 (lab)
Microbiology 200 (lab)
Psychology 241
Zoology 120 (lab)
3. Mathematical Concepts
Mathematics 100, 110A, 110B, 112, 114, 115, 116, 140, 150, 170, 190, 220, 240
Psychology 210

C. Fine Arts and Humanities: 9 units minimum.

Take one course in category 1 and 2. The third course may be taken in either category.

1. Fine Arts
Architecture 112
Art 100, 101, 102, 103, 104, 105A, 105B, 106, 107, *108, *109, 110, 116, 120, 130A, 144, 150, 193
Dance 100, 101
Humanities *108, *109
Music 100, 101, 102, 103, 104, 104B, 105
Photography 100, 160
Theatre 101, 102, 103, 104, 150, RTV 151/TH 151, RTV 152, TH 159
2. Humanities
Art *108, *109
Chinese 101
English 102, 106, 221A, 221B, 222, 223, 224, 225, 226, 227, 228, 229, 230A, 230B, 232, 233, 234, 235, 236, 237, 245, 246A, 246B, 248A, 248B
French 101, 102, 201, 202, 203
German 101, 102, 201, 202
History *101, *102, *103, *110, *120, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Humanities 100, *108, *109
Japanese 101, 102, 201, 202
Philosophy 100, 102, 104, 200, 201, 204, 206

Sign Language 101, 102, 201
Spanish 101, 102, 111, 112, 201, 202, 205, 206, 210, 245
Speech 140
Women's Studies 102

D. Social Sciences: 9 units minimum.

Take one course in category 1, 2 and 3.

1. American History
History *101, *102, *103
(Any one of these courses meet the requirement in U.S. History)
2. American Government
Political Science 101, 201
(Either of these courses meet the requirement for Constitution and American Ideals)
3. Social, Political, Historical and Economic Institutions
Administration of Justice 101
Anthropology 100, 120, 170, 200, 201, 202, 203, *205
Child Development *110
Economics 101, 102, 201, 202, 204
Geography 102, 105
History *110, *120, 204, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Journalism 100
Physical Education *106
Political Science 110, 210, 220, 230, 260
Psychology 101, *150, 251, 261, 265, 271
Sociology 101, *110, *120, 201, 202, 210, 215, 230, 250
Speech 110
Women's Studies 101, *106, 202, 204, *205, 206

E. Self-Development: 3 units minimum.

Take one course from the following:

Anthropology *205
Business Finance 125
Child Development *110
Counseling and Guidance 200
Health Education 100, 101
Health Occupations 152
Physical Education *106, 141
Psychology *150
Sociology *110, *120
Women's Studies *106, *205

* These courses appear in more than one category, but may be used only to satisfy one category.

NOTE: Changes in the above General Education requirements may occur from time to time. If courses are added to or deleted from the pattern, it may affect a student's selection of courses. Students do not have catalog rights to a certification pattern, regardless of their continual attendance status.

CSU Transfer credit is noted in individual catalog course descriptions. A complete list of CSU transferable course offered by Cerritos College can be found on ASSIST website at www.assist.org.



Associate in Arts Degree for General Education 2008-09 Plan C Intersegmental General Education Transfer Curriculum (IGETC) For Transfer to UC and CSU

Plan C is designed primarily for students who intend to transfer to the University of California (UC) or are undecided between transferring to the UC or the California State University (CSU). Students may use this plan to combine completion of both the AA Degree general education requirements and the IGETC General Education requirements.

The purpose of IGETC is to provide an option for students to fulfill lower division general education requirements prior to transferring to a UC or CSU campus.

Depending upon the student's major and campus choice, it may be advantageous to complete the requirements of the specific campus the student plans to attend. In general, it is not advisable for transfer students preparing for majors at any UC campus requiring a high number of units, such as engineering and science, to use IGETC.

Plan C can be fulfilled by completing the IGETC requirements specified for either the UC or CSU.

A letter grade of "C" or better is required in all Plan C courses.

To earn an Associate in Arts degree using Plan C, students must complete a minimum of 60 degree applicable units with a grade point average of "C" (2.0) or better which must include the specified general education requirements and designated courses for a major. The Health and Wellness Proficiency requirement must be completed.

If a student wishes only to transfer and is not seeking an AA degree, there are no proficiencies required for IGETC certification.

It should be noted that completion of IGETC is not required for admission to the UC or CSU.

Further information and other regulations pertaining to IGETC and the Associate in Arts Degree are found in the catalog.

AREA 1 ENGLISH COMMUNICATION

CSU: Courses from A, B, and C required.

UC: Courses from A and B required.

- A) ENGLISH COMPOSITION
(1 course, 3 semester/4-5 quarter units)
English 100
- B) CRITICAL THINKING-ENGLISH COMPOSITION
(1 course, 3 semester/4-5 quarter units)
English 101, 103
Philosophy 103
Psychology 103
Speech 235
- C) ORAL COMMUNICATION (CSU ONLY)
(1 course, 3 semester/4-5 quarter units)
Speech 100 +, 120, 130, 132+

AREA 2 MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

(1 course, 3 semester/4-5 quarter units)

Mathematics 100, 112+, 114+, 115, 116+, 150+, 170+, 190, 220, 240

Psychology 210+

AREA 3 ARTS AND HUMANITIES

(3 courses, with at least one from A and one from B below;
9 semester/12-15 quarter units)

- A. ARTS
Architecture 112+
Art 100, 101, 102, 103, 104, 106, 107, *108, *109
Dance 100, 101
Humanities *108, *109
Music 100, 101, 103, 104, 104B, 105
Photography 160
Theatre 101, 102, 103, 104, 150, 159
- B. HUMANITIES
Art *108, *109
English 102, 106, 221A, 221B, 222, 223, 224, 225, 226, 227, 228, 230A, 230B, 232, 233, 234, 235, 236, 237, 245, 246A, 246B, 248A, 248B
French 201, 202
German 102, 201, 202
History *101+, *102+, *103+, *110, *120, *210+, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Humanities 100, *108, *109
Japanese 102
Philosophy 100, 102, 104, 200, 201, 204, 206
Sign Language 201
Spanish 102+, 112+, 201, 202, 205, 210, 245
Women's Studies 102

AREA 4 SOCIAL AND BEHAVIORAL SCIENCES

(3 courses from at least two disciplines or an interdisciplinary sequence: 9 semester/12-15 quarter units)

Anthropology 100, 120, 170, 200, 201, 202, 203, 205
Child Development 110
Economics 101+, 102, 201, 202
Geography 102, 105
History *101+, *102+, *103+, *110, *120, 204, *210+, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Physical Education 106
Political Science 101+, 201+, 210, 220, 230
Psychology 101, 150, 251, 261, 271
Sociology 101, 110, 120, 201, 202, 210, 215, 250
Speech 110
Women's Studies 101, 106, 202, 204, 205, 206

AREA 5 PHYSICAL AND BIOLOGICAL SCIENCES

(2 courses, one from A and one from B below; at least one course must include laboratory (lab); 7-9 semester/9-12 quarter units)

A. PHYSICAL SCIENCES

Astronomy 101, 102+, 103+, 104, 105L (lab) 106
 Chemistry 100+ (lab), 110+ (lab), 111 (lab), 112 (lab)
 Earth Science 101, 102 (lab), 104, 104L (lab), 106, 110+ (lab)
 Geography 101, 101L (lab), 103
 Geology 101+ (lab), 201 (lab), 207 (lab), 208, 209
 Physical Science 100+
 Physics 100+ (lab), 101+ (lab), 102+ (lab), 201+ (lab), 202+ (lab), 203+ (lab)

B. BIOLOGICAL/LIFE SCIENCES

Anatomy and Physiology 120+ (lab), 130+ (lab), 150+ (lab), 151+ (lab), 200+ (lab), 201+ (lab)
 Anthropology 115, 115L (lab)
 Biology 115 (lab), 120+ (lab), 200 (lab), 201 (lab), 202
 Botany 120 (lab)
 Microbiology 200 (lab)
 Psychology 241
 Zoology 120 (lab)

* These courses appear in more than one category, but may be used only to satisfy one category.

ADDITIONAL REQUIREMENTS

A) UC ONLY: Language other than English

There are several ways to satisfy this requirement. They include:

- Complete two years of the same foreign language in high school with a grade of "C" or better.
- Complete first college course in any foreign language or SL 101.
- Earn a minimum score of 500 on an appropriate College Board Achievement Test in a foreign language.
- For other options, see your counselor.

B) CSU ONLY: The CSU has a specific American Institutions requirement that is separate from the general education requirements. Courses used to meet the American Institutions requirement may be used to satisfy requirements for the IGETC, at the discretion of the receiving CSU campus. It is recommended that this requirement be met prior to transfer. The following will meet the CSU American Institutions requirement.

6 units, one course from Group 1 and one course from Group 2.

Group 1: History 101+, 102+, 103+

Group 2: Political Science 101+, 201+

C) The UC-bound student should be aware of the American history and institutions requirements at the campus of choice. Requirements do vary. See your counselor for details.

+Credit limitation. UC credit limitations may apply for certain courses in IGETC, as well as other UC transferable courses which are not in IGETC. An explanation for each course which has credit limitations appears in the college catalog course description. For details, see your counselor.



Transfer Requirements

Students planning to transfer to a four-year college or university should bear in mind that admission and subject requirements will vary from school to school. Consequently, students planning to transfer should study carefully the requirements set forth in the catalogs and brochures of the institutions which interest them. Such publications may be obtained directly from the colleges and universities. A large number of websites allow students to access such information via the Internet. Many of these links are available at the Transfer Center website, www.cerritos.edu/transfer. In addition to offering transfer information to public and private colleges and universities statewide and nationally, we are continuing our efforts to obtain articulation agreements for transferring to Historically Black Colleges and Universities (HBCU's). To assure that appropriate transfer course work is being undertaken at Cerritos College, students should plan to communicate regularly with a counselor.

THE CALIFORNIA STATE UNIVERSITY TRANSFER REQUIREMENTS

Lower Division Transfer Requirements—If you have completed fewer than 60 transferable semester (90 quarter) units, you will qualify for admission if you have a grade point average of 2.0 (C) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet the admission requirements for first-time freshmen, i.e., you have completed with a grade of “C” or better each of the courses in the comprehensive pattern of college preparatory subject requirements and have a qualifiable eligibility index. If you did not complete all the subject requirements in high school, appropriate college courses may be used to make up the missing subjects. Nonresidents must meet the eligibility index for nonresidents. NOTE: Not all California State Universities accept lower division transfers. Please go to www.csummentor.edu to find out more.

Upper Division Transfer Requirements—Completion of at least 60 transferable semester (90 quarter) units, a grade point average of 2.0 (C) or better in all transferable units attempted (nonresidents must have a grade point average of 2.4), and in good standing at the last college or university attended. In addition, you must have completed at least 30 semester (45 quarter) units of college courses with a grade of C or better in each course to be selected from courses in English, arts and humanities, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements. The 30 general education semester (45 quarter) units (Plan B/Plan C) must include ENGL 100, oral communication, critical thinking, and transferable mathematics with a minimum prerequisite of intermediate algebra.

Test Scores—Freshman and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit scores, unless exempt, from either the Scholastic Aptitude Test (SAT) of the College Board or the American College Testing Program (ACT). If you are applying to an impacted program and are required to submit test scores, you should take the test no later than December if applying for fall admission.

Registration forms and dates for the SAT or ACT are available from school or college counselors or from a campus testing office. Or you may write to:

The College Board (SAT)	American College Testing Program (ACT)
Registration Unit, Box 592	Registration Unit, P.O. Box 168
Princeton, New Jersey 08541	Iowa City, Iowa 52240

TOEFL Requirement: All undergraduate applicants, regardless of citizenship, who have not attended schools at the secondary level or above for at least three years where English is the principal language of instruction must present a minimum score of 500 or above on the Test of English as a Foreign Language. Some campuses may require a score higher than 500.

Transcripts: Final official transcripts must be submitted prior to enrollment to verify that all required coursework has been completed successfully. CSU campuses will either delay admission or not permit registration or attendance until receipt of final transcripts.

Freshman: The campus to which you are applying will provide information about when to submit your official high school transcript. Transcripts must be received in sealed envelopes directly from the high school from which you graduated.

Transfers: Request that official transcripts be sent directly from all colleges or universities previously attended even if no coursework was completed. Transcripts must be received in sealed envelopes from each institution attended. You should keep personal copies of all transcripts and test scores to complete the admission application and for academic advising sessions.

GENERAL EDUCATION REQUIREMENTS FOR THE BACHELOR'S DEGREE AT THE CALIFORNIA STATE UNIVERSITY

The California Administrative Code, Title 5, relating to the State University general education-breadth requirements authorizes Cerritos College to present to the students a maximum 39-unit pattern of general education courses which is acceptable for the Bachelor Degree requirements at the State University.

Cerritos College is further authorized to certify the partial or complete fulfillment of these requirements. Cerritos College Level Examination Program (CLEP) credit granted at Cerritos College will not be used to certify general education requirements for transfer. Credits from International Transcripts granted at Cerritos College will not be used to certify general education requirements for transfer.

Students may elect to fulfill the general education requirements by following the Cerritos College pattern or the pattern specified by the State University of their choice.

Students in all major fields of study must complete the same pattern of general education requirements. It is strongly recommended that students complete as many units of these requirements as possible during their freshman and sophomore years at Cerritos College so that they can concentrate on major specialization in the upper division.

In general, four-year colleges accept at full unit value approved transfer courses completed with satisfactory grades in the public Community Colleges of the state. However, in most instances a maximum of 70 community college semester units (105 quarter units) can be transferred for credit toward a degree at the senior institution.

STATE UNIVERSITY GENERAL EDUCATION CERTIFICATE REQUIREMENTS

A maximum of 39 units is required to fulfill the CSU lower division general education requirements, with the units to be distributed as follows: Nine (9) units in Area A; nine (9) units in Areas B, C, and D, with no more than 30 units total in areas B through D combined; and three (3) units in Area E.

A letter grade of "C" or better is required in Oral Communication, Written Communication, Critical Thinking, and Mathematical Concepts.

NOTE: Courses appearing in more than one category may be used to satisfy only one category. Such courses are marked with an *.

A. COMMUNICATIONS: 9 units minimum.

Must choose **one course** from category 1, take **one course** in category 2 and choose **one course** from category 3.

1. ORAL COMMUNICATION

Speech 100, 120, 130, 132, 150

2. WRITTEN COMMUNICATION

English 100

3. CRITICAL THINKING

English 101, 103, Philosophy 103, 106, Psychology 103, Reading 200, Speech 235

B. NATURAL SCIENCE AND MATHEMATICS: 9 units minimum.

Choose **one course** from category 1, **one course** from category 2, and **one course** from category 3. **AT LEAST ONE LABORATORY (LAB) MUST BE INCLUDED IN CATEGORY 1 or CATEGORY 2.**

1. PHYSICAL SCIENCES

Astronomy 101, 102, 103, 104, 105L (LAB), 106
Chemistry 100 (LAB), 110 (LAB), 111 (LAB), 112 (LAB)
Earth Science 101, 102 (LAB), 104, 104L (LAB) 106, 110 (LAB)
Energy 110
Geography 101, 101L (LAB), 103
Geology 101 (LAB), 201 (LAB), 204, 207 (LAB), 208, 209
Physical Science 100, 112 (not considered a LAB science for CSU GE)
Physics 100 (LAB), 101 (LAB), 102 (LAB), 201 (LAB), 202 (LAB), 203 (LAB)

2. BIOLOGICAL SCIENCES

Anatomy and Physiology 120 (LAB), 130 (LAB), 150 (LAB), 151 (LAB), 200 (LAB), 201 (LAB)
Anthropology 115, 115L (LAB)
Biology 105, 110 (LAB), 115 (LAB), 120 (LAB), 200 (LAB), 201 (LAB), 202
Botany 120 (LAB)
Microbiology 200 (LAB)
Psychology 241
Zoology 120 (LAB)

3. MATHEMATICAL CONCEPTS

Mathematics 100, 110A, 110B, 112, 114, 115, 116, 140, 150, 170, 190, 220, 240
Psychology 210

C. FINE ARTS AND HUMANITIES: 9 units minimum.

Choose **at least one course** from category 1 and **at least one course** from category 2.

1. FINE ARTS

Architecture 112
Art 100, 101, 102, 103, 104, 105A, 105B, 106, 107, *108, *109, 110, 116, 120, 130A, 144, 150, 193
Dance 100, 101
Humanities *108, *109
Music 100, 101, 102, 103, 104, 104B, 105
Photography 100, 160
Theatre 101, 102, 103, 104, 150, RTV 151/TH 151, RTV 152, TH 159

2. HUMANITIES

Art *108, *109
Chinese 101
English 102, 106, 221A, 221B, 222, 223, 224, 225, 226, 227, 228, 229, 230A, 230B, 232, 233, 234, 235, 236, 237, 245, 246A, 246B, 248A, 248B
French 101, 102, 201, 202, 203
German 101, 102, 201, 202
History *101, *102, *103, *110, *120, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Humanities 100, *108, *109
Japanese 101, 102, 201, 202
Philosophy 100, 102, 104, 200, 201, 204, 206
Sign Language 101, 102, 201
Spanish 101, 102, 111, 112, 201, 202, 205, 206, 210, 245
Speech 140
Women's Studies 102

D. SOCIAL SCIENCES: 9 units minimum.

Choose **one course** from category 1, **one course** from category 2, and **one course** from category 3.

1. AMERICAN HISTORY

History *101, *102, *103
(Any one of these courses meets the requirement in U.S. History)

2. AMERICAN GOVERNMENT

Political Science 101, 201
(Either of these courses meets the requirement for Constitution and American Ideals)

3. SOCIAL, POLITICAL, HISTORICAL AND ECONOMIC INSTITUTIONS

Administration of Justice 101
Anthropology 100, 120, 170, 200, 201, 202, 203, *205
Child Development *110
Economics 101, 102, 201, 202, 204
Geography 102, 105
History *110, *120, 204, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Journalism 100
Physical Education *106
Political Science 110, 210, 220, 230, 260
Psychology 101, *150, 251, 261, 271
Sociology 101, *110, *120, 201, 202, 210, 215, 230, 250
Speech 110
Women's Studies 101, *106, 202, 204, *205, 206

E. **SELF-DEVELOPMENT:** 3 units minimum.

Choose **one course** from the following:

Anthropology *205
Business Finance 125
Child Development *110
Counseling and Guidance 200
Health Education 100, 101
Health Occupations 152
Physical Education *106, 141
Psychology *150
Sociology *110, *120
Women's Studies *106, *205

NOTE: Changes in the above General Education requirements may occur from time to time. If courses are added to, or deleted from the pattern, it may affect a student's selection of courses. Students do not have catalog rights to a certification pattern, regardless of their continual attendance status.

Please consult a counselor for any changes which may have occurred in the general education pattern, or if you have questions.

CSU Transfer credit is noted in individual catalog course descriptions. A complete list of CSU transferable course offered by Cerritos College can be found on the ASSIST website at www.assist.org.

UNIVERSITY OF CALIFORNIA TRANSFER REQUIREMENTS

The University considers you a transfer applicant if you graduated from high school and enrolled in a regular session at another college or university. You can't disregard your college record and apply as a freshman.

If you plan to attend a California community college before applying to the University, you should take courses that are transferable, that satisfy University and college requirements, and that fulfill prerequisites in your major. Advisors in the Admissions Office at the campus you wish to attend and community college counselors can help you with your planning.

The University publishes a booklet especially for transfer applicants called Answers for Transfers. It is available at the Transfer Center located in Career Services in the Administration building.

CALIFORNIA RESIDENTS

There are basically three ways in which you can meet the University's minimum admission requirements for transfer students. These requirements are described below.

***Residency Status:** The requirements for bonafide California residents also apply to dependents of University of California graduates and employees. The manner in which legal residence is defined for tuition purposes is different. If you have questions about your residency status, contact the Admissions or Registrar's Office at the campus you wish to attend.

1. If you were eligible for admission to the University when you graduated from high school—meaning you satisfied the Subject,* Scholarship, and Examination Requirements—you are eligible to transfer if you have a "C" (2.0) average in your transferable college coursework.

2. If you met the Scholarship Requirement, but did not satisfy the Subject Requirement,* you must take transferable courses in the subjects you are missing to be eligible to transfer. You will need to earn a grade of C or better in each of these required courses, and an overall "C" (2.0) average in all UC transferable college coursework. If you completed less than 18 quarter or 12 semester units of UC transferable college coursework, you must satisfy the Examination Requirement for freshman applicants.
3. If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, or you did not meet the Scholarship Requirement and did not complete all the required "a-f" subjects,* you must:
 - a. Complete 60 semester units or 90 quarter units of UC 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 or 4-5 quarter units each) in English composition; and
 2. One transferable college course (3 semester or 4-5 quarter units) in Mathematical Concepts and Quantitative Reasoning; **and**
 3. Four transferable college courses (3 semester or 4-5 quarter 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.

*Please also refer to the section titled "Intersegmental General Education Transfer Curriculum."

*If you graduated from high school before June 1986, your "c" and "f" subject requirements are different from those described previously. Please contact the Admissions Officer at any UC campus for more information.

NONRESIDENTS

The minimum admission requirements for nonresident transfer applicants are the same as those for residents except that nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

TRANSFERABLE COURSES TO UNIVERSITY OF CALIFORNIA

Please see your counselor or the Transfer Center Coordinator for all courses that have been accepted by any campus of the University of California as transferable for the 2008-09 school year.



INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM

The Intersegmental Committee of the Academic Senates approved the Intersegmental General Education Transfer Curriculum (IGETC) which was implemented Fall 1991. The IGETC is a series of courses that community college students can use to satisfy lower division general education requirements at any CSU or UC campus. The IGETC is intended to facilitate course planning and should appeal to students who want to keep their options open before making a final decision about transferring to a particular segment or campus. The IGETC will provide an option to the California State University General Education Requirements.

FOR STUDENTS TRANSFERRING TO A UC CAMPUS

In general, it is not advisable for transfers to engineering majors at any UC campus to use the IGETC. The IGETC option may also be inappropriate for transfers entering "high unit" majors such as those in the sciences having substantial lower division science and math prerequisites. It may be more appropriate to take courses that are a part of the general education or breadth requirements for the school or college on the UC campus to which a transfer is planned.

FOR STUDENTS TRANSFERRING TO A CSU CAMPUS

It is important to note that IGETC is an option for CSU bound students. IGETC requirements may be followed by both continuing and new students who plan to transfer to a California State University.

The Intersegmental General Education Transfer Curriculum will permit a student to transfer from a California community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower-division, general education courses to satisfy campus G.E. requirements.

Completion of the IGETC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower-division, general education requirements of the CSU or UC prior to transfer. Students may find it advantageous to take courses fulfilling CSU's general education requirements or those of a particular UC campus.

The course requirements for ALL areas must be completed PRIOR to transferring to the CSU or UC in order for the IGETC to be certified. However, beginning Fall 2000 a student may be partially certified if they are missing no more than 2 courses. See your counselor to determine eligibility for partial certification. All courses must be completed with a grade of "C" or better. A student who has completed IGETC may have an official certification sent to a four-year institution upon written request by the student through the Office of Admissions and Records.

NOTE: COURSES APPEARING IN MORE THAN ONE CATEGORY MAY BE USED TO SATISFY ONLY ONE CATEGORY. SUCH COURSES ARE MARKED WITH AN *.

AREA 1 ENGLISH COMMUNICATION

CSU: Courses from A, B, and C required.

UC: Courses from A and B required.

- A) English Composition
(1 course, 3 semester/4-5 quarter units)
English 100
- B) Critical Thinking-English Composition
(1 course, 3 semester/4-5 quarter units)

English 101, 103
Philosophy 103
Psychology 103
Speech 235

- C) Oral Communication (CSU ONLY)
(1 course, 3 semester/4-5 quarter units)
Speech 100+, 120, 130, 132+

AREA 2 MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

- (1 course, 3 semester/4-5 quarter units)
Mathematics 100, 112+, 114+, 115, 116+, 150+, 170+, 190, 220, 240
Psychology 210+

AREA 3 ARTS AND HUMANITIES

(3 courses, with at least one from A and one from B below;
9 semester/12-15 quarter units)

- A) Arts
Architecture 112+
Art 100, 101, 102, 103, 104, 106, 107, *108, *109
Dance 100, 101
Humanities *108, *109
Music 100, 101, 103, 104, 104B, 105
Photography 160
Theatre 101, 102, 103, 104, 150, 159
- B) Humanities
Art *108, *109
English 102, 106, 221A, 221B, 222, 223, 224, 225, 226, 227, 228, 230A, 230B, 232, 233, 234, 235, 236, 237, 245, 246A, 246B, 248A, 248B
French 201, 202
German 102, 201, 202
History *101+, *102+, *103+, *110, *120, *210+, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Humanities 100, *108, *109
Japanese 102
Philosophy 100, 102, 104, 200, 201, 204, 206
Sign Language 201
Spanish 102+, 112+, 201, 202, 205, 210, 245
Women's Studies 102

AREA 4 SOCIAL AND BEHAVIORAL SCIENCES

(3 courses from at least two disciplines or an interdisciplinary sequence; 9 semester/12-15 quarter units)

Anthropology 100, 120, 170, 200, 201, 202, 203, 205
Child Development 110
Economics 101+, 102, 201, 202
Geography 102, 105
History *101+, *102+, *103+, *110, *120, 204, *210+, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265
Physical Education 106
Political Science 101+, 201+, 210, 220, 230
Psychology 101, 150, 251, 261, 271
Sociology 101, 110, 120, 201, 202, 210, 215, 250
Speech 110
Women's Studies 101, 106, 202, 204, 205, 206

AREA 5 PHYSICAL AND BIOLOGICAL SCIENCES

(2 courses, one from A and one from B below; at least one course must include laboratory (lab); 7-9 semester/9-12 quarter units)

A) Physical Sciences

Astronomy 101, 102+, 103+, 104, 105L(lab), 106
Chemistry 100+ (lab), 110+ (lab), 111 (lab), 112 (lab)
Earth Science 101, 102 (lab), 104, 104L (lab), 106, 110+ (lab)
Geography 101, 101L (lab), 103
Geology 101+ (lab), 201 (lab), 207 (lab), 208, 209
Physical Science 100+
Physics 100+ (lab), 101+ (lab), 102+ (lab), 201+ (lab), 202+ (lab), 203+ (lab)

B) Biological/Life Sciences

Anatomy and Physiology 120+ (lab), 130+ (lab), 150+ (lab), 151+ (lab), 200+ (lab), 201+ (lab)
Anthropology 115, 115L (lab)
Biology 115 (lab), 120+ (lab), 200 (lab), 201 (lab), 202
Botany 120 (lab)
Microbiology 200 (lab)
Psychology 241
Zoology 120 (lab)

ADDITIONAL REQUIREMENTS

A) UC ONLY: Language other than English

There are several ways to satisfy this requirement.

They include:

- Complete two years of the same foreign language in high school with a grade of "C" or better.
- Complete first college course in any foreign language, or Sign Language 101.
- Earn a minimum score of 500 on an appropriate College Board Achievement Test in a foreign language.
- For other options, see your counselor.

B) CSU ONLY: The CSU has a specific American Institutions requirement that is separate from the general education requirements. Courses used to meet the American Institutions requirement may be used to satisfy requirements for the IGETC at the discretion of the receiving CSU campus. It is recommended that this requirement be met prior to transfer. The following will meet the CSU American Institutions requirement. 6 units, one course from Group 1 and one course from Group 2.

Group 1: History 101+, 102+, 103+

Group 2: Political Science 101+, 201+

C) The UC-bound student should be aware of the American history and institutions requirements at the campus of choice. Requirements do vary. See your counselor for details.

+Credit limitation. UC credit limitations may apply for certain courses in IGETC, as well as other UC transferable courses which are not in IGETC. An explanation for each course which has credit limitations appears in the college catalog course description. See a counselor for details.



Weekend College

WHAT IS WEEKEND COLLEGE?

Weekend College enables working adults to succeed as students while meeting family and personal obligations. Students can take a full-time load of four courses, twelve units per semester, by attending classes on Friday nights and all day Saturday. Distance Learning is a component of the program. Weekend College is a complete college experience based on a traditional curriculum whose content has been refashioned to fit the needs and schedules of today's working adults. It is designed for both, part-time or full-time students, and for those who bring transfer credits from other colleges as well as students who are just beginning their college education.

HOW CAN WEEKEND COLLEGE HELP YOU?

- Earn general education credits to transfer
- Explore exciting career paths
- Brush up on your job skills
- Complete your college degree faster
- Complete the program in a supportive environment
- Envision your personal and professional success
- Make earning your B.A. degree a reality

HOW THE PROGRAM WORKS?

1. Apply to Cerritos Community College at: www.cccapply.org/applications/CCCApply/apply/Cerritos_College.html
2. Attend a Weekend College Orientation. Information available at: www.cerritos.edu/weekendcollege
3. Apply to Weekend College Program at: http://cms.cerritos.edu/scripts/weekendcollege/wc_application.asp
4. Take the free English and Math Placement Tests. Information available at: www.cerritos.edu/career-services/assessment-testing/
5. Obtain and submit official transcripts of all previous college course work completed at all institutions of higher learning.



Community, Industry & Technology Education — *Bringing it all together for Business!*

OFFICE OF ECONOMIC DEVELOPMENT

The Office of Economic Development (OED) has been established by Cerritos College to meet the specific educational needs of business and industry. The OED provides quality controlled, customized programs and services that go beyond the traditional academic curriculum. All programs and services are developed with input from the corporate client and can be provided at the work-site or on campus at times convenient to the program participants.

The OED serves numerous local companies, among them, aerospace companies, banking institutions, health care agencies, utility and public work companies, communication firms, hotels, restaurants, supermarkets and others.

Services and programs provided by the OED include management training, high-tech training, leadership development, computer technology, banking and finance training, executive fitness training, language training, as well as seminars, conferences and forums on current business issues and concerns. Consultant and technical assistance services are available to work with businesses in developing any program that is not already offered.

For further information please call the Office of Economic Development at (562) 860-2451, Ext. 2511.

COMMUNITY EDUCATION

The Community Education programs carries out the concept of lifelong learning in the general population. Community Education provides classes, activities, workshops and programs to meet the varied needs of our diverse community, from the very young in the College for Children and Young Scholars programs to our seniors in the Emeritus program. All Community Education courses-career development, work force training and retraining, cultural enrichment, and civic literacy-are educational; their overall goal is to impart knowledge and develop skills. The College provides participants with access to quality programs in a format that blends education with work and leisure throughout life.

Here are just a few of the many exciting learning opportunities Community Education offers to enhance your abilities and expand your horizons. Whatever your interests, we believe you will discover a class, an activity, a workshop or a program to meet your needs.

SEMINARS FOR PROFESSIONALS/CERTIFICATE OF COMPLETION:

Business and Sales Computer Training-Financial Planning-Real Estate-Makeup Design-Fingernail Art-EMT Recertification-Coronal Polish-Health Professions-Personal Enrichment-CPR-Holistic Health-Dance Classes-Driver and Motorcycle Training-Traffic School, and our College for Children and Youth Program. (Academics, Children's Theatre, Music and Arts, Dance).

For specific information regarding these programs, call Community Education (562) 467-5050, Ext. 2521.

ADULT EDUCATION/DIVERSITY PROGRAMS

Adult Education and Diversity Programs provide educational opportunities that address the unique needs of adults in the region. Adult Education courses are noncredit, open entry, open exit, and have No Registration Fees. Adult Education Courses include categories such as:

- English as a Second Language
- Vocational English as a Second Language
- Pre-apprenticeship/Apprenticeship
- Elementary and Secondary Basic Skills
- Courses for Immigrants
- CAHSEE Prep
- Short-term Vocational Programs
- Educational Programs for Older Adults
- Older Wiser Learner (OWL)

Emeritus courses are designed to meet the special needs of older adults. Emeritus courses are noncredit, open entry, open exit, and have No Registration Fees. Courses include:

- Senior Exercise
- Massage
- Arts & Crafts
- Quilting
- Harmony Chorus, Community Chorus
- Creative Writing

Cerritos College Adult Education programs also provide access and opportunities for Adult Education students to enter credit, orientation, and vocational college programs.

Services include one-stop registration, assessment and counseling. For more information call (562) 467-5098.

To learn about specific classes and programs offered, check the schedule of classes.

REGISTRATION FOR COMMUNITY EDUCATION CLASSES IS ALWAYS SIMPLE

Walk-In	Come to the Community Education Building. Located in the far south-west corner of the campus, north of New Falcon Way.
Phone In	(562) 467-5050. Have your VISA or MASTERCARD number ready for fee-based courses.
Mail In	Use the registration form in the Calendar of Events.
Fax In	For fee-based courses use our fax number (562) 467-5013.
	Register 24 hours, seven days a week.
In Person	Monday - Thursday, 8 a.m.-7:30 p.m.
	Friday, 8 a.m.-4:30 p.m.
	Saturday, 8 a.m.- noon.

Cerritos College Foundation

The Cerritos College Foundation, a non-profit organization organized in 1979, serves as a charitable vehicle for the community, individuals and alumni, to assist with financial support to Cerritos College beyond that which cannot be met through state funding. It is the belief of the Foundation that the growth of Cerritos College must be fostered and supported for the institution to keep its rightful place as one of the finest community colleges in California and in the nation.

The Foundation's commitment is to cultivate and solicit private financial support for the faculty, staff and programs of Cerritos College whose goal is to continue the tradition of producing high-caliber professionals, leaders and artisans who enrich our community. We are committed to strengthening the pursuit of quality education while meeting the diverse needs of the students and community. The Foundation offers a variety of scholarships in various disciplines to assist students in their educational pursuits.

Over 25 community leaders volunteer generously of their time, talent and resources to support Cerritos College and its students by serving on the Foundation Board of Directors.

We invite you to visit our website at www.cerritos.edu/ccf or you may contact the Foundation Office at (562) 860-2451, Ext. 2526, for more information or to make a donation.



(L) Dr. Eric Ikeda, Foundation board director and Bellflower optometrist; Amber Salcedo, winner of the Bellflower Noon Lions Club Scholarship; and Dr. Ted Edmiston, Cerritos College trustee.

**CURRICULA,
REQUIREMENTS
FOR
MAJORS,
CERTIFICATES AND
TRANSFER PROGRAMS**



CERTIFICATE OF ACHIEVEMENT

Cerritos college is authorized to award a Certificate of Achievement to any student who satisfactorily completes an organized curricula designed for a specific occupational goal. In order to obtain a Certificate, a student must satisfy the following requirements:

1. Complete the course requirements for the chosen program of study as detailed in the "Programs of Study" section of this catalog.
2. Maintain a minimum grade point average of "C" (2.0) in all required courses, including a GPA of 2.0 for all departmental courses specified, as well as a 2.0 for all course outside the major designated as requirements in the curriculum pattern.
3. **A minimum of twelve (12) units of course work within the certificate must be taken at Cerritos College if Certificate of Achievement is to be awarded by this institution.**
4. Upon completion of required course work, file a "Petition for Certificate of Achievement" form. The petitions are available in the Counseling Center.
5. Units earned toward the Certificate of Achievement may be applied toward an Associate in Arts Degree.
6. Credit toward the Certificate of Achievement is not granted for classes taken as part of the Adult Education Program.

VERIFICATION OF COMPLETION

Locally approved certificate programs may consist of one or more courses totaling 17 units that lead to an occupationally relevant set of skills.



ADMINISTRATION OF JUSTICE

ASSOCIATE IN ARTS DEGREE

The following Administration of Justice Associate in Arts Degree program meets guidelines established by the California Community Colleges' Chancellor's Office.

Six units of elective, non-transferable Administration of Justice credit may be granted to employed peace officers that have completed a basic P.O.S.T. academy.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete a minimum of 60 units, including: (1) the Administration of Justice Core and Department requirements, (2) AA degree general education requirements, and (3) additional elective courses as needed.

ADMINISTRATION OF JUSTICE CORE REQUIRED (21 UNITS)

		UNITS
AJ 91	Report Writing Procedures	3
AJ 101	Introduction to Administration of Justice	3
AJ 102	Concepts of Criminal Law	3
AJ 103	Criminal Procedures	3
AJ 104	Criminal Evidence	3
AJ 105	Community Relations	3
AJ 202	Substantive Law	3

DEPARTMENT REQUIREMENTS REQUIRED (12 UNITS)

AJ 110	Patrol Procedures and Enforcement Tactics	3
AJ 220	Criminal Investigation	3
PSYC 101	General Introductory Psychology	3
or PSYC 261	Social Psychology	(3)
SOC 101	Introductory Sociology Principles	3
or SOC 201	Introductory Sociology: Social Problems	(3)

ELECTIVE GROUP

AJ 51	Firearms	1
AJ 52	Advanced Firearms	1
AJ 61	Defense Tactics	1
AJ 62	Advanced Defense Tactics	1
AJ 71	First Aid (AJ)	2
AJ 107	Introduction to Probation and Parole	3
AJ 130	Traffic Control and Investigation	3
AJ 150	Introduction to Corrections	3
AJ 173	A.J. Occupational Work Experience	3
AJ 180	Introduction to Security	3
AJ 208	Special Issues in Law Enforcement	3
AJ 221	Narcotics and Vice Control	3
AJ 222	Juvenile Procedures	3
AJ 298	Directed Studies	1
AJ 299	Directed Studies	2
BCOT 131	Beginning College Keyboarding & Document Processing (Recommended)	3
SPAN 223	Spanish for Careers	3
JOUR 101	Beginning Newswriting and Reporting	3
PHOT 100	Introductory Photography	3
BL 100	Introduction to California Civil Procedures	3
BL 101	Introduction to Law	3
BL 103	Legal Research	3

CAREER OPPORTUNITIES: Upon completion of the Administration of Justice Associate in Arts Degree program, employment in various positions in the criminal justice system is available, including police officer, deputy sheriff, correctional officer, investigator, etc. Civil service regulations and state laws govern the appointment of public law enforcement officers. Eligibility depends on performance in competitive exams in addition to education and experience. The positions have rigorous physical, psychological and integrity requirements. Employment is further conditioned on completion of a satisfactory background investigation. Completion of the Baccalaureate transfer program provides the educational potential for advancement to supervisory and management positions or entry to graduate studies or law school.

See Cerritos College Graduation Requirements.

ADMINISTRATION OF JUSTICE TRANSFER PROGRAM

LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

UNITS

California State University – Dominguez Hills

CIS 101	Introduction to Computer Information Systems	3
MATH 115	Finite Mathematics	4

California State University - Fullerton

All classes for the major are upper division and are taken at CSUF. See a counselor for recommended lower division electives.

California State University-Long Beach

AJ 101	Introduction to Administration of Justice	3

There is one required core course that is not currently offered at Cerritos College.

Six cognate courses (18 units) in related disciplines are also required. Transfer students are encouraged to complete as many of the cognate courses as they can. At Cerritos, 12 of those 18 units can be completed. They are PSYC 101, SOC 101, POL 101 and PHIL 106.

The Bachelor of Science in Criminal Justice program is impacted. The CSU designates major programs as impacted when more applications are received in the initial filing period from CSU eligible applicants than can be accommodated by the campus. Impacted majors are authorized to use supplementary admission criteria and/or higher admission standards than the CSU minimum requirements in considering applicants to the program. These criteria are applied equally to continuing CSULB students and entering upper-division transfer students. Please refer to the admissions web site for impactation admission details www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

California State University-Los Angeles

AJ 101	Introduction to Administration of Justice	3
AJ 102	Concepts of Criminal Law	3
and AJ 202	Substantive Law	3
or BL 116	Criminal Law	(3)
AJ 150	Introduction to Corrections	3

Students transferring to CSULA are advised to complete ENGL 103

as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement

Recommended electives for any of the above universities, for this major are:

AJ 102	Introduction to Administration of Justice	3
AJ 103	Criminal Procedure	3
AJ 104	Criminal Evidence	3
AJ 105	Community Relations	3
AJ 202	Substantive Law	3
PSYC 101	General Introductory Psychology	3
SOC 101	Introductory Sociology Principles	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

The completion of 60 units, including 18 units of the above AJ requirements (AJ 101, 102, 103, 104, 105 and 202) and the Associate in Arts General Education Requirements, qualifies the student for the AA degree in Administration of Justice.

CAREER OPPORTUNITIES: For those persons seeking employment in law enforcement at the AA level of preparation, many opportunities exist in the various federal, state, municipal and county criminal justice agencies. A wider variety of employment opportunities exist for those who hold a bachelor's degree (e.g. administration) and/or masters degree (e.g. teaching, research, administration, etc.)

See Cerritos College Graduation Requirements.
See State University General Education List.

AGRICULTURE TRANSFER PROGRAM

LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC INSTITUTIONS

California State University - Chico

Bachelor of Science in Agriculture option in Crops, Horticulture, Land Resource Management.

		UNITS
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
or CHEM 211	Organic Chemistry	5
MATH 112	Elementary Statistics	4

California State Universities and Colleges that offer related Bachelor's Degree. Chico, Pomona, Fresno, San Luis Obispo, Stanislaus.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include: (1) the lower division preparation, (2) electives as needed, and (3) the Associate in Arts Degree General Education requirements.

CAREER OPPORTUNITIES: Programs with an emphasis in Agriculture are designed for agriculturally-related occupations in business, industry, specialized services, education, conservation, recreation and production. Many careers unknown a few years ago have expanded with mechanization to meet food needs.

See Cerritos College Graduation Requirements.

See State University General Education list.

ANTHROPOLOGY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

		UNITS
ANTH 100	Cultural Anthropology	3
ANTH 115	Physical Anthropology	3

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University-Dominguez Hills

ANTH 120	Introduction to Archaeology	3

California State University – Los Angeles

ENGL 103	Critical and Argumentative Writing	3

Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

ANTH 120	Introduction to Archaeology	3

A modern foreign language with at least 2nd year proficiency (101 and 102 or 111 and 112 level) or successful completion of 3 years of high school foreign language, or a designated upper-division course in linguistics is required.

University of California – Irvine

In fulfillment of the requirements below, a single course may be used only once.

ANTH 115	Physical Anthropology	3
or ANTH 120	Introduction to Archeology	(3)
or ANTH 170	Introduction to Language and Culture	(3)

Four Additional Anthropology Courses from the courses listed below:

ANTH 115	Physical Anthropology	3
ANTH 120	Introduction to Archeology	3
ANTH 200	Native Peoples of North America	3
ANTH 201	Native Peoples of California	3
ANTH 202	The Maya, Inca and Aztecs: Ancient Civilizations of the Americas	3
ANTH 203	The Anthropology of Magic, Witchcraft, and Religion	3
CIS 101	Introduction to Computer Information Systems	3

or CIS 101	Introduction to Computer Information Systems	(3)
and CIS 103	Computer Programming Logic	(3.5)
or CIS 280	Object-Oriented Programming in C++	(3)
and CIS 182	JAVA Programming	(3.5)
MATH 170	Analytic Geometry and Calculus I	4
and PSYCH 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)

University of California – Los Angeles

ANTH 120	Introduction to Archeology	3
UCLA offers a B.A. and a B.S. in Anthropology. See a counselor for the B.S. requirements.		

University of California – Riverside

ANTH 120	Introduction to Archeology	3
ENGL 106	Introduction to Language Study	3

UCR offers a B.A. and B.S. in Anthropology. A B.A. in Anthropology/Law and Society is also available; see a counselor for additional requirements.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

ANTH 100	Cultural Anthropology	3
ANTH 115	Human Evolution and Variation	3
ANTH 120	Introduction to Archaeology	3
ANTH 170	Introduction to Language and Culture	3

Select any additional Anthropology courses as electives for a total of 18 units.

ANTH 200	Native peoples of North America	3
ANTH 201	Native peoples of California	3
ANTH 202	The Maya, Inca & Aztecs: Ancient Civilization of the Americas	3
ANTH 203	The Anthropology of Music, Witchcraft and Religion	3
ANTH 204	The Anthropology of Sexuality and Gender	3
ANTH 250	Introduction to field Archaeology	3

CAREER OPPORTUNITIES: Employment for the person holding a Ph.D in Anthropology is good. Usual placements are chiefly in colleges and universities and also in museums, national parks, and in technical aid programs. Persons holding the B.A. will find limited employment. A person interested in teaching can use Anthropology as a teaching Minor.

See Cerritos College Graduation Requirements.

See State University General Education List.

ARCHITECTURAL TECHNOLOGY ASSOCIATE IN ARTS DEGREE PROGRAM

REQUIRED COURSES		UNITS
ARCH 110	Introduction to Architecture and Environmental Design	3
ARCH 111	Architectural Drafting and Design I	3
ARCH 112	History of Architecture	3
ARCH 113	Building Codes	4
ARCH 121	Architectural Drafting and Design II	3

ARCH 123	Introduction to Computer Aided Drafting for Architecture	4
ARCH 212	Architectural Design Theory I	3
ARCH 213	Advanced Applications of Computer Aided Drafting for Architecture	4
ARCH 221	Working Drawing/Architectural Desktop	4
ART 110	Freehand Drawing	3
TOTAL CERTIFICATE UNITS		34

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the above course requirements, (2) the AA Degree general education requirements, and (3) electives as needed.

RECOMMENDED ELECTIVES: ART 185, BA 100, ENGT 255, PSYC 101, RE 101.

CAREER OPPORTUNITIES: Employment as an architectural draftsman, Architectural CAD drafter. Related Transfer Programs: See Architecture and Industrial Technology-Construction.

See Cerritos College Graduation Requirements.

ARCHITECTURE TRANSFER PROGRAM

COMMON LOWER DIVISION (CORE) REQUIREMENTS

	UNITS
ARCH 111 Architectural Drawing	3
ECON 201 Principles of Macroeconomics	3
or ECON 202 Principles of Microeconomics	(3)
ENGL 102 Composition and Literature	3
or ENGL 103 Critical and Argumentative Writing	(3)
MATH 140 Trigonometry	3

ADDITIONAL LOWER DIVISION REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State Polytechnic University – Pomona

ARCH 121	Materials and Methods of Building Construction	3
ARCH 122	Architectural Delineation	2
ARCH 211	Architectural Design, Programming and Presentation	3
ARCH 212	Architectural Design Theory I	3
ARCH 222	Architectural Design Theory II	3
PHYS 101	General Physics	4

NOTE: Applications are only accepted from October 1 – November 30 for the following academic year: Fall applications only. The Golden "4" must be completed by end of Fall semester in which the student applies to the program (e.g.) by end of Fall – 08 for entrance in Fall – 09.

California State Polytechnic University – San Luis Obispo

ARCH 110	Introduction to Architecture and Environmental Design	3
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4
or PHYS 201	Engineering Physics	(4)
PHYS 202	Engineering Physics	(4)

University of California – Berkeley

ARCH 110	Introduction to Architecture and Environmental Design	3
ARCH 112	History of Architecture	3
ARCH 122	Architectural Delineation	2
ARCH 212	Architectural Design Theory I	3
ART 110	Freehand Drawing	3
ART 121	Three-Dimension Design	3
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4

University of Southern California

ARCH 112	History of Architecture	3
ARCH 122	Architectural Delineation	2
ARCH 212	Architectural Design Theory I	3
MATH 150	PreCalculus Mathematics	4
PHYS 101	General Physics	4

Recommended Electives:

ART 110, 120, 121

ARCH 121, 123, 211, 213, 222

Woodbury University

ARCH 122	Architectural Delineation	2
ARCH 212	Architectural Design Theory I	3
ARCH 222	Architectural Design Theory II	3
ARCH 123	Introduction to 2-D Computer Aided Drafting	4
ARCH 213	Introduction to 3-D Computer Aided Drafting	4
ARCH 121	Architectural Drafting & Design II	3
ARCH 113	Building Codes	4
ARCH 112	History of Architecture	3
SPCH 100	Fundamentals of Oral Communication	3
or SPCH 130	Fundamentals of Speaking	(3)
ART 103	Modern and Contemporary Appreciation	3
MATH 114	College Algebra (Not necessary if Pre-Calculus or Calculus have been completed)	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the 60 units to include (1) The Common Lower Division Requirements, (2) ARCH 212, 222, (3) 9 units of Architectural Electives, (4) The Associate in Arts general education degree requirements.

See Cerritos College Graduation Requirements.

See State University General Education List.

Related Transfer Programs: Architectural Studies at UCLA. Civil Engineering (Architecture Emphasis/ Building Science) Interior Design, Landscape Architecture, Urban – Regional Planning.

See counseling for information.

OCCUPATIONAL PREPAREDNESS IN DESKTOP PUBLISHING/JOURNALISM

VERIFICATION OF COMPLETION

This verification will provide the student with the entry-level skills needed to write and prepare for printing such widely produced documents and newsletters, brochures, and news releases. These skills are applicable in a wide variety of business environments.

FINE ART DESKTOP PUBLISHING/JOURNALISM

VERIFICATION OF COMPLETION

14-15 UNITS

SELECT 11-12 UNITS FROM THE FOLLOWING:

		UNITS
ART 186	Computer Graphics with Adobe Illustrator	3
ART 188	Design for Desktop Publishing	3
ART 192	Photoshop/Digital Imaging	3
JOUR 101	Beginning Newswriting and Reporting	3
JOUR 105	Newspaper Production	2

PLUS ONE COURSE FROM THE FOLLOWING:

ART 182A	Lettering and Typography	3
BA 110	Advertising	3
JOUR 103	Newspaper Article Writing	2
JOUR 157	Principles of Public Relations	3
PHOT/JOUR 130	Photojournalism	3

ART AND DESIGN

LETTERING ARTS

VERIFICATION OF COMPLETION

REQUIRED COURSES

		UNITS
ART 180	Calligraphy I – Basic Roman Letterforms	3
ART 181	Calligraphy II - Basic Italic Letterforms	3
ART 287A	Letter Arts I - Uncial and Gothic Letterforms	2
ART 287B	Roman Calligraphy	2
ART 183A	Commercial Brush Lettering	1
ART 183B	Copperplate Calligraphy	1

TOTAL VERIFICATION REQUIREMENTS 12

Although some of these courses are transferable, this certificate is non-transferable.

The Lettering Arts Verification of Completion is designed to include the following objectives:

- To gain proficiency in calligraphy using traditional lettering techniques
- To develop knowledge of the history of lettering
- To explore various historic styles of lettering
- To develop confidence and a personal style of lettering
- To help the participant create a letter arts business plan

A Verification of Completion in the Lettering Arts Certificate will be granted upon completion of 12 units.

ART AND DESIGN

ASSOCIATE IN ARTS DEGREE

REQUIRED FOUNDATIONAL COURSES (15 UNITS)

		UNITS
ART 102	Art History II: Renaissance to Rococo	3
or ART 103	Art History III: Neoclassical to Present	(3)
ART 110	Freehand Drawing	3
ART 112	Life Drawing	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3

ART AND DESIGN OPTIONAL TRACKS (CHOOSE ONE)

CERAMICS — REQUIRED (6 UNITS)

ART 150	Introduction to Ceramics	3
ART 151	Ceramics – Wheelthrowing	3

JEWELRY— REQUIRED (12 UNITS)

ART 144	Jewelry/Metalsmithing	3
ART 145	Jewelry Casting and Molds	3
ART 246	Jewelry Design Fabrication	3

DRAWING AND PAINTING — REQUIRED (9 UNITS)

ART 130A	Fundamentals of Painting	3
ART 130B	Fundamentals of Painting	3
ART 136	Painting for Art Majors	3

PRINTMAKING — REQUIRED (9 UNITS)

ART 116	Beginning Printmaking	3
ART 117	Intermediate Printmaking	3
ART 218	Screenprinting	3
or ART 219	Advanced Etching	(3)

SCULPTURE — REQUIRED (11 UNITS)

ART 160	Life Sculpture	2
ART 162	Introduction to Sculpture	3
ART 163	The Techniques of Sculpture	3
ART 264	Sculpture-Stonecarving	3

GRAPHIC DESIGN — REQUIRED (18 UNITS)

ART 182A	Lettering and Typography	3
ART 184	Graphic Design I	3
ART 186	Computer Graphics with Adobe Illustrator	3
ART 188	Design for Desktop Publishing	3
ART 192	Photoshop/Digital Imaging	3
ART 196	Web Design with Flash & Dreamweaver	3

RECOMMENDED ELECTIVES

CERAMICS

ART 252	Ceramics – Form and Technique	3
ART 253	Ceramics – Form and Content	3

DRAWING AND PAINTING

ART 213	Intermediate Life Drawing	3
ART 237	Life Painting	3
ART 238	Special Studies in Painting	3

GRAPHIC DESIGN

ART 180	Calligraphy I	3
ART 181	Calligraphy II	3
ART 182B	Lettering and Typography II	3
ART 185	Rendering I	3
ART 285	Rendering II	3
BA 110	Advertising	3
PHOTO 100	Introductory Photography	3

MULTIMEDIA DESIGN

PHOTO 100	Introductory Photography	3
PHOTO 102	Intermediate Photography	3
PHOTO 112	Intermediate Digital Photography	3
ART 184	Graphic Design I	3
CIS 103	Computer Programming Logic	3.5
CIS 205	Programming in HTML for the World Wide Web	1.5

PRINTMAKING

ART 218	Screenprinting	3
ART 219	Advanced Etching	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete a minimum of 60 units to include: (1) Above art courses and units requirements, (2) AA Degree general education requirements and (3) electives as needed.

CAREER OPPORTUNITIES: Self-employed artist/craftsman; designer; jeweler; potter; printmaker; freehand illustrator; sketch, private studio; desktop publisher; graphic designer; Web Designer; computer illustrator; gallery museum worker; art supplies sales.

See Cerritos College Graduation Requirements.

COMPUTER ANIMATION CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES		UNITS
ART 101	Art History I: Prehistory to Gothic	3
or ART 103	Art History III: Neoclassical to Present	(3)
ART 110	Freehand Drawing	3
ART 112	Life Drawing	3
ART 114	Storyboard and Graphic Novel Illustration	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 190	Animation Principles	3
ART 191	3D Character Animation	3
ART 195	3D Computer Modeling	3
ENGL 240	Creative Writing	3
MUS 244	Digital Audio Production	3

TOTAL CERTIFICATE REQUIREMENT	<u>33</u>

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the requirements for a Certificate of Achievement in Computer Animation. For an AA Degree, a student must also take 6 units selected from the following courses: ART 192, ART 194, ART 196, TH 156 and general education requirements to achieve a minimum of 60 units.

MOTION GRAPHICS CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES		UNITS
ART 101	Art History I: Prehistory to Gothic	3
or ART 103	Art History III: Neoclassical to Present	(3)
ART 110	Freehand Drawing	3
ART 112	Life Drawing	3
ART 114	Storyboard and Graphic Novel Illustration	3
ART 120	Two Dimensional Design	3
ART 121	Three Dimensional Design	3
ART 182A	Lettering and Typography I	3
ART 182B	Letting and Typography II	3
ART 190	Animation Principles	3
ART 198	Motion Graphics	3
MUS 244	Digital Audio Production	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete requirements for a Certificate of Achievement in Motion Graphics. For an AA Degree, a student must also take 6 units selected from the following courses: ART 192, ART 194, ART 196, TH 156 and general education requirements to achieve a minimum of 60 units.

DIGITAL ARTS ASSOCIATE IN ARTS DEGREE

REQUIRED COURSES		UNITS
CORE REQUIREMENTS (21 UNITS)		
ART 101	Art History I: Prehistory to Gothic	3
or ART 103	Art History III: Neoclassical to Present	(3)
ART 110	Freehand Drawing	3
ART 112	Life Drawing	3
ART 114	Storyboard and Graphic Novel Illustration	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 190	Animation Principles	3

Completion of all courses (12 units) in either the Motion Graphics Emphasis or the Computer Animation Emphasis as listed below:

MOTION GRAPHIC EMPHASIS

ART 182A	Lettering and Typography I	3
ART 182B	Lettering and Typography II	3
ART 198	Motion Graphics	3
MUS 244	Digital Audio Production	3

COMPUTER ANIMATION EMPHASIS

ENGL 240	Creative Writing	3
ART 191	3D Character Animation	3
ART 195	3D Computer Modeling	3
MUS 244	Digital Audio Production	3
or ART 193	Motion Picture Editing	3

Plus two courses from the following list (6 units):

TH 156	Video Production	3
ART 192	Photoshop/Digital Imaging	3
ART 194	Multimedia Design	3
ART 196	Web Design with Flash and Dreamweaver	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete (1) core requirements, (2) all courses in the Motion Graphics Emphasis or the Computer Animation Emphasis, (3) two courses from the list above, and (4) the Associate in Arts Degree general education requirements.

DIGITAL LAYOUT FOUNDATION VERIFICATION OF COMPLETION

REQUIRED COURSES	UNITS
ART 186 Computer Graphics with Adobe Illustrator	3
ART 188 Design for Desktop Publishing	3
TOTAL VERIFICATION OF COMPLETION REQUIREMENTS	6

NOTE: Both courses are transferable but this verification is non-transferable.

The Digital Layout Foundation Verification of Completion is designed to include the following objectives: a) to explore various text layout design problems b) to develop knowledge of digital typesetting c) to explore various digital illustration techniques d) to gain proficiency in desktop publishing applications e) to help the participant update software skills.

A Verification of Completion in the Digital Layout Foundation Certificate will be granted by the division upon completion of 6 units.

3D ANIMATION FOUNDATION VERIFICATION OF COMPLETION

REQUIRED COURSES	UNITS
ART 195 Modeling for Animation	3
ART 191A 3D Computer Animation	3
TOTAL VERIFICATION OF COMPLETION REQUIREMENTS	6

NOTE: Both courses are transferable but this verification is non-transferable.

The 3D Animation Foundation Verification of Completion is designed to include the following objectives: a) to develop fundamental 3D Computer modeling skills b) to explore traditional animation principles and apply them to digital animation c) to create original 3D models with Photographic texture maps d) to create animated short films e) to help the participant update software skills.

A Verification of Completion in the 3D Animation Foundation will be granted by the division upon completion of 6 units.

DIGITAL GRAPHICS FOUNDATION VERIFICATION OF COMPLETION

REQUIRED COURSES	UNITS
ART 186 Computer Graphics with Adobe Illustrator	3
ART 192 Photoshop/Digital Imaging	3
TOTAL VERIFICATION OF COMPLETION REQUIREMENTS	6

NOTE: Both courses are transferable but this verification is non-transferable.

The 3D Animation Foundation Verification of Completion is designed to include the following objectives: a) to gain proficiency in vector and bitmap graphic applications b) to develop knowledge of digital photographic manipulation c) to explore various digital illustration techniques d) to develop confidence in digital imaging e) to help the participant update software skills.

A Verification of Completion in the Digital Graphics Foundation will be granted by the division upon completion of 6 units.

ART AND DESIGN TRANSFER PROGRAM

LOWER DIVISION REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills		UNITS
ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
and ART 103	Art History III: Neoclassical to Present	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3

The above courses are common core requirements only. See a counselor for additional major requirements for specific Art options.

AVAILABLE OPTIONS: ART HISTORY, DESIGN, AND STUDIO ART.

California State University – Fullerton		
ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 110*	Freehand Drawing	3
or ART 111*	Intermediate Freehand Drawing	(3)
ART 112	Life Drawing	3
or ART 213	Intermediate Life Drawing	(3)
ART 120*	Two-Dimensional Design	3
ART 121*	Three-Dimensional Design	3
ART 130B*	Fundamentals of Painting	3

*Course must be completed with B or better to receive Bachelors of Fine Arts in Art

The above requirements are core requirements only. Additional Art classes should be selected according to the student's art emphasis at the transfer institution. Contact a Cerritos College Fine Arts Counselor for specific requirements for the school and option selected in order to optimize preparation to transfer.

Available Concentrations: Art History; General Studio Art; Teaching (single subject instruction); Ceramics; Crafts; Creative Photography; Drawing and Painting; Entertainment Art / Animation; Graphic Design; Illustration; Printmaking; and Sculpture.

California State University – Long Beach

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 110	Freehand Drawing	3
ART 112*	Life Drawing	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 130A+	Fundamentals of Painting	3
or ART 130B+	Fundamentals of Painting	(3)
or ART 136+	Painting for Art Majors	(3)

* This course can be substituted with Art 160 for 3-D media, Art Photography, and Ceramics

+ These courses are not required for the Art Photography option; take Phot 100 and art 186 instead.

The above requirements are common for most art options. See a counselor for exceptions and additional major requirements for specific Art options.

Available Options: Art History; Art Education (single subject instruction); Art Photography; Ceramics; Drawing and Painting; Illustration; 3-D Media; Printmaking; Sculpture, Studio Art, Graphic Design, Interior and Industrial design (note: major requirements are different from above. Please see a counselor for more information). The Bachelor of Fine Arts is impacted. Some Art options require a supplemental application and portfolio for admissions. Please see CSULB catalog or an Art counselor.

California State University – Los Angeles

ART 101	Art History I: Prehistory to Gothic	3
and ART 102	Art History II: Renaissance to Rococo	3
ART 110	Freehand Drawing	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3

Available Options: Animation (Traditional and Computer Track); Design; Art Education; Art History; Fashion and Textiles; and Studio Arts. The above requirements are Art core courses only. Please see counselor for additional major requirements within the specific art options.

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

University of California – Irvine

Two courses from:

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 103	Art History III: Neoclassical to Present	3
ART107	Asian Art History	3

Plus, four (4) courses in different media selected from:

ART 110	Freehand Drawing	3
or ART 111	Intermediate Freehand Drawing	(3)
or ART 130A	Fundamentals of Painting	3
130B	Fundamentals of Painting	(3)
ART 136	Painting for Art Majors	(3)
or ART 162	Introduction to Sculpture	3
or ART 163	The Techniques of Sculpture	(3)
ART 155	Beginning Ceramic Sculpture	3
or ART 255	Intermediate Ceramic Sculpture	(3)
PHOT 100	Introductory Photography	3

University of California – Los Angeles

Specific articulation for the major preparation is not available. The following are recommended preparation courses for the major. Exemptions from lower division requirements will be determined by the department after admissions.

ART 103	Art History III: Neoclassical to Present	3
ART 110	Freehand Drawing	3
ART 130A	Fundamentals of Painting	3
ART 150	Introduction to Ceramics	3
ART 162	Introduction to Sculpture	3
PHOT 100	Introductory Photography	3

Plus, courses selected from:

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	(3)
ART 100	Introduction to World Art	(3)

NOTE: supplemental application, statement of interest and goals (in addition to the general

UC Application Personal Statement), and portfolio (of five slides) are required for admissions. Portfolio must be submitted in digital (CD-R) format.

University of California – Riverside

ART 110	Freehand Drawing	3
ART 130A	Fundamentals of Painting	3
or ART 136	Painting for Art Majors	3
PHOT 100	Introductory Photography	3
and PHOT 160	History of Photography	3

Plus, one (1) course selected from:

ART 101	Art History I: Prehistory to Gothic	3
or ART 102	Art History II: Renaissance to Rococo	(3)
and ART 103	Art History III: Neoclassical to Present	(3)

Contact a Cerritos College Fine Arts Counselor for specific requirements for the school and option selected in order to optimize preparation to transfer.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the following: (1) Above transfer requirements, (2) the AA Degree general education requirements, and (3) electives to achieve a minimum of 60 units.

ARTS CAREER OPPORTUNITIES: Self-employed artist/craftsman designer, printmaker, potter, freehand illustrators, private studio, gallery museum or display worker, and curator, art supplies sales, studio or art history instructor, art consultant.

GRAPHIC DESIGN/MULTIMEDIA DESIGN

CAREER OPPORTUNITIES: The Graphic Design track prepares students for careers in the fields of graphic design and desktop publishing. The Multimedia track focuses on electronic media including multimedia and web design.

GENERAL AUTOMOTIVE COLLISION REPAIR (AUTOBODY TECHNICIAN)

CERTIFICATE OF ACHIEVEMENT		UNITS
AB 51	Non-Structural Damage Repair	4.5
AB 52	Structural Damage Repair	4.5
AB 53	Suspension, Alignment and Power Train	4.5
AB 54	Advanced Design Automotive Panel Repair	4.5
AB 55	Structural Panel Replacement	4.5
AB 61	Preparation and Spot Refinishing	4.5
TOTAL CERTIFICATE REQUIREMENT		27

CAREER OPPORTUNITIES: This program prepares students with entry-level knowledge and skills in automotive collision repair, including body and frame repair technician, assistant body and frame repair technician, and shop foreman.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for your chosen Certificate (listed above) plus completes such electives and general education requirements including TM 50 to achieve a minimum of 60 units.

RECOMMENDED ELECTIVES: AB 56, AB 57, AB 58, AB 59A, AB 59B, AB 59C, AB 59E, AB 62, AB 63, AB 65, AB 66, AB 68, AB 73, AB 75, AB 76, AB 77, AB 79, AB 80, AB 83A, AB 83C, AB 83M, AB 86, AB 88, AB 181, AB 182, AB 183, AB 188, AB 281, AB 282, AB 283, AB 285, AB 287, AB 288.

AUTOMOTIVE MECHANICAL REPAIR TECHNOLOGY CERTIFICATES OF ACHIEVEMENT

AUTOMOTIVE MECHANICAL REPAIR TECHNOLOGY-GENERAL TECHNICIAN

	UNITS
AUTO 100 Maintenance	4
AUTO 110 Engines	5
AUTO 120 Automatic Transmissions/Transaxles	5
AUTO 130 Manual Drivetrain and Axles	4
AUTO 140 Automotive Steering and Suspension	5
AUTO 150 Automotive Brakes	5
AUTO 160 Electrical	5
	33

AUTOMOTIVE MECHANICAL REPAIR TECHNOLOGY ELECTRICAL/DIAGNOSIS TECHNICIAN

	UNITS
AUTO 100 Maintenance	4
AUTO 110 Engines	5
AUTO 160 Electrical	5
AUTO 170 Air Conditioning	4
AUTO 180 Electronic Engine Management Systems	5
AUTO 260 Advanced Electrical Systems	4
AUTO 280 Diagnostic Engine Performance	4
AUTO 281 Emission Control	5
	36

AUTOMOTIVE MECHANICAL REPAIR ENGINE/MACHINING TECHNOLOGY

	UNITS
AUTO 100 Maintenance	4
AUTO 110 Engines	5
AUTO 210 Automotive Machine Shop	5
AUTO 211 Advanced Engines	5
AUTO 212 Automotive Specialty	2
	21

AUTOMOTIVE MECHANICAL REPAIR TECHNOLOGY MANUFACTURE SPECIALTY

	UNITS
AUTO 73 Work Experience	15
AUTO 111 Engines	4
AUTO 121 Drivetrain Transmissions and Axles	6
AUTO 151 Brake and Alignment	6
AUTO 161 Electrical	7
AUTO 179 Automotive Air Conditioning	4
AUTO 181 Electronic Engine Management Systems – Corporate	6
	48

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

The completion of 60 units to include 1) courses for completion of an Automotive Certificate option, 2) General Education course requirements to include Technical MATH 50 or TM 50 and 3) electives as needed.

RECOMMENDED ELECTIVES: WELD 100, MTT 100, BCOM 147, BCOM 148, MFGT 100, TM 50.

CAREER OPPORTUNITIES: General Auto Mechanic, Parts Clerk, Mechanical and Auto Agencies or Commercial Fleets, and a variety of automotive specialties.

See Cerritos College Graduation Requirements.

AUTOMOTIVE MECHANICAL REPAIR – INSTALLER VERIFICATION OF COMPLETION

AUTO 1	Engine Maintenance	0.5
AUTO 2	Fuel Systems	0.5
AUTO 3	Lubrication and Cooling	0.5
AUTO 4	Electrical Systems	0.5
AUTO 5	Brakes and Suspension	0.5
AUTO 6	Transmission and Drive Train	0.5
AUTO 7	Air Conditioning and Heating	0.5
		3.5

BIOLOGY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY

	UNITS
BIOL 200 Principles of Biology	5
BIOL 201 Principles of Biology	5
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5
PHYS 101 General Physics	4
PHYS 102 General Physics	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State Polytechnic University – Pomona

CHEM 211 Organic Chemistry	5
CHEM 212 Organic Chemistry	5
MATH 112 Elementary Statistics	4
MATH 116 Calculus for Managerial, Biological, and Social Sciences	4
MICRO 200 Principles & Applications of Microbiology	5

RECOMMENDED GENERAL EDUCATION COURSES

ENGL 102 Freshman Composition and Literature	3
or ENGL 103 Critical and Argumentative Writing	3
HED 100 Contemporary Health Problems	3
or PSYC 101 General Introductory Psychology	3
or PSYC 150 Personal and Social Adjustment	3
or PSYC 241 Introduction to Psychobiology	3

See counselor for other options.

California State University – Dominguez Hills

MATH 112 Elementary Statistics (Required for B.A. degree and B.S. degree)	4

NOTE: Math 170 or Math 116 also required for B.S. degree only.

California State University – Fullerton

There are four concentrations within the Biological Science Major: "Biodiversity, Ecology & Conservation Biology", "Cell & Developmental Biology", "Marine Biology" and "Molecular Biology & Biotechnology".

BIOL 202 Molecular Biology/Genetics	4
CHEM 211 Organic Chemistry	5
CHEM 212 Organic Chemistry	5
MATH 170 Analytic Geometry and Calculus I	4
or MATH 116 Calculus for Managerial, Biological, and Social Sciences	(4)

California State University – Long Beach

GENERAL OPTION

MATH 116* Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170 Analytic Geometry and Calculus I	4
and MATH 190 Analytic Geometry and Calculus II	4

OPTION IN BIOLOGY EDUCATION

ASTR 101 Elementary Astronomy	3
BIOL115 Marine Biology	3
GEOL 101 Physical Geology	4
or ESCI 110 Introduction to Earth Science	(4)
MATH 170 Analytic Geometry and Calculus I	4
or MATH 116 Calculus for Managerial, Biological, and Social Sciences	(4)
MICR 200 Principles & Application of Microbiology	5

OPTION IN BOTANY

MATH 116* Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170 Analytic Geometry and Calculus I	4
and MATH 190 Analytic Geometry and Calculus II	4

OPTION IN CELL & MOLECULAR BIOLOGY

MICR 200 Principles & Application of Microbiology	5
MATH 116* Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170 Analytic Geometry and Calculus I	4
and MATH 190 Analytic Geometry and Calculus II	4

OPTION IN ECOLOGY

GEOL 101 Physical Geology	4
or ESCI 110 Introduction to Earth Science	(4)
MATH 116* Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170 Analytic Geometry and Calculus I	4
and MATH 190 Analytic Geometry and Calculus II	4

OPTION IN PHYSIOLOGY

MATH 116* Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170 Analytic Geometry and Calculus I	4
and MATH 190 Analytic Geometry and Calculus II	4

OPTION IN ZOOLOGY

GEOL 101 Physical Geology	4
or ESCI 110 Introduction to Earth Science	(4)
or MICR 200 Principles & Applications of Microbiology	(5)
MATH 116* Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170 Analytic Geometry and Calculus I	4
and MATH 190 Analytic Geometry and Calculus II	4

*After Math 116 an additional math class must be completed at CSULB after transfer.

California State University – Los Angeles

CHEM 205 Quantitative Analysis Chemistry	4
MATH 116 Calculus for Managerial, Biological, and Social Sciences	4
MATH 170 Analytic Geometry and Calculus I	4

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for its writing proficiency requirement.

COMMON LOWER DIVISION MAJOR PREPARATION FOR UNIVERSITY OF CALIFORNIA

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

University of California – Irvine

BIOL202	Molecular Biology/Genetics	4
MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4
or MATH 170	Analytic Geometry and Calculus I	(4)
and MATH 112	Elementary Statistics	(4)
or PSYC 210	Elementary Statistics	(4)
PHYS 203*	Engineering Physics	4

*(PHYS 203 may substitute for PHYS 202)

University of California – Los Angeles

BIOL 202	Molecular Biology/Genetics	4
MATH 112*	Elementary Statistics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 203	Engineering Physics	4

*This statistic course will no longer be acceptable for students transferring to UCLA in Fall 2008.

University of California – Riverside

MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 203	Engineering Physics	4

UCR offers a Biology B.A., Biology B.S. and a Biological Sciences B.S. The Biological Sciences major differs from the Biology Major in the structure of the upper division course work. In the Biological Sciences major, students choose one of eight upper division tracks of specialized coursework. Those tracks are: Biology; Cell/Molecular and Developmental Biology; Conservation Biology; Environmental Toxicology; Evolution and Ecology; Microbiology; Plant Biology; and Medical Biology.

For the Conservation Biology Track also complete GEOG 101 & GEOG 101L.

For the Biology Track take two courses from: CIS 180 or CIS 280 or CIS 292 or CIS 230.

Students intending to meet lower division requirements for any school or division of the University of California should consult the catalog of that institution in addition to checking the ASSIST.ORG Articulation.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the 60 units to include (1) The CSU or UC common lower division preparation, (2) MATH 116 OR 170 (3) the Associate in Arts general education degree requirements.

CAREER OPPORTUNITIES: The Bachelor's Degree programs with an emphasis in Biology are designed to qualify the student to enter graduate schools, to enter teaching at the secondary level, and are appropriate for some applied work in laboratories, federal employment, state civil service and the pharmaceutical industry.

BOTANY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

		UNITS
BIOL200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Long Beach (Option within the Biology Major)

MATH 116	Calculus for Managerial, Biological and Social Sciences	4
or MATH 170	Analytical Geometry and Calculus I	(4)
MATH 190	Analytical Geometry and Calculus II	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4

California State Polytechnic University – Pomona

CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)
HED 100	Contemporary Health Problems	3
or PSYC 101	General Introductory Psychology	(3)
or PSYC 150	Personal and Social Adjustment	(3)
or PSYC 241	Introduction to Psychobiology	(3)
MATH 112	Elementary Statistics	4
MATH 116	Calculus for Managerial, Biological and Social Science	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4
HED 100	Contemporary Health Problems	3
or PSYC 101	General Introductory Psychology	(3)
or PSYC 150	Personal and Social Adjustment	(3)
or PSYC 241	Introduction to Psychobiology	(3)

University of California – Riverside

BOT 120	Introduction to Plant Science	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
MATH 170	Analytical Geometry and Calculus I	4
MATH 190	Analytical Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
ZOOL 120	Introduction to Animal Biology	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include: (1) the above required courses, (2) electives as needed, and (3) the Associate in Arts Degree General Education requirements.

CAREER OPPORTUNITIES: Bachelor's Degree programs with an emphasis in Botany are designed to qualify the student for graduate study in the field; for teaching through the high school level; for applied work with Federal, State park, forestry and agricultural services, and with private industry.

See Cerritos College Graduation Requirements.

See State University General Education List.

ACCOUNTING PROGRAMS

ACCOUNTING CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
*ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
ACCT 131	Computerized Accounting-IBM	3.5
ACCT 133	Computerized Spreadsheet Accounting	3.5
ACCT 201	Intermediate Accounting I	4
ACCT 202	Intermediate Accounting II	4
FIN 125	Personal Finance	3
or ACCT 60	Quickbooks Accounting	(2)
and ACCT 61	Turbo Tax Accounting	(2)
ACCT 240	Cost Accounting	4
or ACCT 241	Managerial Accounting	(4)
ACCT 250	Income Tax Accounting	3
or ACCT 130	Payroll Tax Accounting	(3)
FIN 51	Retirement Planning and Investing	1.5
TOTAL CERTIFICATE REQUIREMENTS:		34.5

*Prerequisite for ACCT 101 is ACCT 100

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Accounting and complete general education requirements to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

OTHER RECOMMENDED COURSES:

BA 100	Fundamentals of Business	3
LAW 111	Business Law	3
BCOM 147	Business Communications	3

*Prerequisite for BUSA 101 - BUSA 100.

Please see a Business counselor or the respective department chairperson for additional alternatives.

See Cerritos College Graduation Requirements.

ACCOUNTING—ADVANCED ACCOUNTING

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
Complete the Accounting Certificate Requirements—plus any three of the following four courses:		35
ACCT 240	Cost Accounting	4
ACCT 241	Managerial Accounting	4
ACCT 270	Fundamentals of Auditing	3
ACCT 280	Advanced Accounting	3
TOTAL CERTIFICATE REQUIREMENTS:		45/46

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Advanced Accounting and complete general education requirements to achieve a minimum of 60 units.

OTHER RECOMMENDED COURSE:

LAW 110	Business Law	3

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see a Business counselor or the respective department chairperson for additional alternatives.

ACCOUNTING—MICROCOMPUTER

ACCOUNTING CLERK

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 131	Computerized Accounting-IBM	3.5
ACCT 133	Computerized Spreadsheet Accounting	3.5
FIN 125	Personal Finance	3
or ACCT 60	QuickBooks Accounting	(2)
and ACCT 61	Turbo Tax Accounting	(2)
FIN 51	Retirement Planning and Investing	1.5
CIS 102	Introduction to Microcomputer Hardware & Applications Software	3
TOTAL CERTIFICATE REQUIREMENTS:		21.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Microcomputer Accounting Clerk and complete general education requirements to achieve a minimum of 60 units.

OTHER RECOMMENDED COURSES:

*ACCT 130	Payroll Tax Accounting	3
LAW 111	Business Law	3
BCOT 108	WordPerfect for Windows	3.5
or BCOT 112	Word for Windows	(3.5)
BCOM 147	Business Communications	3
INSR 121	Insurance Principles: Property and Liability	3

*Required for Advanced Microcomputer Accounting Clerk Certificate

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see a Business Counselor or the respective department chairperson for additional alternatives.

ACCOUNTING – PAYROLL ADMINISTRATION CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
ACCT 60	Quickbooks Accounting	2
ACCT 100	Introduction to Accounting	3
ACCT 130	Payroll Tax Accounting	3
ACCT 133	Computerized Spreadsheet Accounting	3.5
ACCT 230	Advanced Payroll Accounting	3
or ACCT 250	Income Tax Accounting	(3)
ACCT 231	Current Topics in Payroll	1.5
LAW 105	Intro to Federal and California Employment, Labor, and Workers' Compensation Law	3
BA 106	Human Resources Development	3
TOTAL CERTIFICATE REQUIREMENTS:		22

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Payroll Administration and complete general education requirements to achieve a minimum of 60 units.

OTHER RECOMMENDED COURSES:

ACCT 101	Fundamentals of Accounting I	4
ACCT 131	Computerized Accounting –IBM	3.5
BA 117	Introduction to Supervision	3
BCOM 46	Business Communications	3
BCOT 114	Introduction to Microsoft Office	3.5
or CIS 102	Introduction to Microcomputer Hardware and Applications Software	3

NOTE: Although many of these courses are transferable, this certificate/AA degree is nontransferable.

Please see a Business Counselor or the respective department chairperson for additional alternatives.

ADVANCED MICROCOMPUTER ACCOUNTING CLERK CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
Complete Microcomputer Accounting Clerk Certificate Requirements: 22 units		

Plus any three of the following courses:

ACCT 130	Payroll Tax Accounting	3
ACCT 250	Income Tax Accounting	3
LAW 111	Business Law	3

or BA 100 Fundamentals of Business (3)

TOTAL CERTIFICATE REQUIREMENTS: 31

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for Certificate of Achievement in Advanced Microcomputer Accounting Clerk and complete general education requirements to achieve a minimum of 60 units.

OTHER RECOMMENDED COURSES:

BA 100	Fundamentals of Business	3
LAW 111	Business Law	3
BCOT 108	WordPerfect for Windows	3.5
or BCOT 112	Word for Windows	(3.5)

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see a Business Counselor or the respective department for additional alternatives.

BUSINESS ADMINISTRATION PROGRAMS HUMAN RESOURCES MANAGEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
BA 50	Math for Business and Finance	3
BA 105	Personnel-Policy and Procedures	3
BA 113	Legal Environment of Business	3
or LAW 111	Business Law	(3)
BA 104	Managing Cultural Diversity	3
BA 106	Human Resource Management	3
BA 107	Human Relations in Business	3
BA 108	Labor Management Relations	3
BA 132	Computer Applications for Managers	3
or CIS 101	Introduction to Computer Information Systems	(3)
BA 156	Motivational Presentation Skills for Managers	3
BA 203	Management-Department Operations	3
BCOM 147	Business Communications	3
or BCOM 148	Effective Business Presentations	(3)
TOTAL CERTIFICATE REQUIREMENT		33

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

1) Meet the division/department requirements; 2) Take 10 additional BA units of your choice (from BA 100 and above); 3) Complete the necessary identified general education courses to meet the Plan A, Plan B, or Plan C requirements; 4) Complete the proficiency requirements and electives, if necessary to total a minimum of 60 degree applicable units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

CAREER OPPORTUNITIES: Prepares the student for a variety of career opportunities in business, industry, government, and self-employment

Please see Business Counselors or the respective department for additional alternatives.

See Cerritos College graduation requirements.

BUSINESS ADMINISTRATION BUSINESS ADMINISTRATION MINOR VERIFICATION OF COMPLETION (9 UNITS)

Complete, with a grade of Credit or "C" or higher, BA 100 and two additional Business Administration courses which have been determined in consultation with a full-time business instructor, or counselor, to enhance the student's individual employment success.

Upon receiving your Verification of Completion or AA degree, a statement will be placed on your official transcript that you have completed the requirements for a Minor in Business Administration.

A separate certification of completion of the requirements for a Minor in Business Administration can also be issued. Check with department for details.

CAREER OPPORTUNITIES: This minor combined with your major provides significant preparation for employment in business, private industry, and self-employment.

BUSINESS ADMINISTRATION CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
BA 100	Fundamentals of Business	3
LAW 111	Business Law	3
or BA 113	Legal Environment of Business	(3)
BA 114	Marketing	3
or ECON 201	Principles of Macroeconomics	(3)
BA 115	Management Business	3
BA 120	Management – Accounting and Internal Control	3
or ACCT 100	Introduction to Accounting	(3)
BA 132	Computer Applications for Managers	3
or CIS 101	Introduction to Computer Information Systems	(3)
TOTAL CERTIFICATE REQUIREMENTS:		18

RECOMMENDED COURSES:

BA 101	International Business	3
BA 104	Managing Cultural Diversity	3
BA 106	Human Resource Management	3
BA 107	Human Relations in Business	3
BA 156	Motivational Presentation Skills for Management	3
BA 157	Principles of Public Relations	3
or JOUR 157	Principles of Public Relations	(3)
BA 171-174	Business Administration Work Experience	1-4
BA 204	Project Management	3
BA 205	Organizational Leadership	3
LAW 101	Introduction to Law	3
RE 101	Real Estate Principles	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Plan A (Degree and/or Career Option): Meet the requirements for a Certificate of Achievement in Business Administration (18 units). Take 12 units of the Recommended Courses. Complete 18 units of identified general education courses (see Plan A Degree and/or Career Option), proficiency requirements and electives, if necessary, to total a minimum of 60 degree applicable units.

Plan B (CSU General Education Requirements): Meet the requirements for a Certificate of Achievement in Business Administration (18 units). Complete a minimum of 39 units of identified CSU general education courses (see Plan B CSU General Education Requirements), the health and wellness proficiency requirement, and elective courses, if necessary, for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institutions as listed.

Plan C (Intersegmental General Education Transfer Curriculum – IGETC – For Transfer to UC and CSU): Meet the requirements for a Certificate of Achievement in Business Administration (18 units). Complete a minimum of 35 (UC) or 38 (CSU) units of identified general education courses (see Plan C – IGETC General Education Requirements), the health and wellness proficiency requirement, and elective courses, if necessary, for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institutions as listed.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

CAREER OPPORTUNITIES: Prepares the student for a variety of career opportunities in business, industry, government, and self-employment.

Please see Business Counselors or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

INTERNATIONAL BUSINESS CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
BA 52	Fundamentals of Importing and Exporting	3
or BA 155	Introduction to Global Logistics	(3)
BA 101	International Business	3
BA 102	International Business Law	3
or BA 113	Legal Environment of Business	(3)
BA 104	Managing Cultural Diversity	3
or BA 107	Human Relations in Business	(3)
BA 114	Marketing	3
BA 120	Management – Accounting and Internal Control	3
or ACCT 100	Introduction to Accounting	(3)
ECON 101	U.S. & Global Economy	3
or ECON 201	Principles of Macroeconomics	(3)
TOTAL CERTIFICATE REQUIREMENT		21

RECOMMENDED COURSES:

ANTH 100	Cultural Anthropology	3
BA 106	Human Resource Management	3
LAW 111	Business Law	3
BA 132	Computer Applications for Managers	3
BA 156	Motivational Presentation Skills for Managers	3
BA 171-174	Business Administration Work Experience	1-4
BA 204	Project Management	3
BA 205	Organizational Leadership	3
BCOM 150	International Business Communication	3
or BA 157	Principles of Public Relations	3
or JOUR 157	Principles of Public Relations	3

LAW 101	Introduction to Law	3
LAW 111	Business Law	3
GEOG 105	World Regional Geography	3
PHIL 200	World Religions	3
POL 210	International Relations	3

A Foreign Language is recommended

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in International Business. Take 12 units of the Recommended Courses. Complete general education requirements and electives to achieve a minimum of 60 units. If you already have an AA, BA, or Master's Degree from a regionally accredited college and meet the Cerritos College General Education requirements, complete the Certificate Requirements to earn an AA in International Business.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

CAREER OPPORTUNITIES: Prepares the student for a variety of career opportunities in global business, industry, government, and self-employment.

Please see Business Counselors or the respective department for additional alternatives.

RETAIL MANAGEMENT CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
BA 50	Business Math (or equivalent)	3
BA 106	Human Resource Management	3
BA 107	Human Relations in Business	3
BA 114	Marketing	3
BA 115	Management-Business	3
BA 120	Management-Accounting and Internal Control	3
or ACCT 100	Introduction to Accounting	(3)
BA 123	Management – Retailing	3
or BA 117	Fundamentals of Supervision	(3)
BA 132	Computer Applications for Managers	3
or BCOT 114	Introduction to Microsoft Office	(3)
BA 156	Motivational Presentation Skills for Managers	3
or BCOM 148	Effective Business Presentations	(3)
BA 157	Principles of Public Relations	3
or JOUR 157	Principles of Public Relations	(3)
or BCOM 147	Business Communications	3
TOTAL CERTIFICATE REQUIREMENTS:		30

RECOMMENDED COURSES:

BA 104	Managing Cultural Diversity	3
BA 110	Advertising	3
LAW 111	Business Law	3
BA 113	Legal Environment of Business	3
BA 153	Small Business Management	3
BA 204	Project Management	3
BA 205	Organizational Leadership	3
LAW 101	Introduction to Law	3
RE 101	Real Estate Principles	3
BA 171-174	Business Administration Work Experience	1-4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Plan A (Degree and/or Career Option): Meet the requirements for a Certificate or Achievement in Retail Management (30 units). Take 12 units of the Recommended Courses. Complete 18 units of identified general education courses (see Plan A Degree and/or Career Option), proficiency requirements and electives, if necessary to total a minimum of 60 degree applicable units.

Plan B (CSU General Education Requirement): Meet the requirements for the Certificate of Achievement in Retail Management (30 units). Complete a minimum of 39 units of identified CSU general education courses (see Plan B CSU General Education Requirements), the health and wellness proficiency requirements and elective courses, if necessary for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institution as listed.

Plan C (Intersegmental General Education Transfer Curriculum – IGETC – For Transfer to UC and CSU): Meet the requirements for a certificate of Achievement in retail Management (18 units). Complete a minimum of 35 (UC) or 38 (CSU) units of identified general education courses (see Plan C – IGETC General Education Requirements), the health and wellness proficiency requirements, and elective courses, if necessary, for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institution as listed.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

CAREER OPPORTUNITIES: Prepares the student for a variety of career opportunities in business, industry, government, and self-employment.

Please see Business Counselors or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

BUSINESS ADMINISTRATION TRANSFER PROGRAM

LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University - Dominguez Hills

LAW 111	Business Law	3
ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
POL 210	International Relations for International Business Concentration	3

Plus, a transfer level Math course from General Education- (Math 112, 115, or 116 recommended).

Curricula, Requirements for Majors, Certificates and Transfer Programs

California State University - Fullerton

BA 113	Legal Environment of Business	3
ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
ACCT 133	Spreadsheet Accounting I	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170	Analytical Geometry and Calculus I	(4)

ECON 201 can be doubled counted for the major and the Cal State University General Education requirements. CSUF also requires a lower division business writing course not offered at Cerritos College.

California State University - Los Angeles

LAW 111	Business Law	3
or BA 113	Legal Environment of Business	3
ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 112	Elementary Statistics	4

Students are advised to complete ENGL 103 as their Critical Thinking requirement.

This will meet a graduation requirement at CSULA.

California State University - Long Beach

LAW 111	Business Law	3
ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102*	Fundamentals of Accounting II	4
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 112	Elementary Statistics	3
or MATH 115*	Finite Mathematics	4
or PSYCH 210	Elementary Statistics	4
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4

Every Business Administration major at CSULB must take either PHIL 106 (Logic) or PHIL 102 (Ethics). If you plan to specialize in MIS, you must take PHIL106. If you plan on specializing in Accounting you must take PHIL 102. Specialists in Accounting must take a course in Anthropology, Psychology, or Sociology.

* Recommended, not required.

* Subject to change. See counselor for details.

International Business majors need four semesters of a foreign language.

California State Polytechnic University – Pomona

LAW 111	Business Law	3
ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
or ACCT 241	Managerial Accounting	4
CIS 102	Introduction to Microcomputer Hardware and Application Software	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 112	Elementary Statistics	4

Majors in Accounting or Finance and Law must take Math 116 and either English 102 or 103.

University of Southern California

ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
ECON 201	Principles of Macroeconomics	3
ECON202	Principles of Microeconomics	3
ENGL 100	Freshman Composition	3
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)
or PHIL 202	Critical Thinking and Argumentative Writing	(3)
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170	Analytical Geometry and Calculus I	(4)

University of California - Riverside

BA 100	Fundamentals of Business	3
ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
CIS 101	Introduction to Computer Information Systems	3
or CIS 102	Introduction to Microcomputer Hardware and Applications Software	(3)
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
MATH 116	Calculus for Managerial, Biological and Social Sciences	4
or MATH 170	Analytical Geometry and Calculus I	(4)

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the following common lower division requirements: ACCT 100, ACCT 101, LAW 111 or BA 113, CIS 101, ECON 201 and 202 and one transfer level MATH course. Plus, the General Education requirements and Proficiencies for the AA Degree and achieve a minimum of 60 degree applicable units.

CAREER OPPORTUNITIES: Career opportunities are numerous and depend on the specialization selected, ranging from independent practice as a Certified Public Accountant to corporate leadership in a multinational company.

See Cerritos College Graduation Requirements.
See State University General Education List

BUSINESS MANAGEMENT CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
BA 100	Fundamentals of Business	3
BA 101	International Business	3
or BA 117	Fundamentals of supervision	(3)
or BA 153	Small Business Management	(3)
BA 107	Human Relations in Business	3
BA 113	Legal Environment of Business	3
or LAW 111	Business Law	(3)
BA 115	Management-Business	3
BA 132	Computer Applications for Managers	3
or BA 156	Motivational Presentation Skills for Managers	(3)
TOTAL CERTIFICATE REQUIREMENTS:		18

RECOMMENDED COURSES

BA 104	Managing Cultural Diversity	3
BA 106	Human Resource Management	3
BA 113	Legal Environment of Business	3
BA 120	Management – Accounting and Internal Control	3
BA 157	Principles of Public Relations	3
or JOUR 157	Principles of Public Relations	(3)
BA 171-174	Business Administration Work Experience	1-4
BA 204	Project Management	3
BA 205	Organizational Leadership	3
LAW 101	Introduction to Law	3
RE 101	Real Estate Principles	3

NATIONAL MANAGEMENT ASSOCIATION'S (NMA) COURSES SUPERVISORY & MANAGEMENT SKILLS

BA 65	NMA Role of the Supervisor	1
BA 66	NMA Management Principles	1
BA 67	NMA Communication Skills	1
BA 68	NMA Interpersonal Relationship Skills	1
BA 69	NMA Developing Performance	1
BA 75	NMA New Employee	1
BA 76	NMA Coaching and Counseling	1
BA 77	NMA Leadership Development	1
BA 78	NMA Business Concepts	1
BA 79	NMA Law for the Supervisor	1

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Plan A (Degree and/or Career Option): Meet the requirements for a Certificate of Achievement in Business Management (18 units). Take 12 units of the recommended Courses. Complete 18 units of identified general education courses (see Plan A Degree and/or Career Option), proficiency requirements and electives, if necessary, to total a minimum of 60 degree applicable units.

Plan B (CSU General Education Requirements): Meet the requirements for a Certificate of Achievement in Business Management (18 units). Complete a minimum of 39 units of identified CSU general education courses (see Plan B CSU General Education Requirements), the health and wellness proficiency requirement, and elective courses, if necessary, for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institutions as listed.

Plan C (Intersegmental General Education Transfer Curriculum – IGETC – For Transfer to UC and CSU): Meet the requirements for a Certificate of Achievement in Business Management (18 units). Complete a minimum of 35 (UC) or 38 (CSU) units of identified general education courses (see Plan C – IGETC General Education Requirements), the health and wellness proficiency requirement, and elective courses, if necessary, for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institutions as listed.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

CAREER OPPORTUNITIES: Prepares the student for a variety of career opportunities in business, industry, government and self-employment.

Please see Business Counselors or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

SMALL BUSINESS MANAGEMENT/ ENTREPRENEURSHIP CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
BA 153	Small Business Management	3
BA 114	Marketing	3
LAW 111	Business Law	3
or BA 113	Legal Environment of Business	(3)
BA 117	Supervision	3
BA 120	Management Accounting and Internal Control	3
or ACCT 100	Introduction to Accounting	(3)
BA 132	Computer applications for Managers	3
or BCOT 114	Introduction to Microsoft Office	(3)
TOTAL CERTIFICATE REQUIREMENTS:		18

RECOMMENDED COURSE:

BA 50	Business Math	3
BA 52	Fundamentals of Importing and Exporting	3
BA 62	Business on the Internet	1.5
BA 63	How to Start a Home-based Business	1.5
BA 104	Managing Cultural Diversity	3
BA 110	Advertising	3
BA 118	Management – Retailing	3
BA 121	Sales	3
BA 156	Motivational Presentation Skills for Managers	3
BA 157	Principles of Public Relations	3
or JOUR 157	Principles of Public Relations	(3)
BA 171-174	Business Administration Occupational Work Experience	1-4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

1. Meet the requirement for a Certificate of Achievement in Small Business Management/Entrepreneurship.
2. Take twelve units of the recommended courses not used for Department/Division requirements.
3. Complete general education requirements and electives to achieve a minimum of 60 units.
4. If you already have an AA degree or higher from a regionally accredited college, and you meet the Cerritos College General Education proficiency requirements, complete the Certificate Requirements to earn an AA in Small Business Management/Entrepreneurship.

NOTE: Although many of the courses are transferable, the certificate/AA Degree is nontransferable.

CAREER OPPORTUNITIES: Prepares the student for a variety of career opportunities in business, industry, government, and self-employment.

Please see Business Counselor or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

BUSINESS MARKETING CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
BA 100 Fundamentals of Business	3
BA 101 International Business	3
BA 107 Human Relations in Business	3
BA 110 Advertising	3
BA 114 Marketing	3
BA 121 Sales	3
TOTAL CERTIFICATE REQUIREMENTS:	18

RECOMMENDED COURSES:

BA 104 Managing Cultural Diversity	3
BA 106 Human Resource Management	3
BA 113 Legal Environment of Business	3
BA 115 Management – Business	3
BA 120 Management – Accounting and Internal Control	3
BA 132 Computer Applications for Managers	3
BA 156 Motivational Presentation Skills for Managers	3
BA 157 Principles of Public Relations	3
or JOUR 157 Principles of Public Relations	(3)
BA 171-174 Business Administration Work Experience	1-4
RE 101 Real Estate Principles	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Plan A (Degree and/or Career Option): Meet the requirements for a Certificate of Achievement in Business Marketing (18 units). Take 12 units of the recommended Courses. Complete 18 units of identified general education courses (see Plan A Degree and/or Career Option), proficiency requirements and electives, if necessary, to total a minimum of 60 degree applicable units.

Plan B (CSU General Education Requirements): Meet the requirements for a Certificate of Achievement in Business Marketing

(18 units). Complete a minimum of 39 units of identified CSU general education courses (see Plan B CSU General Education Requirements), the health and wellness proficiency requirement, and elective courses, if necessary, for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institutions as listed.

Plan C (Intersegmental General Education Transfer Curriculum – IGETC – For Transfer to UC and CSU): Meet the requirements for a Certificate of Achievement in Business Marketing (18 units). Complete a minimum of 35 (UC) or 38 (CSU) units of identified general education courses (see Plan C – IGETC General Education Requirements), the health and wellness proficiency requirement, and elective courses, if necessary, for a minimum of 60 degree applicable units. Please check lower division major requirements for specified transfer institutions as listed.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

CAREER OPPORTUNITIES: Prepares the student for a variety of career opportunities in business, industry, government, and self-employment.

Please see Business counselors or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

BUSINESS COMPUTERIZED OFFICE TECHNOLOGIES PROGRAM BUSINESS COMMUNICATIONS VERIFICATION OF COMPLETION

DIVISON /DEPARTMENT REQUIREMENTS	UNITS
BCOM 46 Business communications	3
BCOM 60 Customer Service/Telephone Techniques	1
BCOM 152 Job Search in the Business Field	1.5
BCOT 63 Keyboarding Speed/Control Building	1
BCOT 114 Introduction to Microsoft Office	3.5
BCOT 131 Beginning College Keyboarding & Document Processing	3.5
BCOT 161 Principles of Filing	1
BCOT 162 Business Spelling and Proofreading Skills	1

TOTAL VERIFICATION OF COMPLETION REQUIREMENTS: 17.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Verification of Completion in Business Communications – and complete general education requirement and electives to achieve a minimum of 60 units. Although many of these courses are transferable, this certificate/AA degree is nontransferable. Please see business counselors or the respective department chairperson for additional alternatives.

NOTE: Although many of these courses are transferable, this verification of completion is nontransferable.

Please see Business counselors or the respective department chairperson for additional alternatives.

MICROSOFT OFFICE USER SPECIALIST (MOS) CERTIFICATION ACADEMY VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
BCOT 112 Microsoft Word	3.5
BCOT 113 Microsoft Excel	3.5
CIS 155 Microsoft Access	3
BCOT 96 Microsoft PowerPoint	1.5
BCOT 97 Microsoft Outlook	1.5
TOTAL REQUIREMENTS:	13
Elective: BCOT 95, BCOT 120	

NOTE: Although many of these courses are transferable, this verification of completion is nontransferable.

Please see Business counselors or the respective department for additional alternatives.

LEGAL SECRETARIAL PROGRAM LEGAL SECRETARY CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
BCOM 147 Business Communications	3
BCOM 152 Job Search in the Business Field	1.5
BCOT 63 Keyboarding Speed/Control Building	1
BCOT 80 Processing Law Office Documents	2
or LAW 57 Legal Document Production	3
BCOT 81 Legal Office Procedures	4
BCOT 83 Legal Office Terminology/Machine Transcription	4.5
BCOT 112 Microsoft Word	3.5
BCOT 133 Advanced College Keyboarding & Document Processing	3.5
or BCOT 120 Integrated Business Office Projects	(3.5)
BCOT 162 Business Spelling and Proofreading Skills	3
LAW 101 Introduction to Law	3
TOTAL CERTIFICATE REQUIREMENTS:	30/31

ASSOCIATE IN ARTS REQUIREMENT:

Meet the requirements for a Certificate of Achievement in Legal Secretary and complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable. Please see a Business counselor or the respective department chairperson for additional alternatives.

OFFICE PROGRAM FILE CLERK VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
BCOM 152 Job Search in the Business Field	1.5
BCOT 131 Beginning College Keyboarding & Document Processing	3.5
or BCOT 132 College Keyboarding & Document Processing Review	(2)
BCOT 161 Principles of Filing	1
BCOT 162 Business Spelling and Proofreading Skills	3
TOTAL REQUIREMENTS	7.5/9

NOTE: Although many of these courses are transferable, this Verification of Completion is nontransferable.

Please see Business counselors or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

GENERAL OFFICE CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
BCOM 46 Business Communications	3
BCOM 60 Telephone Customer Service/Techniques	1
BCOM 147 Business Communications	3
BCOM 152 Job Search in the Business Field	1.5
BCOT 63 Keyboarding Speed/Control Building (Two 9-week classes)	2
BCOT 112 Microsoft Word	3.5
BCOT 114 Introduction to Microsoft Office	3.5
BCOT 131 Beginning College Keyboarding & Document Processing	3.5
or BCOT 132 College Keyboarding & Document Processing Review	(2)
BCOT 133 Advanced College Keyboarding & Document Processing	3.5
BCOT 161 Principles of Filing	1
BCOT 162 Business Spelling and Proofreading Skills	3
TOTAL CERTIFICATE REQUIREMENTS:	27/28.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in General Office. Complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see Business counselors or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

RECEPTIONIST VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOM 152	Job Search in the Business Field	1.5
BCOM 60	Customer Service/Telephone Techniques	1
BCOT 161	Principles of Filing	1
TOTAL REQUIREMENTS:		5.5

NOTE: Although many of these courses are transferable, this Verification of Completion is nontransferable.

Please see Business counselors or the respective department for additional alternatives.

See Cerritos College Graduation Requirements.

WORD PROCESSING CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOM 46	Business Communications	3
BCOM 147	Business Communications	3
BCOM 152	Job Search in the Business Field	1.5
BCOT 63	Keyboarding Speed/Control Building	2
BCOT 112	Microsoft Word	3.5
BCOT 131	Beginning College Keyboarding & Document Processing	3.5
or BCOT 132	College Keyboarding & Document Processing Review	(2)
BCOT 133	Advanced College Keyboarding & Document Processing	3.5
BCOT 161	Principles of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
TOTAL CERTIFICATE REQUIREMENTS:		22.5/24

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Word Processing.

Complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see Business counselors or the respective department for additional alternatives.

SECRETARIAL PROGRAM SECRETARY/ADMINISTRATIVE ASSISTANT CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOM 60	Customer Service/Telephone Techniques	1
BCOM 147	Business Communications	3
BCOM 152	Job Search in the Business Field	1.5

BCOT 63	Keyboarding Speed/Control Building (Two 9 – week classes)	2
BCOT 96	Microsoft PowerPoint	1.5
BCOT 97	Microsoft Outlook	1.5
BCOT 112	Microsoft Word	3.5
BCOT 113	Microsoft Excel	3.5
BCOT 114	Introduction to Microsoft Office	3.5
BCOT 116	Desktop Publishing – Word for Windows	1.5
or BCOT 117	Desktop Publishing – Microsoft Publisher	(1.5)
BCOT 133	Advanced College Keyboarding & Document Processing	3.5
or BCOT 120	Integrated Business Office Projects	(3.5)
BCOT 155	Administrative Secretarial Procedures	4
BCOT 161	Principles of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
TOTAL CERTIFICATE REQUIREMENTS:		34.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Secretary/Administrative Assistant and complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see Business counselors or the respective department chairperson for additional alternatives.

MEDICAL TRANSCRIPTIONIST VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOM 46	Business Communications	3
BCOT 63	Keyboarding Speed/Control Building	1
BCOT 70	Medical Machine Transcription	4
BCOT 112	Microsoft Word	3.5
or BCOT 131	Beginning College Keyboarding & Document Processing	(3.5)
BCOT 162	Business Spelling and Proofreading Skills	3
MA 161	Medical Terminology	3

TOTAL REQUIREMENTS: 17.5

OPTIONAL SPECIALTY

COMPLETION OF ALL THE COURSES LISTED BELOW:

SECRETARY - MEDICAL ENVIRONMENT

BCOT 71	Computers in the Medical Office	3.5
BCOT 112	Microsoft Word	3.5
BCOT 131	Beginning College Keyboarding & Documents Processing	3.5
BCOT 155	Administrative Secretarial Procedures	4
BCOT 162	Business Spelling and Proofreading Skills	3

TOTAL REQUIREMENTS: 17

Although many of these courses are transferable, this Verification of Completion is nontransferable.

Please see Business Counselors or the respective department chair person for additional alternatives.

BUSINESS LEGAL PROGRAM PARALEGAL ASSOCIATE IN ARTS DEGREE

SECTION A - LEGAL SPECIALTY CORE REQUIREMENTS:

		UNITS
LAW 56	Introduction to Computerized Legal Software	3
LAW 100	Introduction to California Civil Procedures	3
LAW 101	Introduction to Law	3
LAW 102	Advanced California Civil Procedures	3
or LAW 113	Fundamentals of Alternate Dispute Resolutions	(3)
LAW 103	Legal Research	3
LAW 111	Business Law	3
LAW 120	Legal Ethics	3

21

PLUS 6 UNITS SELECTED FROM THE COURSES IN SECTION "B" WITH AN ASTERISK *

PARALEGAL PROGRAM REQUIREMENT:

LAW 111	Business Law	3

SECTION B

Must Complete Additional Units for a Total of 33 as are needed for an AA Degree from these Legal Specialty Courses

LAW 52*	Law Office Management	3
LAW 57*	Legal Document Production	3
LAW 65*	Advanced Legal Technology	3
LAW 102*	Advanced California Civil Procedures	3
LAW 104*	Advanced Legal Research	3
LAW 105*	Introduction to Federal and California Employment, Labor, and Workers' Compensation Law	3
LAW 106*	Bankruptcy Law	3
LAW 107*	Probate Procedures	3
LAW 108*	Family Law Procedures	3
LAW 109*	Torts and Personal Injury Law and Procedures	3
LAW 110*	Business Law	3
LAW 112*	Estate Planning for the Paralegal	3
LAW 113*	Fundamentals of Alternate Dispute Resolutions	3
LAW 114*	Law on the Internet	1.5
LAW 115*	Elder Law	3
LAW 116*	Criminal Law	3
LAW 171-174*	Business Paralegal Occupational Work Experience	(1-4)
LAW 220*	Landlord and Tenant Law	3
LAW 230*	Corporate Law	3
LAW 260*	Immigration Law	3
RE 125	Legal Aspects of Real Estate	3

TOTAL REQUIREMENTS MUST BE A MINIMUM OF 33

NOTE: DEPARTMENT RECOMMENDATION: It is strongly recommended that all graduates who wish to be assisted with job placement through the Paralegal Department complete LAW 173 or LAW 174 Work Experience with a letter of recommendation from their employer and complete CG 210, Job Search Strategies.

General education requirements must also be completed to achieve a minimum of 60 units for an AA Degree in Paralegal. General Education courses must meet the American Bar Association Requirements. No course may be taken as "Credit by Exam."

THIS PROGRAM IS APPROVED BY THE AMERICAN BAR ASSOCIATION

PARALEGAL SPECIALTY REQUIREMENTS

In order to obtain a paralegal specialty, the student must complete the Paralegal AA degree or certificate. Units for the specialty may come from the Paralegal AA degree or certificate requirements from additional courses as outlined below:

OPTIONAL SPECIALTY

COMMERCIAL

LAW 106	Bankruptcy Law	3
LAW 220	Landlord and Tenant Law	3
LAW 230	Corporate Law	3
or LAW 110	Business Law	3

PROBATE & ESTATE PLANNING

LAW 107	Probate Procedures	3
LAW 112	Estate Planning for the Paralegal	3
LAW 115	Elder Law	3

LITIGATION

LAW 102	Advanced California Civil Procedures	3
LAW 104	Advanced Legal Research	3
LAW 109	Torts and Personal Injury Law and Procedures	3

FAMILY LAW

LAW 102	Advanced California Civil Procedures	3
or LAW 113	Fundamentals of Alternate Dispute Resolutions	(3)
LAW 104	Advanced Legal Research	3
LAW 108	Family Law Procedures	3

LEGAL TECHNOLOGY

LAW 52	Law Office Management	3
LAW 57	Legal Document Production	3
LAW 65	Advanced Legal Technology	3

CRIMINAL LAW

LAW 116	Criminal Law	3
LAW 104	Advanced Legal Research	3
LAW 102	Advanced California Civil Procedures	3
or LAW 113	Fundamentals of Alternate Dispute Resolutions	3

BUSINESS LAW

LAW 110	Business Law	3
LAW 111	Business Law	3
LAW 113	Fundamentals of Alternate dispute Resolutions	3

PARALEGAL CERTIFICATE:

A student may earn a Paralegal Certificate if the student has already completed an AA degree or BA degree prior to taking any courses applied to the Paralegal Certificate. Students must complete a total of 27 units. These units must include LAW 56, LAW 100, LAW 101, LAW 103, LAW 111, LAW 120, and the students may choose either LAW 102, or LAW 113. Any additional units needed to complete the 27 unit requirement may be taken from Section B. All 27 units must be taken at Cerritos College.

Students must consult with the Law or Counseling Department prior to entering the certificate program. Any Law courses which were taken prior to the completion of the student's requisite AA degree will not be counted as part of the certificate units.

CAREER OPPORTUNITIES: Escrow Secretary (203.382-022), File Clerk (206.362-010), Insurance Clerk (219.387-014), Legal Assistant (119.267-022), Paralegal (119.267-026), Legal Secretary (201.362-010).

BUSINESS LEGAL MINOR

VERIFICATION OF COMPLETION (9 UNITS)

The Business Legal Minor may be obtained by completing three of the following core courses with a grade of Credit or "C" or higher: LAW 101, Introduction to Law; LAW 110, Business Law; LAW 111, Business Law; LAW 113, Fundamentals of Alternate Dispute Resolutions or LAW 161, Consumer Law.

Upon receiving your Certificate of Achievement or AA degree, a statement can be placed on your official transcript that you have completed the requirements for a Legal Minor.

A separate certification of completion of the requirements for a Legal Minor can also be issued. Check with the Law Department for more information.

CAREER OPPORTUNITIES: This minor combined with your major provides legal knowledge essential in business, in private industry, and in self-employment.

COURT REPORTING AND CAPTIONING CAREERS

STATE REQUIREMENTS

The Court Reporters Board of California issues a certificate upon successful completion of the following requirements and passing of the state examination.

	HOURS
English and Vocabulary	215
Medical	125
Legal	175
Transcript Procedures	55
Apprenticeship Training	60
Technology	25
Resource Materials	5
TOTAL MINIMUM PRESCRIBED ACADEMIC HOURS	660
TOTAL MACHINE SHORTHAND AND TRANSCRIPTION	2300

		UNITS	May be Taken	HOURS
CRCC 57A	Beginning Aural Language Skills for Court Reporters	3.5		90
CRCC 57B	Advanced Aural Language Skills for Court Reports	3.5		90
CRCC 113	Legal Terminology	3		72
CRCC 114	Medical Terminology for Machine Shorthand	3		90
CRCC 115	Medical Shorthand for Court Reporters	4		90
CRCC 119A	Beginning Computer-Aided Transcription	3	2 times	99
CRCC 119C	Advanced Computer-Aided Transcription	3	3 times	99
CRCC 140	Computerized Shorthand Theory	4.5		144
CRCC 141	Computerized Shorthand Theory--Review/Skill Development	4.5	2 times	144
CRCC 142	Intermediate Computerized Shorthand	4.5	2 times	180
CRCC 143	Computerized Shorthand Speed Building I	4.5	2 times	180
CRCC 144	Computerized Shorthand Speed Building II	4.5	2 times	180
CRCC 145	Computerized Shorthand Speed Building III	4.5	3 times	180
CRCC 146	Computerized Shorthand Speed Building (140-170 wpm)	4.5	3 times	180
CRCC 147	Computerized Shorthand Speed Building (160-190 wpm)	4.5	4 times	180
CRCC 148	Computerized Shorthand Speed Building (180-210 wpm)	5	4 times	216
CRCC 149	Computerized Shorthand Speed Building (190-225 wpm)	5	4 times	216
CRCC 157	Congressional Testimony Computerized Shorthand Speed Development (160-190 wpm)	4.5	3 times	180
CRCC 158	Professional Practices Hearings/Conferences	5	3 times	216
CRCC 159	Computerized Shorthand Speed Development (180-210 wpm) In Curian/In Camera Procedures	5	3 times	216
CRCC 173/174	Computerized Shorthand Occupational Work Experience	3/4	4 times	60
CRCC 185	CSR/RPR Examination Preparation	1.5	3 times	27
CRCC 192	Transcription Procedures	2	2 times	54
Choose from the following courses for a minimum of 35 hours:				
BCOT 162	Business Spelling and Proofreading Skills	3		54
BCOM 46	Business Communications	3		54
ENGL 53	Punctuation, Capitalization, and Spelling	3		54
ENGL 100	Freshman Composition	4		54
ENGL 107	Vocabulary Building	3		54
ENGL 108	Vocabulary Building for Professionals	2		36

Choose from the following courses for a minimum of 103 hours:

CRCC 116	Introduction to Courtroom Procedures	4	108
CRCC 118	Deposition Procedures, Codes and Ethics	4	108

Select from the above listed courses to meet the required hours of the California Court Reporters Board.

In order for a person to qualify from a school to take the state licensing examination, the person shall complete a program at a recognized school. For information concerning the minimum requirements that a court reporting program must meet in order to be recognized, contact: The Court Reporters Board of California; 2523 Capitol Oaks Drive, Suite 230, Sacramento, CA 95833; (916) 263-3660.

The Cerritos College Program is approved by the Court Reporters Board of California, 2523 Capitol Oaks Drive, Suite 230, Sacramento, CA 95833. Telephone: (916) 263-3660, Consumer Affairs.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Specific graduation requirements for court reporting students shall include the following minimum standards:

- The student shall pass three 5-minute tests with 95% accuracy at each of the following speeds: 225 words per minute testimony (two-voice), 200 words per minute jury charge, and 180 words per minute literary.
- The student shall pass at least two 5-minute time writings in keyboarding at a minimum of 60 gross words per minute with a maximum of 5 errors.
- The student shall complete at least 60 verified hours of apprentice internship.

Achieve the minimum of 225 wpm shorthand speed and 60 net wpm typing speed.

Complete general education requirements and electives to achieve a minimum of 60 units. Plus Business courses as follows:

	UNITS
CRCC 57B	Advanced Aural Language Skills for Court Reporters
CRCC 113	Legal Terminology
CRCC 115	Medical Shorthand for Court Reporters
CRCC 116	Introduction to Courtroom Procedures
CRCC 118	Deposition Procedures, Codes & Ethics
CRCC 119A	Beginning Computer-Aided Transcription
CRCC 119D	Basic Concepts of Realtime
CRCC 149	Computerized Shorthand Speed Building (190-225 wpm)
TOTAL	29.5

CAREER OPPORTUNITIES: Employment primarily as a court reporter in superior and municipal courts and the deposition field.

**BEGINNING REALTIME CAPTIONER/
BROADCAST CAPTIONING
VERIFICATION OF COMPLETION**
DIVISON/DEPARTMENT REQUIREMENTS:

	UNITS
CRCC 119D	Basic Concepts of Realtime
CRCC 130	Computerized Shorthand Realtime Practicum VI (190-225) WMP
CRCC 193B	Basic Broadcast Captioning
SL 101	* CRCC 173/174 Work Experience
	Beginning American Sign Language
TOTAL REQUIREMENTS	15.5/16.5
*Minimum stenotype speed of 200 WPM	

**CART REPORTER/REALTIME CAPTIONER
VERIFICATION OF COMPLETION**
DIVISION/DEPARTMENT REQUIREMENTS:

	UNITS
CRCC 119D	Basic Concepts of Realtime
CRCC 128	Computerized Shorthand Realtime Practicum IV
CRCC 193A	Basic Captioning
CRCC 173/174	Work Experience
SL 101	Beginning Sign Language
TOTAL REQUIREMENTS	15.5/16.5

**CERTIFIED REALTIME REPORTER
VERIFICATION OF COMPLETION**
DIVISION/DEPARTMENT REQUIREMENTS:

	UNITS
CRCC 57B	Advanced Aural Language Skills for Court Reporters
CRCC 119C	Advanced Computer-Aided Transcription
CRCC 119D	Basic Concepts of Realtime
* CRCC 130	Computerized Shorthand Realtime Practicum (190-225 wpm)
TOTAL REQUIREMENTS:	14

**PROOFREADER – COURT REPORTING METHOD
VERIFICATION OF COMPLETION**
DIVISION/DEPARTMENT REQUIREMENTS:

	UNITS
CRCC 57B	Advanced Aural Language Skills for Court Reporters
CRCC 113	Legal Terminology
CRCC 139	Career Opportunities
CRCC 192	Transcription Procedures
TOTAL REQUIREMENTS:	9.5

REALTIME RAPID TEXT ENTRY VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
CRCC 57B	Advanced Aural Language	3.5
CRCC 119D	Basic Concepts of Realtime	3
CRCC 125	Computer Shorthand	
	Realtime Practicum I	4.5
CRCC 139	Career Opportunities	1
CRCC 146	Computerized Shorthand	
	Speed Building (140-170 wpm)	4.5
TOTAL REQUIREMENTS		16.5

SCOPIST FOR COURT REPORTERS VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENT:		UNITS
CRCC 9B	Intermediate Procat Software	1
or CRCC 10B	Intermediate Case Catalyst	(1)
CRCC 57B	Advanced Aural language skills for Court Reporters	3.5
CRCC 113	Legal Terminology	3
CRCC 119C	Advanced Computer-Aided Transcription	(3)
or CRCC 119G	Computer-Aided Transcription for Scopists	3
CRCC 139	Career Opportunities	1
CRCC 192	Transcription Procedures	2

CHOOSE 3 UNITS FROM THE FOLLOWING:

CRCC 114	Medical Terminology for Machine Shorthand	3
MA 161	Medical Terminology	3
TOTAL REQUIRMENTS:		16.5

REAL ESTATE

CLASS COMPLETION CERTIFICATE	3 UNITS
REAL ESTATE DEPARTMENT AWARD	12/13 UNITS
REAL ESTATE CERTIFICATE OF ACHIEVEMENT	18/20 UNITS
CALIFORNIA REAL ESTATE CERTIFICATE	25/26 UNITS
AA DEGREE IN BUSINESS REAL ESTATE	60 UNITS

REAL ESTATE DEPARTMENT AWARD - 12/13 UNITS REQUIREMENTS

		UNITS
RE 101	Real Estate Principles	3
ACCT 100	Introduction to Accounting	3
or ACCT 101	Fundamentals of Accounting I	(4)
LAW 111	Business Law	3
BA 121	Sales	3
or BA 114	Marketing	(3)
or BA 110	Advertising	(3)

REAL ESTATE CERTIFICATE OF ACHIEVEMENT - 18/20 UNITS

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
RE 101	Real Estate Principles	3
RE 173/174	Work Experience/Career Internship	1/4

Choose 12-13 units from the following:

RE 50	Introduction to Real Estate Software	3
RE 52	Mortgage Loan Brokering and Lending	3
RE 120	Real Estate Finance	3
RE 125	Legal Aspects of Real Estate	3
RE 130	Real Estate Practice	3
RE 131	Real Estate Appraisal	4

CALIFORNIA REAL ESTATE CERTIFICATE - 25/26 UNITS STATE REQUIREMENTS

		UNITS
RE 101	Real Estate Principles	3
RE 120	Real Estate Finance	3
RE 125	Legal Aspects of Real Estate	3
RE 130	Real Estate Practice	3
RE 131	Real Estate Appraisal	4
RE 160	Real Estate Economics	3

Electives: Select a minimum of 6 units from the following courses:

LAW 111	Business Law	3
BUSA 100	Introduction to Accounting	3
BUSA 101	Fundamentals of Accounting I	4
RE 50	Introduction to Real Estate Software	3
RE 52	Mortgage Loan Brokering and Lending	3
RE 173/174	Work Experience/Career Internship	3/4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for the California Real Estate Certificate and complete six units from the following: BA 121, BCOM 147, FIN 125, RE 50, RE 51, RE 53, RE 140, RE 151 and complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see Business counselors or the respective department for additional alternatives.

REAL ESTATE LICENSE REQUIREMENTS

1. Salesperson's License:
Effective October 1, 2007, Assembly Bill (AB) 2429 will change the qualifying educational requirement for the salesperson examination and for obtaining a real estate salesperson license.
Currently, the Real Estate Law requires an applicant for a real estate salesperson examination to be enrolled in or have completed a college level course in Real Estate Principles. A successful applicant who has completed a college level course in Real Estate Principles, Real Estate Practices and one other specified real estate course will be eligible for a four-year license. A successful applicant, who has completed a college level course in Real Estate Principles, but not the other two additional courses in order to extend the license validation for a complete four year term. If the additional two courses are not completed within the 18 months, the license is automatically suspended.

Under the provision of AB 2429, original salesperson examination applicants will be required to submit evidence of completion of a three semester, or quarter unit equivalent, college-level course in Real Estate Principles, Real Estate Practice and one additional course which should be chosen from the following list of courses:

Legal Aspects of Real Estate—Real Estate Office Administration
Real Estate Appraisal — Computer Applications in Real Estate
Real Estate Finance— Real Estate Economics
Property Management—Business Law
Escrows—Accounting
Mortgage Loan Brokering and Lending—Common Interest Developments

The Department of Real Estate (DRE) will implement AB 2429 as follows:

1. Original salesperson examination applications post marked or submitted in person to any DRE office on or after October 1, 2007, will be required to include evidence of completion of all three required courses before being scheduled for an examination.
 2. Salesperson examination applications are valid for a two-year period. Original salesperson examination applications post marked or submitted in person to any DRE office before October 1, 2007, the contain an acknowledgement that the applicant is enrolled in or has completed a Real Estate Principles course, will be entitled to continue to take the examination within the two-year period for which the application is valid.
 3. Applicants, who qualify for the examination as set forth in Item 2 above, must take and pass the examination before October 1, 2007, and have the license application post marked, or submitted in person to any DRE office, before October 1, 2007, to be eligible for a conditional license.
 4. Applicants who qualify for the examination as set forth in Item 2 above, but who pass the examination on or after October 1, 2007, or whose license application is post marked, or submitted in person to an DRE office on or after October 1, 2007 will be required to include evidence of completion of all three required courses before their four-year license can be issued.
 5. Examination applications that contain proper verification that the applicant has completed all three required courses will be entitled to take the examination and apply for a four-year license upon the successful completion of the salesperson examination.
2. Broker's License:
Applicants for a Broker's License must have completed eight 3-unit college-level courses in addition to the experience requirement*. These courses must include the following five courses:
Real Estate Practice—Legal Aspects of Real Estate
Real Estate Appraisal—Real Estate Economics or Accounting
Real Estate Finance

The remaining three courses are to be selected from the following:

Real Estate Office Administration—Advanced Legal Aspects of Real Estate
Advanced Real Estate Appraisal—Practices of Escrow
Real Estate Principles—Business Law
Property Management—Fundamentals of Escrow
Mortgage Loan Brokering and Lending—Computer Applications in Real Estate

*If an applicant completes both Accounting and Real Estate Economics, only two additional courses are required.

*Experience requirement is fulfilled by any one of the following:

1. Two years as a real estate salesperson;
2. Bachelors degree from an accredited college or university; or
3. Two years' employment in related industries such as escrow offices, banks, savings and loans, or building industries.

Please see Business counselors or Real Estate Department chairman for additional licensing information.

REAL ESTATE SCHOLARSHIPS ARE AVAILABLE

Please see Business Counselors or Real Estate Department Chairman for further scholarship information.

CHEMISTRY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

		UNITS
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills*

CHEM 205	Quantitative Analysis Chemistry	4
MATH 220	Analytic Geometry and Calculus III	4
PHYS 203	Engineering Physics	4

California State University – Fullerton*

MATH 220	Analytic Geometry and Calculus III	4
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

California State University – Long Beach*

BIOL 201	Principles of Biology	5
CHEM 205	Quantitative Analysis Chemistry	4
MATH 220	Analytic Geometry and Calculus III	4
PHYS 203	Engineering Physics	4

California State University – Los Angeles*

CHEM 205	Quantitative Analysis Chemistry	4
MATH 220	Analytic Geometry and Calculus III	4
MATH 240	Calculus and Differential Equations	4

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State Polytechnic University – Pomona

CHEM 205	Quantitative Analysis Chemistry	4
CIS 180	Programming in c/C++	3
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

University of California – Irvine

CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
MATH 220	Analytic Geometry and Calculus III	4

University of California – Los Angeles

CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
MATH 220	Analytic Geometry and Calculus III	4
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

University of California – Riverside*

CHEM 205	Quantitative Analysis Chemistry	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
MATH 220	Analytic Geometry and Calculus III	5
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

*The above listed requirements are for a Bachelor of Science Degree.

See counselor for Bachelor of Arts Degree requirements.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the above required courses and (2) Associate in Arts Degree general education requirements.

CAREER OPPORTUNITIES: Chemistry graduates with their Bachelor's Degrees qualify for graduate studies in Chemistry or Biochemistry. Chemistry graduates find rewarding careers in teaching, medicine, pharmacy, forensic science and industrial and governmental scientific endeavors.

See Cerritos College Graduation Requirements.

See State University General Education or IGETC List.

CHICANO STUDIES TRANSFER PROGRAM

Chicano Studies is an interdisciplinary program of study which fosters an awareness of the contributions and participation of Mexican Americans in United States society. In its broader applications, the program explores the historical, political, social, and psychological aspects of the Mexican American experience as a minority group.

LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

UNITS

California State University – Long Beach

SPAN 245	Introduction to Chicano/ Mexican American Culture	3

California State University – Dominguez Hills

SPAN 245	Introduction to Chicano/ Mexican American Culture	3

See counselor regarding various concentration requirements.

University of California – Los Angeles

One course in introduction to Chicano Life and Culture, one course in Chicanos in American Society, and the equivalent of five quarter terms in Spanish.

University of California – Riverside

SPAN 245	Introduction to Mexican American Culture	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Completion of 60 units to include (1) the above required courses, (2) the AA Degree general education requirements, and (3) electives as needed.

CAREER OPPORTUNITIES: Completion of an upper division degree program can lead to employment as an elementary or secondary school teacher, school counselor, resource teacher, program coordinator, community, city, and state agencies. This program may also lead to employment in law, anthropology, and sociology.

See Cerritos College Graduation Requirements.

See State University General Education List.

CHILD DEVELOPMENT/EARLY CHILDHOOD

This program welcomes students from diverse cultural and ethnic backgrounds. Male students are encouraged to investigate career opportunities in Child Development.

The Child Development Department offers several different options for the student interested in working with young children. All full-time Child Development Instructors are available to advise students in all of the following areas:

- A. **Child Development Department Specializations** – The specializations are designed to meet the minimum requirements of the Department of Social Services to teach in licensed private preschools and childcare programs. This is an entry-level career choice. The student is encouraged to pursue additional units in Child Development to advance in the field. Applications for the following Verifications of Completion must be made at the Health Occupations Division office anytime after the completion of courses.
 - Associate Teacher Certificate of Completion
 - Preschool Director Certificate of Completion
 - Family Child Care Certificate of Completion

- B. **The Child Development Permit** – The permit is granted by the California Commission on Teacher Credentialing and entitles the holder to teach in state and federally funded programs. This is an expanded career choice and has levels of advancement. The Department recommends that all Child Development students aspire to the Child Development permit. Application for the permit is made through the California Commission on Teacher Credentialing.

- Assistant Teacher
- Associate Teacher
- Teacher
- Master Teacher
- Site Supervisor

- C. **Certificates of Achievement** – This is a carefully planned course of classes that will meet requirements of The Department of Social Services and The Child Development permit as well as when combined with the required general studies classes will lead to an AA Degree in Child Development. This offers even greater career options. Application for the Certificate of Achievement must be made through the Cerritos College Office of Admissions and Records by March 1 of the year you intend to graduate.

- Certificate of Achievement: Child Development/Early Childhood
- Certificate of Achievement: Child Development/Preschool Director
- Certificate of Achievement: Infant/Toddler Teacher
- Certificate of Achievement: Child Development/School-Age Child Care
- Certificate of Achievement: Child Development/Special Education
- Certificate of Achievement: child Development/Educational Paraprofessional

- D. **AA Degree – Child Development** – This option requires one of the Certificates of Achievement and the required general education courses at Cerritos College. (See college catalogue and counselor). This offers the best career options and prepares the student for transfer to a university. (Please note that classes with a number under 100 do not transfer.) Application for the AA degree must be made through the Cerritos College Office of Admissions and Records by March 1 of the year you intend to graduate.

DEPARTMENT SPECIALIZATIONS

A1. ASSOCIATE TEACHER SPECIALIZATIONS AND CERTIFICATE OF COMPLETION: (12 UNITS)

The following courses meet the minimum educational requirements under Title 22 (Department of Social Services) to qualify the student to teach in a state licensed preschool or childcare program. The student must have taken the courses within the last five years and must have attained a grade of “C” or higher in each course. In addition, to qualify for this verification, the student must complete three out of four courses at Cerritos College.*

COURSES

		UNITS
CD 110	Child Development – DS1	3
CDEC 111	Principles and Practices in Early Childhood Education - DS3	3
CDEC 112	Early Childhood Education Curriculum – DS	3
CDEC 113	The Child, Family and Community – DS2	3

A2. PRESCHOOL DIRECTOR SPECIALIZATION AND CERTIFICATE OF COMPLETION: (15 UNITS)

The following courses meet the minimum educational requirements under Title 22 (Department of Social Services) to qualify the student to be a director of a state licensed preschool or childcare program. The student must have attained a grade of “C” or higher in each course. In addition, to qualify for this verification, the student must complete three out of four courses at Cerritos College.* For employment, the Department of Social Services (DSS) will also require four years of teaching experience in a preschool or child care program if applicant has only the above minimum education requirements.

These courses alone do not qualify at any level of the Child Development Permit from the California commission of Teacher Credentials.

CORE COURSES

		UNITS
CD 110	Child Development – DS1	3
CDEC 111	Principles and Practices in Early Childhood Education – DS3	3
CDEC 112	Early Childhood Education Curriculum – DS3	3
CDEC 113	The Child, Family and Community – DS2	3

ADDITIONAL COURSE

CDEC 66	Administration and Supervision of Early Childhood Education Programs – DS6	3

A3. FAMILY CHILD CARE SPECIALIZATION AND CERTIFICATE OF COMPLETION: (9 UNITS)

To qualify for this verification, the student must complete the three courses at Cerritos College. The student must have taken the courses within the last five years and must have attained a grade of “C” or higher in each course.*

COURSES

		UNITS
CD 110	Child Development	3
CDFC 10	Family Child Care Providers (offered Spring semester only)	3
CDEC 161	Nutrition, Health, & Safety in Children's Programs	3

*TO QUALIFY FOR CREDIT FOR CERTIFICATE OF COMPLETION OR THE CERTIFICATE OF ACHIEVEMENT, COURSES NOT COMPLETED AT CERRITOS COLLEGE MUST BE COMPARABLE IN CONTENT, UNITS, AND GRANTED BY A COLLEGE OR UNIVERSITY ACCREDITED BY THE WESTERN ASSOCIATION OF SCHOOLS AND COLLEGES.

THE CHILD DEVELOPMENT PERMIT

The Child Development Department urges all students to apply for the permit as soon as they have completed six of the core units. After completing additional required units, students should apply for the next level.

For additional information on the Child Development permit ask for the booklet issued by the California Commission on Teacher Credentialing available in the Health Occupations Division office.

B1. ASSISTANT – THE CHILD DEVELOPMENT PERMIT

This level authorizes the instruction of children under the supervision of a teacher.

COURSES (choose two from the following classes)	UNITS
CD 110 Child Development	3
CDEC 111 Principles and Practices in Early Childhood Education	3
CDEC 112 Early Childhood Education Curriculum	3
CDEC 113 The Child, Family, and Community	3

B2. ASSOCIATE TEACHER – THE CHILD DEVELOPMENT PERMIT

This authorizes instruction and supervision of an assistant

COURSES (MUST COMPLETE ALL OF THE CORE COURSES)	UNITS
CD 110 Child Development	3
CDEC 111 Principles and Practices in Early Childhood Education	3
CDEC 112 Early Childhood Education Curriculum	3
CDEC 113 The Child, Family, and Community	3

B3. TEACHER - THE CHILD DEVELOPMENT PERMIT

The following courses meet the requirements for the California Commission on Teacher Credentialing that are required to teach in state and federally funded programs for young children or any privately funded programs that also require the Child Development permit.

COURSES	UNITS
CD 110 Child Development	3
CDEC 111 Principles and Practices in Early Childhood Education	3
CDEC 112 Early Childhood Education Curriculum	3
CDEC 113 The Child, Family, and Community	3
CDEC 164 Early Childhood Education Practicum	3

The student must also choose and complete an additional 12 units from the Certificate of Achievement in Child Development requirements to meet the required total of 24 units in Child Development.

The student must also complete 16 units in general education in the areas stated: English/Language Arts, Math or Science, Social Sciences, Humanities and/or Fine Arts. Also note that for the Permit there is a required experience period.

B4. MASTER TEACHER – THE CHILD DEVELOPMENT PERMIT

Requires all that is stated above in Teacher description plus the following:

CDEC 230 – Adult Supervision in Child Care Program
6 units of specialization – please see a full-time faculty member in Child Development for advisement

Also note a more **extensive experience period is required.**

B5. SITE SUPERVISOR – THE CHILD DEVELOPMENT PERMIT

Requires an AA degree or 60 units, which must include the following courses. If the AA does not include the following courses then these course must be taken in addition:

COURSES	UNITS
CD 110 Child Development – DS1	3
CDEC 111 Principles and Practices in Early Childhood Education - DS3	3
CDEC 112 Early Childhood Education Curriculum – DS3	3
CDEC 113 The Child, Family and Community – DS2	3

Twelve additional Child Development units (choose from Certificate of Achievement – Early Childhood list)

COURSES	UNITS
CDEC 66 Administration of Early Childhood Programs	3
CDEC 67 Advanced Administration of Early Childhood Programs (offered in Spring semester only)	3
CDEC 230 Adult Supervision in Child Care Programs	3

Please note the required Experience Period.

CHILD DEVELOPMENT CERTIFICATES OF ACHIEVEMENT

C1. CERTIFICATE OF ACHIEVEMENT: CHILD DEVELOPMENT/EARLY CHILDHOOD

In order to receive the Certificate of Achievement, all courses must be completed with a grade of “C” or higher.

NOTE: APPLICATION FOR CERTIFICATE OF ACHIEVEMENT MUST BE MADE AT THE OFFICE OF ADMISSIONS AND RECORDS.

COURSES	UNITS
CD 110 Child Development – DS1	3
CD 124 The Child in a Diverse Society – DS3C	3
CD 139 Observation, Assessment, and Positive Guidance of Childhood Behavior	3
CDEC 111 Principles and Practices in Early Childhood Education – DS3	3
CDEC 112 Early Childhood Education Curriculum – DS3	3
CDEC 113 The Child, Family, and Community – DS2	3
CDEC 62 Exploring Creative Art Expression By Children – DS3	3
CDEC 164 Early Childhood Education Practicum – DS3	3

Choose two of the following for a total of 6 units:

CDEC 3 Early Childhood Experiences in Language Arts and Social Science	3
CDEC 65 Music and Movement for Children	3
CDEC 133 Early Childhood Experiences in Math and Sciences	3
CDEC 161 Nutrition, Health & Safety in Children's Programs	3
CDEC 173 Early Childhood Education Occupational Work Experience	3
CDEC 174 Early Childhood Education Occupational Work Experience	(4)

Curricula, Requirements for Majors, Certificates and Transfer Programs

CDIT 151	Infant and Toddler Development	3
CDIT 152	Infant and Toddler Programs	3
CDSA 152	School – Age Child Care Activities	3
CDSA 155	School-Age Child Care Activities – DS5 (offered Fall semester only)	3
CDSE 50	Survey of Special Education	3
CDSE 52	Special Education Inclusion in Early Childhood Programs	3
CDEC 230	Adult Supervision in Child Care Programs	3
TOTAL CERTIFICATE REQUIREMENTS		30/31

*Students must be concurrently enrolled in a minimum of seven units in CDEC, including work experience. CDEC 173 requires that you work or volunteer a minimum of 15 hours per week and CDEC 174 requires that you work or volunteer a minimum of 20 hours per week in a program for young children. Work Experience classes may be taken more than one semester.

C2. CERTIFICATE OF ACHIEVEMENT: CHILD DEVELOPMENT/PRESCHOOL DIRECTOR

NOTE: APPLICATION FOR CERTIFICATE OF ACHIEVEMENT MUST BE MADE AT THE OFFICE OF ADMISSIONS AND RECORDS

Students must complete the Certificate of Achievement requirements listed in Child Development/Early Childhood and the following courses:

COURSES	UNITS
Certificate of Achievement in Child Development/ Early Childhood	30/31
CDEC 66 Administration and Supervision of Early Childhood Education Programs – DS6	3
CDEC 67 Adv. Administration and Supervision of Early Childhood Education Programs – DS6 (offered in Spring semester only)	3
CDEC 230 Adult Supervision on Child Care Programs	3
TOTAL CERTIFICATE REQUIREMENTS	39/40

C3. CERTIFICATE OF ACHIEVEMENT: SCHOOL-AGE CHILD CARE

The following courses meet the minimum educational requirements for the Department of Social Services for school-age child caregivers. The student must have attained a grade of “C” or higher in each course.

COURSES	UNITS
CD 110 Child Development – DS 1	3
CD 115 Parent School Partnership	3
CDEC 62 Exploring Creative Art Expression by Children – DS 3	3
CDEC 161 Nutrition, Health & Safety in Children's Programs – DS 7	3
CDEC 63 Early Childhood Experiences in Language Arts and Social Sciences – DS 3	3
CDEC 113 The Child, Family, and community – DS 2	3
CDSA 152 School-Age Child Care Supervision and Administration – DS 6 (offered in Spring semester only)	3
CDSA 155 School-Age Child Care Activities – DS 5 (offered in Fall semester only)	3
CDSA 259 School-Age child Care Practicum – DS 5	3
TOTAL CERTIFICATE REQUIREMENTS	27

C4. CERTIFICATE OF ACHIEVEMENT: INFANT/TODDLER TEACHER

The following courses meet the minimum educational requirements for the Department of Social Services for infant/toddler caregivers. The student must have attained a grade of “C” or higher in each course.

COURSES	UNITS
CD 110 Child Development – DS1	3
CD 124 The Child in a Diverse Society	3
CDEC 161 Nutrition, Health and Safety in Children's Programs	3
CDEC 111 Principles and Practices in Early Childhood Education – DS 3	3
CDEC 112 Early Childhood Education Curriculum – DS 3	3
CDEC 113 The Child, Family and Community – DS 2	3
CDIT 151 Infant and Toddler Development	3
CDIT 152 Infant and Toddler Programs	3
TOTAL CERTIFICATE REQUIREMENTS	24

C5. CERTIFICATE OF ACHIEVEMENT: CHILD DEVELOPMENT/SPECIAL EDUCATION

NOTE: APPLICATION FOR CERTIFICATE OF ACHIEVEMENT MUST BE MADE AT THE OFFICE OF ADMISSIONS AND RECORDS

COURSES	UNITS
CD 110 Child Development	3
CD 124 The Child in a Diverse Society	3
CD 139 Observation, Assessment and Positive Guidance of Childhood Behavior	3
CDEC 62 Exploring Creative Art Expression by Children – DS 3	3
CDSE 50 Survey of Special Education	3
CDSE 52 Special Education Inclusion in Early Childhood Programs	3
CDEC 133 Early Childhood Experiences in Math and Sciences	2
SL 101 Beginning American Sign Language	3
PSYC 101 General Introductory Psychology	3
*CDSE 73/74 Special Education Assistant Occupational Work Experience	3 - 4
TOTAL CERTIFICATE REQUIREMENTS	29/30

*Students must be concurrently enrolled in a minimum of seven units in CDEC, including work experience. CDSE 73 requires that you work or volunteer a minimum of 15 hours per week and CDSE 74 requires that you work or volunteer a minimum of 20 hours per week in a program for young children. Work Experience classes may be taken more than one semester.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Meet the requirements for a Certificate of Achievement in Special Education Assistant. Plus, for an AA Degree, a student must take SL 102, electives and general education requirements to achieve a minimum of 60 units.

**C6. CERTIFICATE OF ACHIEVEMENT
EDUCATIONAL PARAPROFESSIONAL**

COURSES		UNITS
CDIA 90	Introduction to Elementary and Secondary Classroom Experience	3
*CDIA 99	Instructional Aide Practicum	3
CD 110	Children Development	3
CD 115	Parent School Partnerships	3
CD 124	The Child in a Diverse Society	3
CD 139	Observation, Assessment and Positive Guidance of Childhood Behavior	3
CDEC 62	Exploring Creative Art Expression by Children – DS 3	3
CDSE 50	Survey of Special Education	3
CDSE 52	Special Education Inclusion in Early Childhood Programs	3
EDT 52	Windows for Educators	1
EDT 110	Introduction to Educational Technology	2
TOTAL CERTIFICATE REQUIREMENTS:		<u>30</u>

CDIA 99 requires of the student 6 hours per week in a school environment, normally during daytime hours.

*If currently employed as an Educational Paraprofessional, enroll in CDIA 73, CDIA 74, CDSE 73 or CDSE 74.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement for Educational Paraprofessional. Plus, for an AA Degree, a student must complete electives and general education requirements to achieve a minimum of 60 units.

See Cerritos College Graduation Requirements.

CAREER OPPORTUNITIES: Employment as an Educational Paraprofessional in a classroom situation.

ASSOCIATE IN ARTS DEGREE: CHILD DEVELOPMENT**D1. ASSOCIATE IN ARTS DEGREE:**

Meet the requirements for a Certificate of Achievement. Plus, for an AA Degree a student must complete PSYCH 101 and general education requirements to achieve a minimum of 60 units.

RECOMMENDED ELECTIVES: CDIT 151, CDIT 152, CDSE 52

See Cerritos College Graduation Requirements. Students need advisement from a Cerritos College counselor for general education requirements.

**COMPUTER AND INFORMATION SCIENCES
PROGRAMS****COMPUTER AND INFORMATION SCIENCES
NETWORKING TECHNICIANS/OPERATORS
CERTIFICATE OF ACHIEVEMENT**

REQUIRED COURSES		UNITS
CIS 70A	Networking Fundamentals	3.5
CIS 70B	Local Area Networks	3.5
CIS 70D	Introduction to TCP/IP	1.5
CIS 70E	Router Configuration and Protocols	3.5
CIS 70F	Advanced Switching and Routing	3.5
CIS 70G	Wide Area Networks	3.5
		<u>19</u>

Choose 10.5 units from the following courses:

CIS 58A	Windows for the COMPTIA A+ Certification Exam	3.5
CIS 75	SQL Administration	3
CIS 141	AS/400 Operations	3
CIS 105	Using Microsoft Windows	1.5
CIS 201	Systems Analysis and Design	3
CIS 205	Programming HTML for the Web	1.5
CIS 212A	Microsoft Windows 2000 Professional	3.5
CIS 212B	Microsoft Windows 2000 Server	3.5
CIS 213	Microsoft Windows Directory Services	3.5
CIS 214	Unix	3
CIS 215B	Solaris Administration I	3.5
CIS 215C	Solaris Administration II	3.5

TOTAL CERTIFICATE REQUIREMENTS 29.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements of a Certificate of Achievement in Computer and Information Sciences Network Technicians/Operators certificate and complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this certificate/AA Degree is nontransferable.

See Cerritos College graduation requirements.

**COMPUTER AND INFORMATION
SCIENCE OPERATOR
CERTIFICATE OF ACHIEVEMENT**

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
CIS 52*	Data Processing Mathematics 3
CIS 101	Introduction to Computer Information Systems 3
or CIS 102	Introduction to Microcomputer Hardware and Applications Software (3)
CIS 103	Computer Programming Logic 3.5
CIS 141	AS/400 Operations 3
CIS 141A	Operate iSeries (AS/400) using Operations Navigator 1.5

Curricula, Requirements for Majors, Certificates and Transfer Programs

CIS 240	AS/400 Control Language Programming	3
BCOM 147**	Business Communications	3
or ENGL 52**	Introduction to College Composition	(3)
or ENGL 100**	Freshman Composition	(4)
or ENGL 155**	Technical Writing	(3)

Choose fifteen units from the following courses:

BCOT 52	Data Entry	2
CIS 58A	PC Operating System A+ Certification	3.5
CIS 70A	Networking Fundamentals	3
CIS 75	SQL/Administration	3
CIS 105	Using Microsoft Windows	1.5
CIS 121	Introduction to Internet	1.5
CIS 140	Query/400	1
CIS 175	RPG Programming	3
CIS 180	Programming in C/C++	3
CIS 201	Systems Analysis and Design	3
CIS 207	SQL Programming	3
CIS 208	Oracle Database Programming	3
CIS 212	Windows 2000 Professional and Server	3
CIS 214	Unix	3
CIS 271/272 273/274	CIS Occupational Work Experience	1/2/3/4

TOTAL CERTIFICATE REQUIREMENTS: 36

**Meets general education requirement, may substitute
MATH 60*

***Meets AA Degree general education requirements.*

NOTE: CIS 52, 101, 102, or 103 meet AA degree general education communication and analytic thinking requirement.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Computer and Information Sciences Operator and complete general education requirements and electives to achieve a minimum of 60 units.

See Cerritos College Graduation Requirements.

Please see a counselor or the respective department for additional alternatives.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

COMPUTER AND INFORMATION SCIENCES PROGRAMMER CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

	UNITS
CIS 52*	Data Processing Mathematics 3
CIS 101	Introduction to Computer Information Systems 3
or CIS 102	Introduction to Microcomputer Hardware and Applications Software (3.5)
CIS 103	Computer Programming Logic 3.5
CIS 186	Visual Basic.NET Programming 3.5
or CIS 180	Programming in C/C++ (3.5)
or CIS 182	Java Programming (3.5)
CIS 207	Database Design and SQL 3.5

or CIS 208A	Oracle SQL and PL/SQL Programming (3.5)
or CIS 208B	Oracle Database Applications (3.5)
CIS 221	Advanced Visual Basic 3
or CIS 221A	Object-Oriented Programming in VB.NET (3)
or CIS 280	Object-Oriented Programming in C++ (3)
or CIS 282	Advanced Java Programming (3.5)
CIS 292	Data Structures 3.5
BCOM 147**	Business Communications 3

Choose 12 units from the following courses:

CIS 80	Programming in Access	3
CIS 82	Visual Basic Scripting	1.5
CIS 121	Introduction to Internet for Information Systems/Information Technology	1.5
CIS 125	JavaScript Programming	1.5
CIS 140	Query/400	1
CIS 141	AS/400 Operations	3
CIS 160	Web Page Development	3.5
CIS 175	RPG Programming	3
CIS 176	COBOL Programming	(3)
CIS 186	Visual Basic.NET Programming	3.5
CIS 180	Programming in C/C++	3
CIS 182	Java Programming	3.5
CIS 201	Systems Analysis and Design	3
CIS 205	Programming in HTML for the World Wide Web	1.5
CIS 206	XML Scripting	3.5
CIS 207	Database Design and SQL	3.5
CIS 208A	Oracle SQL and PL/SQL Programming	.5
CIS 208B	Oracle Database Applications	3.5
CIS 212	Windows 2000 Professional and Server	3
CIS 214	Unix	3
CIS 215A	Solaris Fundamentals	3.5
CIS 221	Advanced Visual Basic	3
CIS 221A	Object-Oriented Programming in VB.NET	3
CIS 221B	Database Programming in VB.NET	3
CIS 222	Advanced RPG Programming	3.5
CIS 223	VisualAge RPG	3
CIS 224	Advanced COBOL Programming	3
CIS 271/272/ 273/274	CIS Occupational Work Experience	1/2/3/4
CIS 280	Object-Oriented Programming in C++	3
CIS 281	Windows Programming with Visual C#.NET	3
CIS 282	Advanced Java Programming	3.5
CIS 283A	Java Server Pages (JSP) Programming	3.5
CIS 284	CGI and DANCRL Programming	3.5
CIS 285	Active Server Pages Programming	3.5
CIS 285A	Active Server Pages.NET Programming	3.5

TOTAL CERTIFICATE REQUIREMENTS: 38/39

**Meets AA Degree General Education – “Communication and Analytical Thinking” requirement. MATH 60 may be substituted.*

***Meets AA Degree General Education – “English Composition” requirement.*

NOTE: CIS 52, 101, 102, and 103 meet AA Degree General Education - “Communication and Analytical Thinking” requirement and the “AA Math Proficiency” requirement.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Computer and Information Sciences Programmer and complete general education requirements and electives to achieve a minimum of 60 units.

See Cerritos College Graduation Requirements.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see counselors or the respective department for additional alternatives.

COMPUTER AND INFORMATION SCIENCES SYSTEMS ANALYST CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
CIS 52*	Data Processing Mathematics	3
CIS 70A	Network Fundamentals	3.5
CIS 101	Introduction to Computer Information Systems	3
or CIS 102	Introduction to Microcomputer Hardware and Applications Software	(3)
CIS 103	Computer Programming Logic	3.5
CIS 151	Microsoft Excel for IS/IT	3.5
CIS 186	Visual Basic.NET Programming	3.5
CIS 201	Systems Analysis and Design	3
CIS 202A	Project Management for IT	3.5
CIS 207	Database Design and SQL Programming	3
or CIS 208A	Oracle SQL and PL/SQL	(3)
or CIS 80	Programming in Access	(3)
BCOM 147**	Business Communications	3

Choose from the following for a total of 10 units:

CIS 58A	PC Operating System A+ Certification	3.5
CIS 121	Introduction to Internet	1.5
CIS 126	JavaScript for Non-Programmers	3
CIS 141	AS/400 Operations	3
CIS 152	Programming in Excel VBA	3.5
CIS 155	Microsoft Access	3
CIS 180	Programming in C/C++	3
CIS 202B	Microsoft Project	3.5
CIS 205	Programming in HTML for the World Wide Web	1.5
CIS 206	XML Scripting	3.5
CIS 212	Windows 2000 Professional and Server	3
CIS 271/272/273/274	CIS Occupational Work Experience	1/2/3/4
CIS 280	Object-Oriented Programming in C++	3
CIS 281	Windows Programming w/Visual C#.NET	3
CIS 285A	ASP.NET Programming	3

TOTAL CERTIFICATE REQUIREMENTS: 42.5

*Meets general education requirement, may substitute MATH 60

**Meets general education requirement, may substitute ENGL 100

NOTE: CIS 52, 101, 102, or 103 meet AA Degree general education communication and analytic thinking.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for Certificate of Achievement in Computer and Information Sciences-Systems Analyst. Complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see S.E.M./CIS counselors or the respective department for additional alternatives.

COMPUTER AND INFORMATION SCIENCES MICROCOMPUTER SPECIALIST CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
CIS 52*	Data Processing Mathematics	3
BCOT 96	Microsoft PowerPoint Core/Expert	1.5
BCOT 117	Introduction to Desktop Publishing	1.5
CIS 58A	PC Operating System A+ Certification	3.5
CIS 102	Introduction to Microcomputer Hardware and Applications Software	3
CIS 103	Computer Programming Logic	3.5
CIS 105	Using Microsoft Windows	1.5
CIS 151	Microsoft Excel for Information Systems/Information Technology	3.5
CIS 155	Microsoft Access	3
CIS 186	Visual Basic.NET Programming	3.5
BCOM 147**	Business Communications	3
or ENGL 52**	Introduction to College Composition	(3)
or ENGL 100**	Freshman Composition	(3)
or ENGL 155**	Technical Writing	(3)

Choose 6 units from the following courses:

CIS 70A	Network Fundamentals	3.5
CIS 121	Introduction to Internet	1.5
CIS 180	Programming in C/C++	3
CIS 182	Java Programming	3.5
CIS 201	Systems Analysis and Design	3
CIS 205	Programming in HTML for the World Wide Web	1.5
CIS 206	XML Programming	3.5
CIS 212	Windows 2000 Professional Server	3
CIS 214	Unix	3
CIS 271/272/273/274	CIS Occupational Work Experience	1/2/3/4
CIS 280	Object-Oriented Programming in C++	3

TOTAL CERTIFICATE REQUIREMENTS: 36.5

*Meets AA Degree general education requirement, may substitute MATH 60

**Meets AA Degree general education requirement.

NOTE: CIS 52, 102, or 103 meets AA Degree general education communication and analytic thinking requirement.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for Certificate of Achievement in Computer and Information Sciences Microcomputer Specialist and complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see counselors or the respective department for additional alternatives.

COMPUTER AND INFORMATION SCIENCES IBM AS/400 SPECIALIST CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
CIS 52*	Data Processing Mathematics	3
CIS 103	Computer Programming Logic	3.5
CIS 140	QUERY/400	1
CIS 141	AS/400 Operations	3
or CIS 142A	AS/400 Operations Part 1	(1.5)
and CIS 142B	AS/400 Operations and Facilities Part 2	(1.5)
CIS 175	RPG Programming	3
CIS 207	Database Design and SQL	3
CIS 222	Advanced RPG Programming	3.5
or CIS 223	Visual RPG	(3)
CIS 240	AS/400 Control Language Programming	3
BCOM 147**	Business Communications	3
or ENGL 52**	Introduction to College Composition	(3)
or ENGL 100**	Freshman Composition	(4)
or ENGL 155**	Technical Writing	(3)

Choose 5.0 units from the following courses:

CIS 70A	Network Fundamentals	3.5
CIS 121	Introduction to the Internet	1.5
CIS 141A	Operate iSeries (AS/400) using Operations Navigator	1.5
CIS 180	Programming in C/C++	3
CIS 182	Java Programming	3.5
CIS 186	Visual Basic.NET Programming	3.5
CIS 205	Programming in HTML for the World Wide Web	1.5
CIS 271/272	CIS Occupational Work Experience-	1/2/3/4
CIS 273/274		

TOTAL CERTIFICATE REQUIREMENTS: 31.5/32

*Meets general education requirement, may substitute MATH 60

**Meets AA Degree general education requirement, may substitute ENGL 100

NOTE: CIS 52 or CIS 103 meet AA Degree general education communication and analytic thinking requirement.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Computer and Information Sciences IBM AS/400 Specialist and complete general education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/AA Degree is nontransferable.

Please see SEM/CIS counselors or the respective department for additional alternatives.

SOFTWARE DEVELOPMENT IN JAVA VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 182	Java Programming	3.5
CIS 282	Advanced Java Programming	3.5
CIS 283A	Java Server Pages (JSP) Programming	3.5
TOTAL VERIFICATION REQUIREMENTS		14

A verification of completion in the Software Development in Java Verification of Completion will be granted by the division upon completion of 14 units.

SOFTWARE DEVELOPMENT IN C++/VISUAL C# VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 180	Programming in C/C++	3.5
CIS 280	Object-Oriented Programming in C++	3
CIS 281	Windows Programming with Visual C#.NET	3
CIS292	Data Structures	3.5
TOTAL VERIFICATION REQUIREMENTS		16.5

A verification of completion in the Software Development in C++/Visual C# Verification of Completion will be granted by the division upon completion of 16.5 units.

IBM ISERIES 400 SERVER OPERATORS VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 141	iSeries 400 Operations	3
CIS 141A	Operations Navigator	1.5
CIS 240	Control Language Programming	3
TOTAL VERIFICATION REQUIREMENTS		11

A verification of completion in the IBM iSeries 400 Operations Verification of Completion will be granted by the division upon completion of 11 units.

SOFTWARE DEVELOPMENT IN DATABASE APPLICATION VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 186	Visual Basic.NET Programming	3.5
CIS 207	Database Design and SQL	3.5
CIS 221B	Database Programming in VB.NET	3
TOTAL VERIFICATION REQUIREMENTS		13.5

A verification of completion in the Software Development Database Application Verification of Completion will be granted by the division upon completion of 13.5 units.

LINUX APPLICATION PRODUCTIVITY VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 85	Unix Productivity Tools	3.5
CIS 101	Introduction to CIS	3
CIS 214	Unix/Linux Fundamentals	3.5
TOTAL VERIFICATION REQUIREMENTS		10

A verification of completion in the Linux Application Productivity Verification will be granted by the division upon completion of 10.5 units.

MICROSOFT SYSTEMS ADMINISTRATOR VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 212	Introduction to Microsoft Windows Administration	3.5
CIS 213A	Windows Activity Directory Administration	3.5
or CIS 213J	Implementing a Windows 2003 Active Directory	3.5
CIS 213B	Windows Network Infrastructure	3.5
or CIS 213I	Implementing a Windows 2003 Network Infrastructure	(3.5)
CIS 213F	Windows 2003 Server Administration	3.5
CIS 213K	Designing A Windows Active Directory and Network Infrastructure	3.5
TOTAL VERIFICATION REQUIREMENTS		17.5

A verification of completion in the Microsoft Systems Administrator Verification of Completion will be granted by the division upon completion of 17.5 units.

NETWORK ADMINISTRATOR VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 70A	Network Fundamentals	3.5
CIS 70B	LAN	3.5
CIS 70D	TCP/IP	1.5
CIS 70E	Switching/Routing	3.5
CIS 70F	Advanced Switching/Routing	3.5
TOTAL VERIFICATION REQUIREMENTS		15.5

A verification of completion in the Network Administration Verification of Completion will be granted by the division upon completion of 15.5 units.

UNIX ADMINISTRATION VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 214	Unix/Linux Fundamentals	3.5
CIS 215B	Solaris Administration I	3.5
CIS 215C	Solaris Administration II	3.5
TOTAL VERIFICATION REQUIREMENTS		10.5

A verification of completion in the Unix Administration Verification of Completion will be granted by the division upon completion of 10.5 units.

COMPUTER INFORMATION SYSTEMS ANALYST VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS:		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 186	Visual Basic.NET Programming	3.5
CIS 201	Systems Analysis and Design	3
CIS 202A	Project Management for IT	3.5
CIS 202B	Microsoft Project	3.5
TOTAL VERIFICATION REQUIREMENTS		17

A verification of completion in the Computer Information Systems Analyst Verification will be granted by the division upon completion of 17 units.

DATABASE APPLICATION DEVELOPMENT FOR MICROSOFT ACCESS VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 80	Programming in Access	3.5
CIS 103	Computer Programming Logic	3.5
CIS 155	Microsoft Access	3.5
CIS 186	Visual Basic.NET Programming	3.5
TOTAL VERIFICATION REQUIREMENTS		14

NOTE: CIS 103 can be replaced by CIS 180 or CIS 182 with the approval of the certificate advisor.

A verification of completion in the Database Application Development for Microsoft Access Verification of Completion will be granted by the division upon completion of 14 units.

CYBER SECURITY VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 70A	Network Fundamentals	3.5
CIS 70K	Wireless Network	3
CIS 70L	Network Security Fundamentals	3.5
CIS 72B	Special Topics in Security	3.5
CIS 213H	Microsoft Windows Security	3.5
TOTAL VERIFICATION REQUIREMENTS		17

A verification of completion in the Cyber Security Certificate will be granted by the division upon completion of 17 units.

A+ CERTIFICATION PREPARATION VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 58A	PC Operating System A+ Certification	3.5
CIS 58B	PC Core Hardware A+ Certification	3.5
TOTAL VERIFICATION REQUIREMENTS		7

A verification of completion in the A+ Certification Preparation Verification will be granted by the division upon completion of 7 units.

WEB SERVER DEVELOPMENT VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 186	Visual Basic.NET Programming	3.5
CIS 205	Programming in HTML	1.5
CIS 285A	ASP.NET Programming	3.5
TOTAL VERIFICATION REQUIREMENTS		12

A verification of completion in the Web Server Development Verification of Completion will be granted by the division upon completion of 12 units.

WEB CLIENT DEVELOPMENT VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 125	JavaScript for Programmer	1.5
CIS 160	Web Page Development	3.5
CIS 205	Programming in HTML	1.5
TOTAL VERIFICATION REQUIREMENTS		10

A verification of completion in the Web Client Development Verification of Completion will be granted by the division upon completion of 10 units.

SOFTWARE DEVELOPMENT IN VISUAL BASIC.NET VERIFICATION OF COMPLETION

REQUIRED COURSES		UNITS
CIS 103	Computer Programming Logic	3.5
CIS 186	Visual Basic.NET Programming	3.5
CIS 221A	Object-Oriented Programming in VB.NET	3
CIS 221B	Database Programming in VB.NET	3
TOTAL VERIFICATION REQUIREMENTS		13

A verification of completion in the Software Development in visual Basic.NET Verification of Completion will be granted by the division upon completion of 13 units.

SOFTWARE DEVELOPMENT IN THE UNIX/ LINUX ENVIRONMENT VERIFICATION OF COMPLETION

REQUIRED COURSE	UNITS
CIS 103 Computer Programming Logic	3.5
CIS 180 Programming in C/C++	3.5
CIS 181A Unix Programming in C/C++	3.5
CIS 214 Unix/Linux Fundamentals	3.5
TOTAL VERIFICATION REQUIREMENTS	14

A verification of completion in the Software Development in the Unix/Linux Environment Verification of Completion will be granted by the division upon completion of 14 units.

COMPUTER SCIENCE TRANSFER PROGRAM

NOTE: Computer Science is a rapidly changing field. Contact a Cerritos College Counselor in order to optimize preparation for transfer.

COMMON LOWER DIVISION PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

	UNITS
MATH 170 Analytic Geometry and Calculus I	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

CIS 230 Assembly Programming for Microcomputers	4
MATH 190 Analytic Geometry and Calculus II	4
PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4

NOTE: students entering the computer science program must earn a grade of "C" or better in each course taken in the department and in all direct and indirect prerequisites courses before advancing to the next level course.

California State University – Long Beach

CIS 182 JAVA Programming	3.5
CIS 280 Object-Oriented Programming in C++	3
PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4

California State University – Los Angeles

CIS 205 Programming in HTML for the World Wide Web	1.5
MATH 190 Analytic Geometry and Calculus II	4
PHYS 101 General Physics	4
PHYS 102 General Physics	4

NOTE: Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State University – Fullerton

A maximum of 6 units of a grade of "D- (.7) through "D+" (1.3) can count towards the Computer Science technical electives or the requirements in related fields (excluding the mathematics requirement).

CIS 214 Unix	3
CIS 292 Data Structures	3.5
MATH 190 Analytic Geometry and Calculus II	4
BIOL 120 Introduction to Biological Sciences	4

One of the following Physical Science Combinations:

PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4
or CHEM 111 General Chemistry	(5)
CHEM 112 General Chemistry	(5)
or GEOL 101 Physical Geology	(4)
GEOL 201 Earth History	(4)

NOTE: All CS students must select an elective track from the following: multimedia and digital game technologies, internet and enterprise computing tech, software engineering, scientific computing, and customized after transfer to CSUF.

California State Polytechnic University – Pomona

CIS 182 JAVA Programming	3.5
CIS 230 Assembly Programming for Microcomputers	4
CIS 280 Object-Oriented Programming in C++	3
CIS 282 Advanced JAVA Programming	3.5
CIS 292 Data Structures	3.5
MATH 190 Analytic Geometry and Calculus II	4
MATH 220 Analytical Geometry and Calculus III	4
BIOL 120 Introduction to Biological Science	4
CHEM 111 General Chemistry	5
PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4
PHYS 203 Engineering Physics	4

University of California – Irvine

(Information and Computer Science/Computer Science Majors)

CIS 280 Object-Oriented Programming in C++	3
CIS 182 Java Programming	3.5
CIS 292 Data Structures	3.5
MATH 190 Analytic Geometry and Calculus II	4

In addition to the above requirements the Computer Science major also requires one of the following Science combinations:

PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4
or PHYS 201 Engineering Physics	(4)
PHYS 203 Engineering Physics	(4)
or CHEM 111 General Chemistry	(5)
CHEM 112 General Chemistry	(5)
or BIOL 200 Principles of Biology	(5)
or BIOL 201 Principles of Biology	(5)

Applicants to the Information and Computer Science and Computer Science major must complete 1) one year of calculus and 2) one year of computer science courses including a UC-transferable programming course (with a grade of B or better for Computer Science majors).

University of California – Los Angeles

CIS 180	Programming in C/C++	3
or CIS 280	Object-Oriented Programming in C++	(3)
CIS 230	Assembly Programming for Microcomputers	4
CIS 292	Data Structures	3.5
MATH 190	Analytic Geometry and Calculus II	4
MATH 220	Analytical Geometry and Calculus III	4
MATH 240	Calculus and Differential Equations	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
ENGL 100	Freshman Composition	4
and ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical Argumentative Writing	(3)
or PHIL 103	Philosophical Reasoning: Critical Thinking in Philosophy	(3)
or PSYC 103	Critical Thinking in Psychology	(3)
or SPCH 235	Fundamentals of Argumentation and Persuasion	(3)

Computer Science is highly competitive and requires a minimum of UC-transferable cumulative GPA of 3.2 for consideration. Recommend: 1 course from each of the following categories: arts, Humanities, Social Sciences and life science. Contact counselor for assistance in selecting these courses.

ASSOCIATE IN ARTS REQUIREMENTS:

Complete the 60 units to include (1) Math 170, 190, Phys 201, CIS 180, 280. (2) The Associate in Arts general education degree requirements.

CAREER OPPORTUNITIES: Computer science graduates are primarily prepared for the area of software design. Graduates usually are recruited by hardware manufacturers and are then involved in the design of vendor supplied software, such as compilers, operating systems, and utility programs.

See Cerritos College Graduation Requirements.

See State University General Education List.

COSMETOLOGY

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements of a Certificate of Achievement in Cosmetology.

Additional coursework will be necessary to complete Cerritos College Graduation Requirements and achieve the minimum of 60 units.

The cosmetology curriculum consists of a minimum of 1600 clocked hours of cosmetology class work. The curriculum prepares the student for the State Board of Cosmetology Examination.

Students enrolling in the Cosmetology Program should contact the Cosmetology Department or a Cosmetology counselor for information regarding the cost of the kit, uniforms, and books.

Students may complete the Cosmetology Program by enrolling in one of the following plans:

FULL TIME DAYS: The full-time day student may complete the 1600-hour program by (1) two regular semesters and one eight-week summer session over a period of one calendar year, or (2) three regular semesters over a period of one and one-half years.

EVENINGS: Students enrolling in this plan attend class 5:30 p.m.-10:30 p.m. Monday through Thursday. It requires approximately five or six semesters to complete the 1600-hour program.

MAJOR REQUIREMENTS

FULL TIME (8:30 a.m. to 5:00 p.m. Monday through Friday)

CERTIFICATE OF ACHIEVEMENT – FULL TIME STUDENT		UNITS
COS 50A	Introductory Cosmetology I	6.5
COS 50B	Introductory Cosmetology II	6.5
COS 50C	Introductory Cosmetology III	6.5
or COS 70A	Introductory Cosmetology	(8.0)
COS 51A	Intermediate Cosmetology I	6.5
COS 51B	Intermediate Cosmetology II	6.5
COS 51C	Intermediate Cosmetology III	6.5
or COS 70B	Intermediate Cosmetology	(8.0)
COS 52A	Advanced Cosmetology I	6.5
COS 52B	Advanced Cosmetology II	6.5
COS 52C	Advanced Cosmetology III	6.5
or COS 70C	Advanced Cosmetology Manipulation	(8.0)

MINIMUM UNITS REQUIRED 58.5

MINIMUM HOURS REQUIRED 1600

COS 53 may be repeated for a maximum of 19.5 units as necessary to complete the 1600 hours required by the Bureau of Barbering and Cosmetology.

CERTIFICATE OF ACHIEVEMENT – PART TIME STUDENTS		UNITS
COS 60A	Introductory Cosmetology I	10.0
COS 60B	Introductory Cosmetology II	10.0
or COS 71A	Introductory Cosmetology	(4.0)
and/or COS 71B	Introductory Cosmetology II	(4.0)
COS 61A	Intermediate Cosmetology I	10.0
COS 61B	Intermediate Cosmetology II	10.0
or COS 72A	Intermediate Cosmetology I	(4.0)
and/or COS 72B	Intermediate Cosmetology II	(4.0)
COS 62A	Advanced Cosmetology I	10.0
COS 62B	Advanced Cosmetology II	10.0
or COS 73A	Advanced Cosmetology I	(4.0)
and/or COS 73A	Advanced Cosmetology II	(4.0)

COS 63 may be repeated for a maximum of 10.0 units as necessary to complete the 1600 hours required by the Bureau of Barbering and Cosmetology.

These courses are designed to permit the student to complete 1600 hours necessary to take the State Board of Cosmetology examination.

COS 1	Cosmetology Salon Preparation	1.0
COS 1L	Cosmetology Skills Development Lab	0.5

This is an introductory course providing an overview of cosmetology careers as a cosmetologist, esthetician, or manicures. The emphasis will be understanding the requirements required to achieve a cosmetology license.

COS 25	Introduction to Cosmetology Careers	2.0

Employment Opportunities upon Completion of the Program: Hair Stylist or Hair Technician.

ESTHETICIAN PROGRAM**MAJOR REQUIREMENTS**

		UNITS
COS 54	Introductory Esthetician	10
COS 54A	Advanced Esthetician	10

RECOMMENDED ELECTIVES

		UNITS
BA 100	Fundamental of Business	3
LAW 111	Business Law	3
BA 114	Marketing	3
BA 117	Introduction to Supervision	3
BA 121	Sales	3
BA 153	Small Business Management	3
BCOT 114	Introduction to Microsoft Office	3.5
ACCT 60	Quick Book Accounting	1.5
TH 123	Stage Make-up	3
		26

CERTIFICATE OF ACHIEVEMENT

The Esthetician curriculum consists of a minimum of 600 clock hours of esthetic class work. The curriculum prepares the student for the State Board of Cosmetology Examination for Esthetician. Students enrolling in the esthetician Program should contact the Cosmetology Department or a cosmetology counselor for information regarding the cost of the kit, uniforms, and books.

Students may complete the Esthetician program PART-TIME – DAYS: the student may complete the 600-hour program by attending two regular semesters and attend class from 11:30 a.m. – 4:30 p.m. Monday through Thursday. EVENINGS: Students enrolling in this plan attend class 5:30 p.m. – 10:30 p.m. Monday through Thursday. It requires two regular semesters to complete the 600 – hours program.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

The completion of 60 units to include: 1) courses for completion of the Certificate of Achievement in Esthetics, 2) General education course requirements) and electives as needed.

See Cerritos College Graduation Requirements

VOCATIONAL AND PROFESSIONAL OPPORTUNITIES AT COMPLETION OF PROGRAM AND AFTER OBTAINING THE ESTHETICIAN LICENSE:

Day salon or spa owner, distributors and manufacturers of specialty skin care, product educators, make-up artist on movie sets, television and theaters. Licensed Estheticians who are interested in working in a medical setting are highly desired by plastic surgeons and dermatologists as freelance Estheticians or as paramedical Estheticians.

COURT REPORTING-SEE BUSINESS COURT REPORTING**CULINARY ARTS-CHEF'S TRAINING CERTIFICATE OF ACHIEVEMENT**

		UNITS
CA 52	Food Production	6
CA 53	Commercial Food Production: Pantry Items	9.5
CA 54	Commercial Food Production: Meats & Poultry	9.5
CA 60	Foods Purchase and Control	3
CA 65	Food Costing	2
CA 101	Introduction to Food Service Safety & Sanitation	1
TOTAL CERTIFICATE UNITS		31

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete 60 units to include (1) the above requirements for the Certificate of Achievement, (2) the Associate in Arts Degree requirements, and (3) electives as needed.

Additional Expenses: Students will be required to purchase a set of knives and two sets of uniforms.

CAREER OPPORTUNITIES: Employment in foods industry as sous chef, chef steward. Also short order cook, pantry person, grade helper, roast cook.

See Cerritos College Graduation Requirements.

CULINARY ARTS-PROFESSIONAL BAKING AND PASTRY CERTIFICATE OF ACHIEVEMENT

		UNITS
CA 60	Foods Purchase and Control	3
CA 80	Introduction to Baking Skill	4
CA 81	Professional Baking & Pastry Production I	5
CA 82	Professional Baking & Pastry Production II	5
CA 101	Introduction to Food Service Safety & Sanitation	1
TOTAL CERTIFICATE UNITS		18

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the above requirements for Certificate of Achievement. Plus for an AA Degree the student must complete the AA Degree general education requirements and electives to achieve a minimum of 60 units.

CAREER OPPORTUNITIES: Employment as a professional baker, pastry chef, pastry cook, and specialty baker.

DANCE TRANSFER PROGRAM

The Dance Department provides a major of study with emphasis in Modern, Jazz and Ballet techniques, composition and performance. It gives the General Education student and the student in closely related areas, experience in dance as an art form.

The following core of courses will provide the dance student with a solid background for upper division work and a transfer curriculum. See Counselor for details.

MAJOR REQUIREMENTS

	UNITS
DANC 100 Dance Appreciation	3
DANC 101 History of Dance	3
DANC 105 Introduction to Dance Movement	3
DANC 106A Beginning Ballet	2
DANC 106B Intermediate Ballet	2
DANC 108A Dance, Modern, Beginning	2
DANC 108B Dance, Modern, Intermediate	2
DANC 110 Commercial Dance	2
TOTAL	19

CHOREOGRAPHY OR PERFORMANCE EMPHASIS

Optional. For students wishing additional dance experience in the areas of choreography or performance

DANC 120 Partnering for Dance	2
DANC 130 Choreography	2
DANC 131 Dance Notation	3
DANC 133 Dance Production	2
DANC 134 Dance Performance	2
DANC 136 Dance Repertory	2

RECOMMENDED ELECTIVE COURSES

DANC 50 Individualized Dance Development	1
DANC 107 Ballet Variations	2
DANC 121 Latin Social	2
DANC 122 Middle Eastern Dance	2
DANC 123 African Dance	2
DANC 124 Hip Hop Dance	2
DANC 125 Introduction to Ballroom	2
DANC 132 Dance and Digital Technology	3
DANC 135 Dance Workshop	2
DANC 140 Beginning Jazz Dance	2
DANC 141 Intermediate Jazz Dance	2
DANC 142 Beginning Tap Dance	2
DANC 143 Intermediate Tap Dance	2
DANC 144 Dance for Musical Theatre	2
PE 138 Yoga	1
PE 139 Pilates Conditioning	1

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above major requirements and all AA degree education requirements for a total of least 60 units.

TRANSFER REQUIREMENTS

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

	UNITS
DANC 108A Modern Dance (Beginning)	2
DANC 108B Modern Dance (Intermediate)	2
DANC 106A Ballet (Beginning)	2
DANC 106B Ballet (Intermediate)	2
DANC 101 History of Dance	3
TH 140 Theatre Dance - Beginning Jazz	2
TH 141 Theatre Dance - Intermediate Jazz	2

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

DANC 109 Introduction to Dance Cultures of the World	2

California State University – Fullerton:

DANC 106B Intermediate Ballet	2
DANC 108A Dance, Modern Beginning	2
DANC 108B Dance, Modern Intermediate	2
DANC 130 Choreography	3
DANC 131 Dance Notation	3

See counselor for additional unit requirements for this emphasis.

University of California – Irvine:

Dance (All emphases electives)

DANC 130 Choreography	3
DANC 101 History of Dance (lecture)	3

And one course from:

DANC 109 Introduction to Dance Cultures of the World	2
or DANC 125 Introduction to Ballroom Dance	2
or DANC 121 Latin Social Dance	2
or DANC 142 Theatre Dance Beginning Tap	2
or DANC 143 Theatre Dance Intermediate Tap	2

Choreography Emphasis and/or Performance Emphasis:

TH 110 Fundamentals of Acting	3.5

Choreography Emphasis:

TH 222 Stage Lighting	3

See counselor for additional unit requirements for this emphasis.

The department offers two degree programs within dance, one with a broad background in dance theory and practice and the other with a specialization in either choreography or performance.

See counselor for details and additional requirements.

Students wishing to major or minor in dance must audition for placement prior to starting the program. Applicants should contact the Department of Dance to obtain audition dates and an audition application form. Students desiring more information should contact the department office for referral to one of the faculty advisors. See a Counselor for additional requirements.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of least 60 units.

CAREER OPPORTUNITIES: Completion of an upper division degree program can lead to employment as a teacher at the secondary, community college or university level in both public and private schools; a performer in dance companies, on television or in dance films/choreographer. Students majoring in such areas as Recreation, Theatre, Physical Education, Fine Arts and Elementary Education would also benefit from the courses within this Dance curriculum.

See Cerritos College Graduation Requirements.
See State University General Education List.

DENTAL ASSISTING

Curriculum leading to Certificate of Achievement and eligibility to write both the California State Board Examination as a Registered Dental Assistant and the National Certifying Board Examination as a Certified Dental Assistant.

LENGTH AND KIND OF PROGRAM

The program is three semesters in length (Fall, Spring, and Summer Session-6 wks). However, students may enter in the Spring Semester by taking selected courses. See the Dental Assisting Counselor.

General education and Dental Assisting classes are scheduled on the College campus and correlated clinical experiences in patient care are obtained at selected dental schools and private dental offices.

Employment in this field requires applicants to have good vision, hearing, and the ability to communicate orally. In addition, applicants must have the ability to comprehend and interpret written information. Applicants must have the dexterity to use small dental instruments to provide dental health care.

ADMISSION REQUIREMENTS

1. Academic Requirements
 - a. High school graduate or satisfactory scores on the General Education Development Examination (given at most Adult Education Centers).
 - b. Submit transcripts indicating a 2.0 Grade Point Average in all High School and College courses or consent of the Dental Assisting Department.
 - c. Take college assessment test and achieve a satisfactory score in English or all deficiencies can be cleared while enrolled in the Dental Assisting Program.
2. Health
 - a. Applicant must present evidence of physical fitness. Lab and immunizations records must be completed after acceptance into the program. The student is responsible for all costs incurred.

EXPENSES

Enrollment fee, project fees, uniforms and books will cost approximately \$1200. Students are responsible for their own living accommodations, including uniform laundry and transportation to extended campuses. In the first semester of the program, immunization for Hepatitis B and other infectious diseases is required. Immunization expenses are the student's responsibility.

ATTENDANCE, SCHOLARSHIP, PROMOTION

Attendance: All students will be expected to observe the attendance requirements as set by the Dental Assisting Department at Cerritos College.

Scholarship and Promotion: In order to remain enrolled in the Program, the student must maintain "C" or better in both theory and clinical courses.

ACCEPTANCE OF STUDENTS AT ADVANCED STANDING

Requests for acceptance into the Program at an advanced level will be evaluated on an individual basis after the applicant has met all College requirements.

PROCEDURE FOR APPLICATION (To be completed in order as listed)

1. Complete application for admission to Cerritos College.
 - a. Request two copies of your high school and/or college transcripts. Send one copy to the Health Occupations Division Office and one copy to the Admissions Office.
 - b. Call for an application to the Dental Assisting Program, (562) 860-2451, Ext. 2550.
2. Return completed application to the Health Occupations Division, 11110 Alondra Blvd., Norwalk, California 90650.
3. As soon as requested materials are received, the student will be notified in writing regarding eligibility to enroll in the dental assisting program.

CERTIFICATE OF ACHIEVEMENT

FIRST SEMESTER

		UNITS
DA 51	Applied Dental Science I	4
DA 52	Dental Radiography I	2
DA 53	Introduction to Chairside Assisting	3
DA 54	Introduction to Operatory Procedures	4
		13

SECOND SEMESTER

DA 61	Applied Dental Science II	3
DA 62	Dental Radiography II	2
DA 63	Advanced Chairside Assisting	4
DA 64	Dental Office Management	2
DA 65	Clinical I Dental Schools	3
		14

SUMMER SESSION

DA 75	Clinical II Cooperative Office Training	5

TOTAL CERTIFICATE REQUIREMENTS		
		32

To earn a Certificate of Achievement, a student must (a) verify typing proficiency by taking a college typing or computer course with a "C" or better grade or receive a "B" or better in a high school typing or computer course, (b) achieve a satisfactory score in English on the College Placement Test or clear deficiencies, and (c) submit evidence of a current Basic Life Support CPR Certificate to the Dental Assisting counselor.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet all the requirements as listed for a Certificate of Achievement in Dental Assisting. For an AA Degree, a student must also take electives and General Education to achieve a minimum of 60 units. Recommended electives for students interested in Dental Hygiene Program: CHEM 100 MICRO 200 A&P 200, 201, HO 152

DENTAL HYGIENE

A registered dental hygienist is a preventive oral health professional licensed in dental hygiene who provides educational, clinical and therapeutic services supporting total health through the promotion of optimal oral health.

The Dental Hygiene Program is a two-year degree program and includes one summer session. Upon completion of the program, graduating students will receive an Associate in Arts Degree in Dental Hygiene and will qualify to take the National and State Board Dental Hygiene Examinations. Successful passage of the examinations qualifies the graduate to practice dental hygiene in the State of California.

A career in dental hygienist offers multiple opportunities in a variety of settings. A registered dental hygienist may work in such practice settings as: private dental offices and dental clinics; federal, state and local health departments or associated institutions; hospitals and nursing homes; school districts or departments of education; educational programs for dental, dental hygiene and dental assisting students; private business/industry; correctional facilities; private and public centers for pediatric, geriatric and other individuals/groups with special needs; or health maintenance organizations.

Applicants desiring employment in this field are required to have good vision and the ability to communicate orally. In addition, they must have the capacity to comprehend, analyze, evaluate and record in patients' charts, and have the dexterity to use small dental instruments to provide dental hygiene care.

DENTAL HYGIENE PROGRAM REQUIREMENTS

I. PREREQUISITES

- A. CHEM 100, A&P 200, A&P 201, (or A&P 150 and A&P 151), HO 152 and MICRO 200 or equivalent with a grade of "C" or higher.
- B. The acceptance of college work previously completed is at the discretion of Cerritos College and the Dental Hygiene Department. Factors such as elapsed time since the course was completed and grades will be used in determining whether a previously completed course can be accepted towards fulfillment of the graduation requirement. Five years is usually considered maximum elapsed time.
- C. In an attempt to increase eligibility by repeating a prerequisite course to obtain a higher grade, the Dental Hygiene Department will allow any prerequisite course to be repeated a maximum of ONE time, and will accept the higher of the two grades earned.
- D. A valid adult, child, and infant CPR card including two person CPR is required prior to enrolling in the Dental Hygiene Program and must be kept current. CPR courses approved by the State Board are given through the American Heart Association and the American Red Cross.

II. REQUIRED TESTS AND INFORMATION

- A. Cerritos College Assessment Tests Battery
Receive satisfactory scores on the Cerritos College Assessment/ Placement Tests or achieve clearance by taking the appropriate college courses. A 12th grade reading level is required for admission into the program.
- B. Preliminary Transcript Evaluation
It is the student's responsibility to make an appointment with the Counseling Department at Cerritos College to verify equivalent prerequisites and other courses required in the program. The Preliminary Transcript Evaluation must be filled out and signed by a Cerritos College counselor and then submitted to the Health Occupations Division Office along with your Dental Hygiene Application. To complete this procedure, the student must have a student copy of all transcripts from previously attended colleges and documentation of courses in progress.
- C. Application forms
If not presently enrolled in courses at Cerritos College, apply for admission to the college at the Admissions and Records Office in the Administration building or apply online at www.cerritos.edu. You will be assigned a student number which you will need to make an appointment with a dental Hygiene counselor or to attend an application workshop.
- D. Work Experience
For every related work experience listed, a Verification of Dental Employment form must be completed and mailed to the Health Occupations division Office. Additional forms are available upon request in the Health Occupations Division Office or online at www.cerritos.edu (dental hygiene). Letters of recommendation are not considered.

III. SELECTION PROCEDURES

- A. Academic evaluation
 1. All required documents, including Dental Hygiene application, preliminary transcript evaluation, verification of dental employment forms, copy of RDA or RDAEF License, ALL official college transcripts, and work-in-progress must be in our possession in the Health Occupations Division Office, by April 1 (of the year of application).
 2. Points will be earned for the following criteria:
 - a. Grade Point Average in prerequisites
 - b. Number of units completed up to 60 semester units
 - c. Overall Grade Point Average for all college courses
 - d. Additional science courses with a grade of "B" or higher
 - e. Related dental work experience
 3. Selection will be based upon academic evaluation and data obtained from the application forms. Candidates will be notified of their application status by mail during the month of May.
- B. Health Forms
Physical examinations, immunization, TB testing and background checks are required prior to patient care and taking the licensure examinations. Health and immunization forms will be issued to those applicants who are accepted in the program. Dental health professionals may be exposed to contagious diseases therefore strict compliance with CDC and OSHA standards are maintained. Policies on blood borne and infectious diseases are available upon requested from the Dental Hygiene Department or on the Dental Hygiene website.

IV. EXPENSES

- A. See Cerritos College catalog for enrollment and out-of-state resident fees.
- B. The student may expect to spend approximately \$10,000 for books and instruments, equipment, uniforms, immunizations, and miscellaneous fees. Students are strongly encouraged to join the Student American Dental Hygienists' Association (SADHA) (\$45.00 annually). Fees are subject to change.

V. SCHOLARSHIP, ATTENDANCE, PROMOTION, GRADUATION

- A. Attendance: All students are required to observe the attendance requirements of the college. Due to the nature of the Dental Hygiene program it is expected that student will attend all classes.
- B. Scholarship and Promotion: Students are required to maintain a grade of "C" or higher in each dental hygiene and dental education course in order to progress in the program. Courses are designed to prepare the student to successfully complete program competencies. Grade requirements of the college are to be met for all other courses.
- C. Graduation: petition for graduation will be permitted if the student meets both the college and the Dental Hygiene Program requirements for graduation. Upon completion of the program the graduate will be qualified to take the Dental Hygiene National Board and the California State Board Examinations.

VI. CRIMINAL BACKGROUND CHECKS

- A. Clinical placements are a mandatory component of the curriculum and may require clearance of a criminal background check. Students who do not clear agency requirements are not eligible for clinical placement and will, consequently, be ineligible to continue in the program. If there is any concern regarding clearance of a criminal background check, please contact the Health Occupations Division for additional information.
- B. Applicants for examination of licensure in the state of California must be fingerprinted and report information related to illegal use of controlled substances, infectious or contagious diseases and any convictions or pleas of nolo contendere even if charges are dismissed. In addition, the application requires specific information related to convictions, misdemeanor or felony, associated with state or federal action. If there is any concern that may prevent licensure after graduation, direct inquiries to the State Board of Dental Examiners, Committee on Auxiliaries, 1428 Howe Avenue, Sacramento, CA 95825, prior to applying to the program.

DENTAL HYGIENE

ASSOCIATE IN ARTS DEGREE

Please note, the Dental Hygiene program requires the student to take as many as seven courses during any one semester. Consequently, commitment to a rigorous study schedule is imperative.

MAJOR REQUIREMENTS

		UNITS
FIRST YEAR		
First Semester		
DH 110	Preventive Dentistry I	2
DH 111	Infection Control and Dental Office Emergencies	2
DH 112	Dental Hygiene Radiography	2
DH 114	Dental Hygiene Clinical Sciences I	2
DH 115C	Pre-Clinical Dental Hygiene I	2
DH 116	Head and Neck Anatomy	2
DH 119	Dental Embryology, Histology and Anatomy	2
TOTAL UNITS		14
Second Semester		
DH 120	Preventive Dentistry	2
DH 125	Dental Hygiene Clinical Sciences II	2
DH 125C	Clinical Dental Hygiene II	3
DH 126	General and Oral Pathology	2
DH 127	Pharmacology	2
DH 128	Management of Pain	2
DH 129	Applied Periodontics	2
TOTAL UNITS		15
SUMMER SESSION		
DH 150C	Clinical Dental Hygiene IIA	1
SECOND YEAR		
First Semester		
DH 232L	Dental Materials Laboratory	1
DH 234	Dental Care for the Special Patient	2
DH 235	Dental Hygiene Clinical Sciences III	2
DH 235C	Clinical Dental Hygiene III	4
DH 238L	Community Dental Health Laboratory I	1
DH 239	Dental Health Education & Research I	2
TOTAL UNITS		12
Second Semester		
DH 244	Ethical Issues in Dental Hygiene	2
DH 245	Dental Hygiene Clinical Sciences IV	2
DH 245C	Clinical Dental Hygiene IV	4
DH 248L	Community Dental Health Laboratory II	1
DH 249	Dental Health Education and Research II	2
TOTAL UNITS		11
TOTAL CERTIFICATE		53

The following requirements also must be completed to qualify for the AA Degree:

General Introductory Psychology (PSYC 101)
 Freshman Composition (ENGL 100)
 Speech (SPCH 100,130,132, 150 or 235)
 American Political Institutions (POL 101 or 201) OR
 History (HIST 101, 201 and 202)
 Introductory Sociology Principles (SOC 101,201, 215, PHIL 104, ANTH 100 or 101)
 *Humanities OR Fine Arts (3 units)

*See Cerritos College General Education Requirements for the appropriate lists of courses acceptable for meeting the Humanities and Fine Arts Requirements.

CAREER OPPORTUNITIES: Upon completion of the Associate in Arts Degree Program and after passing the State Licensing Examinations a student may seek employment as a dental hygienist with individual dentists, clinics, school districts and various other institutions.

DENTAL HYGIENE TRANSFER PROGRAM

(The following curriculum does not lead to an Associate in Arts Degree. To earn an AA degree, see Dental Hygiene in the catalog for the major requirements.)

DENTAL HYGIENE TRANSFER PROGRAM

University of Southern California

Minimum entrance requirements:

BIOL 201
 or BIOL 200
 A&P 200
 CHEM 111
 CHEM 112
 ENGL 100
 ENGL 102 OR ENGL 103
 PSYC 101
 SOC 101
 SPCH 100
 or SPCH 130

Students must complete the USC general education requirements, (categories I,II,III,V) and the writing and diversity requirements in addition to the above courses.

University of California – San Francisco

A moratorium has been placed on new admissions to the UCSF School of Dentistry Dental Hygiene program, effective for the Fall 2004 session. No new students will be admitted to the program at this time.

Please refer to the UCSF School of Dentistry Webpage <http://dentistry.ucsf.edu> for developments on the Dental Hygiene program.

ECONOMICS TRANSFER PROGRAM

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Long Beach		UNITS
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
ACCT 101	Fundamentals of Accounting I	4
MATH 116	Calculus for Managerial, Biological & Soc. Sciences	4
or MATH 170	Analytic Geometry and Calculus I	(4)

The major also requires a minimum of two courses outside Economics (totaling at least 6 units). Students may take any of the following lower-division courses: ANTH 100; GEOG 105; HIST 241, HIST 242; MATH 115, MATH 150, MATH 190, MATH 220; PSYC 101; SOC 220, SOC 101.

Option in Mathematical Economics and Economic Theory

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
MATH 220	Analytic Geometry and Calculus III	4

Business Economics - B.A.

Same requirements as Economics except that the minimum of two courses outside Economics is not required.

California State University – Fullerton

Student must earn a grade of at least "C" in each course listed below.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
ACCT 101	Fundamentals of Accounting I	4
and ACCT 133	Spreadsheet Accounting I	3
MATH 116	Calculus for Managerial, Biological & Soc. Sciences	4
or MATH 170	Analytic Geometry and Calculus I	(4)
MATH 190	Analytic Geometry and Calculus II	4
or ACCT 102	Fundamentals of Accounting II	(4)
and ACCT 133	Spreadsheet Accounting I	(3)
CIS 101	Introduction to Computer Information Systems	3

There is also a CSUF lower-division business writing course required which is not offered at Cerritos College.

California State University – Dominguez Hills

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 112	Elementary Statistics	4

Additional courses required for concentrations.

General Economics Concentration

ACCT 101	Fundamentals of Accounting I	4
or MATH 170	Analytic Geometry and Calculus I	(4)

Quantitative Economics Concentration

CIS 101	Introduction to Computer Information Systems	3
or CIS 171	Visual Basic Programming	(3)
MATH 116	Calculus for Managerial, Biological & Soc.Sciences4	

California State University – Los Angeles

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 112	Elementary Statistics	4

Additional courses required for options.

Option 1: Applied Economics

ACCT 101	Fundamentals of Accounting I	4
and ACCT 102	Fundamentals of Accounting II	4
CIS 101	Introduction to Computer Information Systems	3
MATH 170	Analytic Geometry and Calculus I	4
or MATH 116	Calculus for Managerial, Biological & Soc. Sciences	(4)

Option 2: Social and Behavioral Sciences

BUSA 101	Fundamentals of Accounting I	4
and BUSA 102	Fundamentals of Accounting II	4
MATH 116	Calculus for Managerial, Biological & Soc. Sciences	4

Additional courses recommended.

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

University of California – Los Angeles

Listed below are the lower division preparation courses for the major. **THIS MAJOR IS HIGHLY SELECTIVE.** All preparatory courses should be completed by the spring term just prior to transfer. All courses must be taken for a letter grade. The calculus course requirements should be met as early as possible. **After transfer to UCLA, students may not change their major to Economics if they were originally admitted to a major outside the Department of Economics.**

For more information regarding this major and UCLA's transfer selection process, visit, www.econ.ucla.edu and www.admissions.ucla.edu.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)
or PHIL 103	Philosophical Reasoning: Critical Thinking in Philosophy	(3)
or PSYC 103	Critical Thinking in Psychology	(3)
or SPCH 235	Fundamentals of Argumentation and Persuasion	(3)

BUSINESS ECONOMICS - B.A.

THIS MAJOR IS HIGHLY SELECTIVE. All preparatory courses should be completed by the spring term just prior transfer. All courses must be taken for a letter grade. The calculus course requirements should be met as early as possible. **After transfer to UCLA, students may not change their major to Business Economics if they were originally admitted to a major outside the Department of Economics.**

NOTE: The Business Economics major does not replicate the traditional undergraduate business school curriculum.

For more information regarding this major and UCLA's transfer selection process, visit www.econ.ucla.edu and www.admissions.ucla.edu.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)
or PHIL 103	Philosophical Reasoning: Critical Thinking in Philosophy	(3)
or PSYC 103	Critical Thinking in Psychology	(3)
or SPCH 235	Fundamentals of Argumentation and Persuasion	(3)
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4

ECONOMICS/INTERNATIONAL AREA STUDIES - B.A.

THIS MAJOR IS HIGHLY SELECTIVE. Except for the courses in foreign language, ALL preparatory Courses should be completed by the spring term just prior to transfer. All courses must be taken for a letter grade. The calculus course requirements should be met as early as possible. **After transfer to UCLA, students may not change their major to Economics/International Area Studies if they were originally admitted to a major outside the Department of Economics.** For more information regarding this major and UCLA's transfer selection process visit www.econ.ucla.edu and www.admissions.ucla.edu.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
FREN 203*	Intermediate French, Advanced Level I	4
or GERM 202*	Intermediate German	(4)
or JAPN 202*	Intermediate Japanese	(4)
or SPAN 202*	Intermediate Spanish	(4)

*The 6th quarter of the same foreign language will have to be completed at UCLA.

University of California – Irvine

ECONOMICS, B.A.

Transfer applicants with the highest grades overall and who have satisfactorily completed course prerequisites will be given preference for admission. All applicants must complete one course in microeconomics, one course in macroeconomics, and one semester or two quarters of approved calculus. Prospective students are advised to complete a second semester of calculus, in addition to the courses required for transfer student admission.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4
MATH 220	Analytic Geometry and Calculus III	4
and MATH 240	Calculus and Differential Equations	4
CIS 101	Introduction to Computer Information Systems	3
or CIS 101	Introduction to Computer Information Systems	(3)
and CIS 103	Computer Programming Logic	(3.5)
or CIS 182	JAVA Programming	(3.5)
CIS 280	Object-Oriented Programming in C++	(3)

Two additional introductory social science courses in disciplines other than economics is another requirement. An approved list of courses can be obtained from ASSIST. Please see a counselor, if necessary, for help.

BUSINESS ECONOMICS, B.A.

Transfer applicants with the highest grades overall who have satisfactorily completed course prerequisites will be given preference for admission. All applicants must complete one course in microeconomics, one course in macroeconomics theory and one semester or two quarters of approved calculus.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4
MATH 220	Analytic Geometry and Calculus III	4
and MATH 240	Calculus and Differential Equations	4
CIS 101	Introduction to Computer Information Systems	3
or CIS 101	Introduction to Computer Information Systems	(3)
and CIS 103	Computer Programming Logic	(3.5)
or CIS 182	JAVA Programming	(3.5)
and CIS 280	Object-Oriented Programming in C++	(3)

Two additional introductory social science courses in disciplines other than economics is another requirement. An approved list of courses can be obtained from ASSIST. Please see a counselor, if necessary, for help.

University of California – Riverside

Completion of the course work listed below is not mandatory for admission into this major.

However, students are advised to complete as much lower division course preparation as possible prior to transfer, to be ready for upper division course work.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

BUSINESS ECONOMICS, B.A.

Completion of the course work listed below is not mandatory for admission into this major. However, students are advised to complete as much lower division course preparation as possible prior to transfer, to be ready for upper division course work.

ECON 201	Principles of Microeconomics	3
ECON 201	Principles of Macroeconomics	3
ACCT 101	Fundamentals of Accounting	4

(Note: Cerritos' BUSA 102 is accepted in lieu of the UCR upper division course, BUS 108 "Financial Evaluation and Managerial Analysis". Students who choose to complete this course prior to transfer will not be required to take BUS 108, but will need to make up the upper division units after transfer.)

MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete ECON 201 & 202 and MATH 80 (or equivalent) plus related coursework to be selected in consultation with a counselor to meet the 18 unit minimum and the AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Economics find employment in business, industry and government as price and market analysts, planning consultants and related occupations.

See Cerritos College Graduation Requirements.

EDUCATIONAL TECHNOLOGY PROGRAM

EDUCATIONAL TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

UNITS

You must complete 11 units in the following area:

EDT 100	Integration of the Internet to the Curriculum	2
EDT 103	Spreadsheets for Educators	2
EDT 104	Word Processing for Educators	2
EDT 105	PowerPoint for Educators	2
EDT 111	Web Design Using FrontPage	1
EDT 125	Fundamentals of Teaching Online Courses	2

11

Additional Requirements – You must complete 7 units in the following area:

EDT 19	Fundamentals of Teleconferencing	1
EDT 43	Ed Tech Occupational Work Experience	3
EDT 50	Preparation for Online Learning	1
EDT 51	Email for Educators	1
EDT 52	Windows for Educators	1
EDT 53	Macintosh for Educators	1
EDT 57	Apple/Claris Works for Educators	1
EDT 67	Inspiration Presentations	1
EDT 68	Using KidPix	1
EDT 81	Videos for School Use	2
EDT 101	Creating Curriculum Projects Using the Internet	1
EDT 106	Access for Educators	2
EDT 107	Desktop Publishing for Educators	1
EDT 108	Photoshop Elements for Educators	2
EDT 109	Developing Campus Based Portfolios	1
EDT 112	Virtual Curriculum	3
EDT 114	Microsoft Producer for Educators	2
EDT 115	Technology Integration in Education	1
EDT 119	Hardware and Software Considerations for Educators	1
EDT 120	Exploring Assistive Technology in Education	2
EDT 121	Using Handheld Computers in Education	2
EDT 122	Fundraising/Grand Writing for Educators	2
EDT 123	Internet tools for Educators	2
EDT 132	Digital Music in the Classroom	2
EDT 137	iMovie/Movie Maker in Education	2
EDT 138	Teaching with Clay Animation	2
EDT 150	Podcasting in Education	2
ART 196	Introduction to Designing Web Graphics	3

CIS 50	Computer Literacy	.5
CIS 121	Introduction to Internet	1.5
PHOT 112	Intermediate Digital Photography	3

TOTAL CERTIFICATE REQUIREMENT: 18

To be awarded a Certificate of Achievement by the college, a student must complete all major requirements and 9 additional units from the list above to total a minimum of 18 units.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the major requirements for the Certificate of Achievement and all AA degree general education requirements for a total of at least 60 units.

Although some of these courses are transferable, this certificate/AA Degree is nontransferable.

Please see counselor or the respective department for additional alternatives.

INSTRUCTIONAL MULTI-MEDIA CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

You must complete 11 units in the following area

		UNITS
EDT 19	Fundamentals of Teleconferencing	1
EDT 82	Interactive Multi-Media in Curriculum	1
EDT 100	Integration of the Internet Into Curriculum	2
EDT 105	PowerPoint for Educators	2
EDT 107	Desktop Publishing for Educators	1
EDT 111	Web Design for Educators	1
EDT 119	Hardware and Software Considerations for Educators	1
EDT 125	Fundamentals of Online Teaching	2
		11

Additional Requirements--You must complete 7 units in the following area:

EDT 43	EdTech Occupational Work Experience	3
EDT 50	Preparation for Online Learning	1
EDT 51	Email for Educators	1
EDT 52	Windows for Educators	1
EDT 53	Macintosh for Educators	1
EDT 57	Apple/Claris Works for Educators	1
EDT 64	HyperStudio Basics	1
EDT 65	Advanced HyperStudio	1
EDT 67	Inspiration Presentations	1
EDT 68	Using KidPix	1
EDT 81	Videos for School Use	2
EDT 101	Creating Curriculum Projects Using the Internet	1
EDT 106	Access for Educators	1
EDT 112	Virtual Curriculum	3
EDT 115	Technology Integration in Education	1
EDT 120	Exploring Assistive Technology in Education	2
ART 196	Introduction to Designing Web Graphics	3
CIS 50	Computer Literacy	.5
CIS 121	Introduction to Internet	1.5
PHOT 112	Intermediate Digital Photography	3

TOTAL CERTIFICATE REQUIREMENT: 18

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete all the major requirements for the Certificate of Achievement and all AA degree general education requirements for a total of at least 60 units.

Although some of these courses are transferable, this certificate/AA Degree is nontransferable.

Please see counselor or the respective department for additional alternatives.

TELECONFERENCING PRACTITIONER CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

You must complete 14 units in the following area
Take the following:

		UNITS
EDT 19	Fundamentals of Teleconferencing	1
EDT 20	Teleconferencing for Small Groups	2
EDT 21	Teleconference Telemeatic	1
EDT 22	Teleconference Event Review and Evaluation	1
EDT 23	Teleconference Production Studio	3
EDT 24	Teleconference Portfolio Workshop	3
EDT 52	Windows for Educators	1
EDT 53	Macintosh for Educators	1
EDT 119	Hardware and Software Considerations for Educators	1
		14

Additional Requirements--You must complete 4 units in the following area.

ART 196	Introduction to Designing Web Graphics	3
CIS 50	Basic Computer Literacy	.5
EDT 43	EdTech Occupational Work Experience	3
EDT 50	Preparation for Online Learning	1
EDT 51	Email for Educators	1
EDT 57	Apple/Claris Works for Educators	1
EDT 64	Hyperstudio Basics	1
EDT 65	Advanced Hyperstudio	1
EDT 67	Inspiration Presentations	1
EDT 68	Using Kidpix	1
EDT 81	Videos for School Use	2
EDT 101	Creating Curriculum Projects Using the Internet	1
EDT 106	Access for Educators	1
EDT 107	Desktop Publishing for Educators	1
EDT 112	Virtual Curriculum	3
EDT 115	Technology Integration in Education	1
EDT 120	Exploring Assistive Technology in Education	2
PHOT 112	Intermediate Digital Photography	3

TOTAL CERTIFICATE REQUIREMENT: 18

To be awarded a Certificate of Achievement by the college, a student must complete all the major requirements and 4 additional requirement section to total a minimum of 18 units.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the requirements for the Certificate of Achievement and all AA degree general education requirements for a total of at least 60 units.

Please see counselor or the respective department for additional alternatives.

ELECTRONICS TECHNOLOGY ASSOCIATE IN ARTS DEGREE

REQUIRED COURSES

ELECTRONICS TECHNOLOGY - BASIC CORE

	UNITS
EL 50 Electronic Tests and Measurements	1.5
EL 60 Computer Aided Circuit Analysis	1.5
EL 110 Principles of DC Electronics	4
EL 110L DC Electronics Laboratory	1
EL 120 Principles of AC Electronics	4
EL 120L AC Electronics Laboratory	1
EL 134 Digital Circuits and Computer	3
EL 134L Digital Circuits and Computer Logic Lab	1
EL 200 Semiconductor Electronics	3
EL 200L Semiconductor Electronics	1
TM 50 Technical Mathematics	3
or MATH 140 Trigonometry	3
TOTAL CERTIFICATE REQUIREMENTS:	24

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete requirements for a Certificate of Achievement in Electronics Technology. For an AA Degree, a student must also take the general education requirements to achieve a minimum of 60 units.

RECOMMENDED ELECTIVES: CIS 56, CIS 70A, CIS 101, CIS 102.

CAREER OPPORTUNITIES: Opportunities for electronic technicians include the aerospace, automotive, transportation, computer, instrumentation, telecommunication, television broadcasting, entertainment, motion picture, process control, manufacturing and health care industries and government agencies.

See Cerritos College Graduation Requirements.

ELECTRONICS TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES

ELECTRONICS PROGRAM BASIC CORE COURSES

	UNITS
EL 50 Electronic Tests and Measurements	1.5
EL 60 Computer Aided Circuit Analysis	1.5
EL 110 Principles of DC Electronics	4
EL 110L DC Electronics Laboratory	1
EL 120 Principles of AC Electronics	4
EL 120L AC Electronics Laboratory	1
EL 134 Digital Circuits and Computer Logic	3
EL 134L Digital Circuits and Computer Logic Lab	1
EL 200 Semiconductor Electronics	3
EL 200L Semiconductor Electronics Lab	1
TM 50 Technical Mathematics	3
or MATH 140 Trigonometry	3
TOTAL UNITS	24

ASSOCIATE IN ARTS DEGREE REQUIREMENT:

Complete requirements from a Certificate of Achievement in Electronics Technology. For an AA Degree, a student must also take the general education requirements to achieve a minimum of 60 units.

RECOMMENDED ELECTIVES: CIS 56, CIS 70A, CIS 101, CIS 102.

CAREER OPPORTUNITIES: Opportunities for electronic technicians include the aerospace, automotive, transportation, computer, instrumentation, telecommunication, television broadcasting, entertainment, motion picture, process control, manufacturing, health care industries and government agencies.

INDUSTRIAL ELECTRONICS TECHNOLOGY OPTION

REQUIRED COURSES

ELECTRONICS TECHNOLOGY BASIC CORE COURSES

Additional Required Courses

	UNITS
EL 56 Programmable Logic Controllers	3.5
EL 66 Fundamentals of Electricity	3
EL 76 Industrial Electronic Control	3.5
EL 86 Electric Motor Control	3
TOTAL UNITS	37

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the Industrial Electronics Technology Option (37 units), (2) the Associate in Arts Degree general education requirements, and (3) electives as needed to fulfill the graduation requirements.

RECOMMENDED ELECTIVES: ENGL 155, CIS 56, CIS 70A, CIS 101, CIS 102.

Related Transfer Program: Industrial Technology – Electronics

See Cerritos College Graduation Requirements.

ENGINEERING TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR MOST COLLEGES OF ENGINEERING (CORE)

	UNITS
CHEM 111 General Chemistry	5
MATH 170 Analytic Geometry and Calculus I	4
MATH 190 Analytic Geometry and Calculus II	4
MATH 220 Analytic Geometry and Calculus III	4
PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4

Schools of engineering have similar basic science requirements but differ widely in the preparation for the various engineering options available. The following science, engineering, technical support, and math courses meet specific requirements for transfer as needed for the several options usually available at the four-year college level.

Contact a Cerritos College engineering counselor for the specific requirements of the school to optimize preparation for transfer. Visit www.assist.org for lower division major requirements for most California public universities.

BIOL 120	Introduction to Biological Science	4
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
BIOL 202	Molecular Biology/Genetics	4
CHEM 112	General Chemistry	5
CHEM 205	Quantitative Analysis Chemistry	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
CIS 178	Programming in Fortran	3
CIS 180	Programming in C/C++	3
CIS 182	JAVA Programming	3.5
CIS 230	Assembly Programming for Microcomputers	4
CIS 280	Object-Oriented Programming in C++	3
CIS 292	Data Structures	4
EL 134	Digital Circuits and Computer Logic	3
EL 134L	Digital Circuits and Computer Logic Laboratory	1
ENGR 112	Engineering Graphics	3
ENGR 123	Descriptive Geometry	3
ENGR 215	Engineering Electric Circuits	3
ENGR 235	Statics	3
ENGT 131	Fundamentals of Design Including Autocad	3
ENGT 138	Fundamentals of Computer Aided Drafting	4
GEOL 101	The Earth Environment	4
MATH 112	Statistics	4
MATH 240	Calculus and Differential Equations	4
MFGT 100	Manufacturing Processes	3
MICR 200	Principles and Applications of Microbiology	5
PHYS 203	Engineering Physics	4

California State University – Long Beach

(CSULB) Offers nine BS degrees: Aerospace, Chemical, Civil, Computer, Computer Science, Construction Engineering Management, Electrical, Mechanical, and General Engineer with options in: Audio, Biomedical and Clinical, Industrial Management, Materials, and Theme Park.

California State University – Fullerton

(CSUF) Has a common core of courses for the first two and one-half years. During the last two years the student selects engineering courses appropriate to one of the four options available: Electrical, Civil, Computer and Mechanical.

California State University – Los Angeles

(CSULA) Offer programs leading to the Bachelor of Science degree in Engineering with option in Civil, Electrical, and Mechanical Engineering.

California State Polytechnic University – Pomona

(CSUP) Engineering school departments: Aerospace, Chemical, Civil, Computer, Electrical, Industrial, Manufacturing, Mechanical. This institution combines technical applied courses with the sciences throughout the entire program. Due to the fact that many of technical courses required cannot be duplicated at the community college level, it is wise to plan on attending Cal Poly during the summer quarter following graduation from Cerritos College.

University of California – Los Angeles

(UCLA) Offers Bachelor's Degree in the following: Aerospace, Bioengineering, Chemical, Civil, Computer Science, Computer Science and Engineering, Electrical, Materials, and Mechanical.

University of California – Irvine

(UCI) Offers Bachelor's Degree in the following: Biomedical, Chemical & Materials Science, Civil and Environmental, Electrical and Computer Science, Environmental, Materials Science, Mechanical and Aerospace.

University of California – Riverside

(UCR) Offers Bachelor's Degree in the following: Chemical, Computer, Computer Science, Electrical, Environmental, Information Systems and Mechanical.

Loyola Marymount University

(LMU) Offers BS Degrees in: Civil Engineering, Civil with an Environmental Engineering emphasis, Electrical Engineering, Electrical with a Computer Engineering emphasis, Mechanical.

For Articulation Agreements go to: www.lmu.edu/PageFactory.aspx?PageID=20288

University Of Southern California

(USC) Offers BS Degrees in: Aerospace Engineering, Applied Mechanics, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering and Computer Science, Computer Science, Electrical Engineering, Environmental Engineering, Industrial and Systems Engineering, Mechanical Engineering.

For Articulation Agreements go to: viterbi.usc.edu/admission/transfer/guides.htm

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the Engineering core, (2) ENGR 112 OR ENGT 131, (3) CIS 177 or 178 or 180 or 280, (4) the Associate in Arts General Education Requirements.

CAREER OPPORTUNITIES: Career opportunities in engineering vary widely depending upon the area of specialization. The Cerritos Career Center provides current and comprehensive career information concerning each engineering discipline. Because engineering is a high unit professional major, the schools of engineering may require special general education classes. Contact a Cerritos engineering counselor for specific information.

See Cerritos College Graduation Requirements.

See State University General Education List.

ENGINEERING DESIGN TECHNOLOGY PROGRAMS VERIFICATION OF COMPLETION/ENGINEERING DESIGN TECHNOLOGY

MACHINE DESIGN AND MANUFACTURING		UNITS
ENGT 131	Design Fundamentals Including AutoCAD	3
ENGT 138	AutoCAD	4
ENGT 153	Machine Design with AutoCAD	3
ENGT 237	Graphical Statics and Strength of Materials	3
ENGT 258	Design and Production Technology with AutoCAD	4

3-D PARAMETRIC MODELING DESIGN AND PRESENTATIONS UNITS

ENGT 117	Geometrical Dimensioning and Tolerancing	2
ENGT 131	Design Fundamentals Including AutoCAD	3
ENGT 138	AutoCAD	4
ENGT 255	AutoDesk VIZ Rendering and Solid Modeling Applications	4
ENGT 259	SolidWorks	4

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DESIGN WITH AUTODESK MAP 3-D

UNITS

ENGT 131	Design Fundamentals Including AutoCAD	3
ENGT 138	AutoCAD	4
ENGT 151	Advanced Applications of Computer Aided Design with AutoCAD	4
ENGT 160	AutoDesk MAP 3-D	4

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SHEET METAL LAYOUT APPLICATIONS WITH 3-D PARAMETRIC SOLID MODELING

ENGT 131	Design Fundamentals Including AutoCAD	3
ENGT 133	Sheet Metal Layout and Applications with Inventor	2
ENGT 138	AutoCAD	4
ENGT 256	Introduction to AutoDesk Mechanical Desktop	4
ENGT 257	AutoDesk Inventor	4

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ENGINEERING DESIGN AND PRODUCTION TECHNOLOGY

ENGT 116	Blueprint Reading for Machine Trades	2
ENGT 131	Design Fundamentals Including AutoCAD	3
ENGT 138	AutoCAD	4
ENGT 265	CATIA I	4
ENGT 266	CATIA II	4

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ENGINEERING DESIGN TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

Recommended High School Preparation:

One year Algebra, one year of Mechanical Drafting

REQUIRED COURSES

UNITS

ENGT 117	Geometrical Dimensioning and Tolerancing	2
ENGT 133	Sheet Metal Layout and Applications with Inventor	2
ENGT 138	AutoCAD	4
ENGT 151	Advanced Applications of Computer Aided Design with AutoCAD	4
ENGT 153	Machine Design with AutoCAD	3
ENGT 160	AutoDesk MAP 3-D	4
ENGT 237	Graphical Statics and Strength of Materials	3
ENGT 255	AutoDesk VIZ Rendering and Solid Modeling Applications	4

ENGT 256	Introduction to AutoDesk Mechanical Desktop	4
ENGT 257	AutoDesk Inventor	4
ENGT 259	Solidworks	4

TOTAL CERTIFICATE REQUIREMENT: 38

ENGINEERING DESIGN AND PRODUCTION TECHNOLOGY OPTION

Above courses required plus

ENGT 116	Blueprint Reading for Machine Trades	2
ENGT 131	Design Fundamentals Including AutoCAD	3
ENGT 258	Design and Production Technology with AutoCAD	4
ENGT 265	CATIA I	4
ENGT 266	CATIA II	4

TOTAL CERTIFICATE REQUIREMENT: 55

ENGINEERING DESIGN TECHNOLOGY

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the above requirements as listed for the Certificate of Achievement in Engineering Design and Production. A student must also complete electives, and AA Degree general education requirements to achieve a minimum of 60 units.

RECOMMENDED ELECTIVES: MFGT 51, MFGT 100, MTT 100, BA 117, MATH 60, TM 50

CAREER OPPORTUNITIES: Designers, master layout person, systems designers, junior design and tool designer, and CAD/CAM designers.

RELATED TRANSFER PROGRAM: Industrial (Engineering) Technology—Manufacturing Option.

See Cerritos College Graduation Requirements.

ENGLISH TRANSFER PROGRAMS

COMMON LOWER DIVISION MAJOR PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

UNITS

ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
ENGL 103	Critical and Argumentative Writing	3
ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3

Foreign Language: Students intending to transfer to the University of California should discuss the foreign language requirement with a counselor.

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University-Dominguez Hills

Select one course from the following:

ENGL 232	Readings in Poetry	3
ENGL 233	Readings in the Novel	3
ENGL 234	Readings in Short Fiction	3
ENGL 235	Readings in the Drama	3

California State University – Long Beach

Option in Literature: required lower-division courses.

ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3

Option in English Education: required lower division.

ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3
ENGL 230A	Introduction to American Literature	3
or ENGL 230B	Introduction to American Literature	3

(ENGL 240, Creative Writing is required of students planning to choose the creative writing option at CSULB.)

California State University – Los Angeles

ENGL 248A	Masterpieces of World Literature	3
ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3

University of California – Berkeley

ENGL 246A	Survey of English Literature	3
ENGL228	Shakespeare's Plays	3

University of California – Irvine

Complete 202 of Intermediate College Level Foreign Language. Select one from the following: FRENCH, GERMAN, JAPANESE or SPANISH

Complete one series (6 units) from the following:

ENGL 230A	Introduction to American Literature	(3)
or ENGL 230B	Introduction to American Literature	(3)
and ENGL 232	Readings in Poetry	(3)
and ENGL 233	Readings in the Novel	(3)
or ENGL 235	Readings in the Drama	(3)
or ENGL 246A	Survey of English Literature	(3)
and ENGL 246B	Survey of English Literature	(3)
or ENGL 248A	Masterpieces of World Literature	(3)
and ENGL 248B	Masterpieces of World Literature	(3)

University of California – Los Angeles

Complete 202 of intermediate college level foreign language. Select from the following: FRENCH, GERMAN, JAPANESE or SPANISH or course 102 of one foreign language, and select two (2) courses from the following:

ENGL 221A	Literature in the Bible: Hebrew Scriptures	3
ENGL 221B	Literature in the Bible: Christian Scriptures	3
ENGL 225	Mexican Literature in Translation	3

University of California – Riverside

Complete two courses from the following:

ENGL 230A	Introduction to American Literature	3
ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	3

Recommended one course from the following:

ENGL 248A	Masterpieces of World Literature	3
ENGL 248B	Masterpieces of World Literature	3

Students intending to transfer should consult with a counselor for academic planning to specify university.

Please consult with www.assist.org frequently to obtain current information.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) ENGL 100 and ENGL 102 or ENGL 103; (2) 12 additional units in English courses selected from ENGL 221A, 221B, 222, 225, 226, 227, 228, 230A, 230B, 232, 233, 234, 235, 246A, 246B, 248A, 248B, and (3) the Associate in Arts Degree general education requirements.

CAREER OPPORTUNITIES: English graduates are employed in a number of fields that require analytical communication skills: publications, communications, media, entertainment, creative writing, government, and business management. Graduate English majors also find English is excellent preparation for advanced studies as wide-ranging as law, theology, psychology, pre-med and business administration.

CREATIVE WRITING/SCREENWRITING VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS:

UNITS

Choose 6 units from the following courses, each repeatable 2 times:

ENGL 240	Creative Writing	3
ENGL 241	Screenwriting	3
or TH 241	Screenwriting	3

Choose 6 units from the following courses:

ENGL 227	Readings in Current Literature	3
ENGL 228	Shakespeare's Plays	3
ENGL 232	Readings in Poetry	3
ENGL 233	Reading in the Novel	3
ENGL 234	Reading in Short fiction	3
ENGL 235	Reading in the Drama	3

TOTAL VERIFICATION OF COMPLETION REQUIREMENTS: 12

All course work required for the verification must be completed with a minimum grade of "C."

EXERCISE SCIENCE – SEE PHYSICAL EDUCATION

FAMILY AND CONSUMER SCIENCE CAREER PATHWAY

(The following does not lead to an Associate in Arts Degree)

CSU, Long Beach offers the Bachelor of Arts degree in Family Consumer Sciences

Options:

- Child Development and Family Studies
- Consumer Affairs
- Family and Consumer Sciences Education
- Family Life Education
- Fashion Merchandising
- Textiles and Clothing
- A Bachelor of Science in Dietetics and Food Administration with options in Food Science, Hospitality Foodservice and Hotel Management, and Nutrition and Dietetics is offered by the Department of Family and Consumer Sciences.

Each option requires specific courses. Students are urged to see a Cerritos College counselor for accurate and complete lower division preparation.

LOWER DIVISION MAJOR PREPARATION**California State University – Long Beach****CHILD DEVELOPMENT & FAMILY STUDIES OPTION**

	UNITS
A&P 120 Introduction to Human Anatomy and Physiology	4
or A&P 150 Introduction to Human Anatomy	(4)
or A&P 200 Human Anatomy	(5)
or A&P 151 Introduction to Human Physiology	(4)
or A&P 201 Human Physiology	(5)
PSYC 101 General Introductory Psychology	3
SOC 101 Introductory Sociology Principles	3
or ANTH 100 Cultural Anthropology	(3)
CD 110 Child Development	3
CDIT 151 Infant and Toddler Development	3
and CDIT 152 Infant and Toddler Programs	3
HO 152 Normal & Therapeutic Nutrition	3

Consumer Affairs Option

ACCT 101 Fundamentals of Accounting I	4
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
PSY 101 General Introductory Psychology	3
SOC 101 Introductory Sociology Principles	3
MATH 112 Elementary Statistics	4
or PSYC 210 Elementary Statistics	(4)

Plus 9 units of CSULB advisor approved electives.**Family and Consumer Sciences Education Option**

CHEM 100 Introductory Chemistry	4
PSYC 101 General Introductory Psychology	3
SOC 101 Introductory Sociology Principles	3
or ANTH 100 Cultural Anthropology	(3)
SPCH 130 Fundamentals of Speaking	3
CD 110 Child Development	3
HO 152 Normal & Therapeutic Nutrition	3
CA 101 Introduction to Food Service, Safety and Sanitation	1

Fashion Design, Manufacturing and Merchandising concentration:

ACCT 101 Fundamentals of Accounting I	4

Family Life Education Option

ANTH 100 Cultural Anthropology	3
or SOC 101 Introductory Sociology Principles	(3)
A&P 120 Introduction to Human Anatomy and Physiology	4
or A&P 151 Introduction to Human Physiology	(4)
or A&P 201 Human Physiology	(5)
PSYC 101 General Introductory Psychology	3
CD 110 Child Development	3
HO 152 Normal and Therapeutic Nutrition	3

Plus 9 units of CSULB advisor approved electives.**Fashion Merchandise Option**

ACCT 101 Fundamentals of Accounting I	4
CHEM 100 Introductory Chemistry	4
or CHEM 111 General Chemistry	(5)
ECON 201 Principles	3

ECON 202 Principles	3
HIST 241 Western Civilization	3
or ART 101 Art History I: Prehistory to Gothic	(3)
CIS 101 Introduction to Computer Information	3
PSYC 101 General Introductory Psychology	3
SOC 101 Introductory Sociology Principles	3
or SOC 201 Social Problems	(3)
or ANTH 100 Cultural Anthropology	(3)
ART 186 Computer Graphics in Art & Design	3

Plus 9 units of CSULB advisor approved electives.**Textiles and Clothing Option**

CHEM 100 Introductory Chemistry	4
or CHEM 111 General Chemistry	(5)
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
HIST 241 Western Civilization	3
or ART 101 Art History I: Prehistory to Gothic	(3)
SOC 101 Introductory Sociology	3
or SOC 201 Social Problems	(3)
or ANTH 100 Cultural Anthropology	(3)
ART 186 Computer Graphics in Art & Design	3

BACHELOR OF SCIENCE IN DIETETICS AND FOOD ADMINISTRATION**Food Science Option**

A&P 151 Introduction to Human Physiology	4
or A&P 201 Human Physiology	(5)
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5
CIS 101 Introduction to Computer Information Systems	3
HO 152 Normal and Therapeutic Nutrition	3
MATH 116 Calculus for Managerial, Biological and Social Sciences	4
MICRO 200 Principles and Applications of Microbiology	5
PHYS 101 General Physics	4
PSYC 101 General Introduction Psychology	3
or SOC 101 Introductory Sociology Principles	(3)
SPCH 100 Fundamentals of Oral Communication	3
or SPCH 120 Fundamental of Interpersonal Communication	(3)

Hospitality Foodservice and Hotel Management Option

A&P 120 Introduction to Human Anatomy and Physiology	4
or A&P 151 Introduction to Human Physiology	(4)
or A&P 201 Human Physiology	(5)
ACCT 101 Fundamentals of Accounting I	4
CA 101 Introduction to Food Service, Safety & Sanitation	1
CHEM 100 Introductory Chemistry	4
or CHEM 111 General Chemistry	(5)
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
HO 152 Normal and Therapeutic Nutrition	3
MATH 112 Elementary Statistics	4
or PSYC 210 Elementary Statistics	(4)
CIS 101 Introduction to Computer Information Systems	3
PHIL 102 Introduction to Ethics	3
PSYC 101 General Introduction Psychology	3
or SOC 101 Introductory Sociology Principles	(3)
SPCH 100 Fundamentals of Oral Communication	3
or SPCH 120 Fundamental of Interpersonal Communication	(3)

Nutrition and Dietetics Option

A&P 151	Introduction to Human Physiology	4
or A&P 201	Human Physiology	(5)
CA 101	Introduction to Food Service, Safety & Sanitation	1
CHEM 111	General Chemistry	5
CIS 101	Introduction to Computer Information Systems	3
ENGL 100	Freshman Composition	4
HO 152	Normal and Therapeutic Nutrition	3
MICRO 200	Principles and Applications of Microbiology	5
PSYC 101	General Introduction Psychology	3
SOC 101	Introductory Sociology Principles	3
SPCH 100	Fundamentals of Oral Communication	3
or SPCH 120	Fundamental of Interpersonal Communication	(3)

CAREER OPPORTUNITIES: After transfer to a four year college or university and completion of the Bachelor's Degree Program, graduates qualify for graduate study and for employment with timber companies, utility companies, U.S. Forest Service, National Park Service, Bureau of Land Management, Environment Protection Agency, and the California Division of Forestry.

See Cerritos College Graduation Requirements.

See California State University General Education List.

FRENCH TRANSFER PROGRAM

FORESTRY TRANSFER PROGRAM

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

UNITS

California State University – Humboldt

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 110	Elementary Chemistry	4
MATH 170	Analytic Geometry and Calculus I	4
or MATH 116	Calculus for Managerial, Biological, and Social Sciences	4

Forestry Hydrology Option:

GEOL 101	The Earth Environment	4
PHYS 101	General Physics	4
or PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
BIOL 105	Man and Environment	3

University of California – Berkeley

BIOL 200	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	3
GEOL 101	The Earth Environment	4
MATH 112	Elementary Statistics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete one of the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

UNITS

California State University – Fullerton

FREN 101	Elementary French	5
FREN 102	Elementary French	5
FREN 201	Intermediate French	5
FREN 202	Intermediate French	4
FREN 203	Intermediate French, Advanced Level I	4

California State University – Los Angeles

FREN 101	Elementary French	5
FREN 102	Elementary French	5
FREN 201	Intermediate French	5
and FREN 201	Intermediate French	4
FREN 281	Beginning Conversational French	3

Students transferring to CSULA are encouraged to take ENGL 103 as their CSU General Education Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State University – Long Beach

FREN 101	Elementary French	5
FREN 102	Elementary French	5
FREN 201	Intermediate French	5
FREN 202	Intermediate French	4
FREN 281	Beginning Conversational French	3

Students who have completed sufficient high school French may take upper-division courses as soon as lower-division requirements have been met.

Two years of a second foreign language at the college level or equivalent is also required.

Departmental Recommendation: Students specializing in French are recommended to include the following courses in their program of study: HIST 241 and HIST 242.

University of California – Irvine

This major does not require completion of prerequisites for admission as a transfer student.

FREN 101	Elementary French	5
and FREN 102	Elementary French	5
FREN 201	Intermediate French	5
and FREN 202	Intermediate French	4

At least one course is required from four different areas (writing, literature, history, and philosophy). An approved list of courses is available on www.assist.org. Please consult a counselor, if necessary, for these additional classes.

University of California – Riverside

FREN 101	Elementary French	5
and FREN 102	Elementary French	5
FREN 201	Intermediate French	5
and FREN 202	Intermediate French	4

NOTE: Students may either take the courses listed above or demonstrate equivalent proficiency (as measured by a placement exam at UCR). Transfer students who have taken a college-level language course cannot take the placement exam and should consult with their advisors. No college-level credit may be duplicated. See college placement examination policy. French Literature and French Civilization options are also available in this major. See a counselor for further clarification.

University of California – Los Angeles

For information regarding preparation for this major, visit www.french.ucla.edu/programs/undergrade_prog.htm. Also, see a counselor for specific information.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

(1) Meet the above requirements as listed for a state university and any electives needed to reach 18 units in the major. (2) complete the AA Degree general education requirements, and (3) take electives to achieve a minimum of 60 units.

CAREER OPPORTUNITIES: Employment with government, international firms, airline hostess, travel agent, librarian, linguistic reporter, teacher, interpreter, translator

See Cerritos College Graduation Requirements.
See State University General Education List.

GEOGRAPHY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

		UNITS
GEOG 101	Physical Geography	3
GEOG 102	Cultural Geography	3

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton

GEOG 105	World Regional Geography	3

California State University – Long Beach

GEOG 105	World Regional Geography	3

California State University – Los Angeles

GEOG 106	Introduction to Geographic Information Systems	3
ENGL 103*	Critical and Argumentative Writing	3

* Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

University of California – Los Angeles

GEOG 102+	Cultural Geography	3
or GEOG 105+	World Regional Geography	(3)
MATH 112+	Elementary Statistics	4

+Recommend major preparation for UCLA.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Employment in business, regional, urban, and environmental planning, government, foreign service, teaching.

See Cerritos College Graduation Requirements.
See State University General Education List.

GEOLOGY TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

		UNITS
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
GEOL 101	Physical Geology	4

ADDITIONAL LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

Earth Science Option:

GEOL 201	Earth History	4
PHYS 101	General Physics	4
and PHYS 102	General Physics	4
or BIOL 200	Principles of Biology	(5)
and BIOL 201	Principles of Biology	(5)

Geology Option:

GEOL 201	Earth History	4
PHYS 101	General Physics	4
and PHYS 102	General Physics	4
or PHYS201	Engineering Physics	(4)
and PHYS202	Engineering Physics	(4)
and PHYS 203	Engineering Physics	(4)
MATH 116	Calculus for Managerial, Biological and Social Sciences	4
and MATH 112	Elementary Statistics	4
or MATH 170	Analytic Geometry and Calculus I	(4)
and MATH 190	Analytic Geometry and Calculus II	(4)

Physical Science Option:

GEOL 201	Earth History	4
MATH 170	Analytical Geometry and Calculus I	4
MATH 190	Analytical Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
and PHYS 202	Engineering Physics	4
and PHYS 203	Engineering Physics	4

California State University – Fullerton (Geological Science)

GEOL 201	Earth History	4
BIOL 120	Introduction to Biological Science	4
or BIOL 200	Principles of Biology	(5)
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
and PHYS 202	Engineering Physics	4
or PHYS 101	General Physics	(4)
and PHYS 102	General Physics	(4)

One additional course (with approval of CSUF advisor):
LOWER DIVISION SELECTION

BIOL 201	Principles of Biology	5
A&P 120	Introduction to Human Anatomy and Physiology	4
MATH 220	Analytical Geometry and Calculus III	4
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

California State University – Long Beach

GEOL101	Physical Geology	4
or ESCI 110	Introduction to Earth Science	(4)
GEOL 201	Earth History	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
BIOL 120	Introduction to Biological Science	4

Additional required course for the various emphases: Petroleum Geology, Geochemistry/Mineralogy-Petrology, Structural Geology/Tectonics.

MATH 220	Analytic Geometry and Calculus III	4

California State University – Los Angeles

ENGL 103	Critical and Argumentative Writing	3

Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

GEOL 201	Earth History	4
MATH 170	Analytic Geometry and Calculus I	4
PHYS 101	General Physics	4
and PHYS 102	General Physics	4

Only courses in the major with a grade of C- or higher are credited toward the major.

California State Polytechnic University – Pomona

MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
BIOL 120	Introduction to Biological Science	4
GEOL 201	Earth History	4

**COMMON LOWER DIVISION PREPARATION
FOR THE UNIVERSITY OF CALIFORNIA**

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5

University of California – Los Angeles

BIOL 200	Principles of Biology	5
CIS 178	Programming in Fortran	3
or CIS 180	Programming in C/C++	(3)
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
MATH 220	Analytic Geometry and Calculus III	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

Geology/Engineering Geology Option

MATH 240	Calculus and Differential Equations	4

Geology/Paleobiology Option

BIOL 201	Principles of Biology	5
BIOL 202	Molecular Biology/Genetics	4
CHEM 211	Organic Chemistry	5
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

University of California – Riverside
General Geology, Geobiology, and Geophysics Options

BIOL 201	Principles of Biology	5
GEOL 101	Physical Geology	4
GEOL 201	Earth History	4
GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography	1
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

Biogeography Option

BIOL 200	Principles of Biology	5
or BOT 120	Introduction to Plant Science	(4)
and ZOOL 120	Introduction to Animal Biology	(4)
BOT 120	Introduction to Plant Science	4
ZOOL 120	Introduction to Animal Biology	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) a combination of geology and other science courses, in consultation with a counselor, equaling 18 units and (2) the Associate in Arts degree general education requirements.

CAREER OPPORTUNITIES: After transfer to a four-year college or university and completion of the Bachelor's Degree program, graduates qualify for graduate study and for professional careers in government or industry and teaching.

See Cerritos College Graduation Requirements.
See State University General Education List.

GERMAN TRANSFER PROGRAM

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton

	UNITS
GERM 101 Elementary German	5
GERM 102 Elementary German	5
GERM 201 Intermediate German	4
GERM 202 Intermediate German	4

California State University – Long Beach

GERM 101 Elementary German	5
GERM 102 Elementary German	5
GERM 201 Intermediate German	4
GERM 202 Intermediate German	4

Students who have completed sufficient high-school German may take upper-division courses at CSULB as soon as lower-division requirements have been met.

University of California – Irvine

This major does not require the completion of certain prerequisites for admission as a transfer student.

GERM 101 Elementary German	5
and GERM 102 Elementary German	5
GERM 201 Intermediate German	4
and GERM 202 Intermediate German	4

At least one course from each of four areas (writing, literature, history, and philosophy) is also required. An approved list of courses is available from www.assist.org. Please consult a counselor, if necessary, for these additional classes.

University of California – Los Angeles

UCLA offers German as a major although no formal articulation exists. Students are recommended to complete two years of college-level German prior to admission.

University of California – Riverside

Completion of the course work listed below is not mandatory for admission into this major. However, students are advised to complete as much lower-division course preparation as possible prior to transfer, to be ready for upper division course work.

Note: Students may either take the courses listed above or demonstrate equivalent proficiency (as measured by a placement exam at UCR). Transfer students who have taken a college-level language course cannot take the placement examination and should consult with their advisors. No college-level credit may be duplicated. See college placement examination policy.

GERM 101 Elementary German	5
and GERM 102 Elementary German	5
GERM 201 Intermediate German	4
and GERM 202 Intermediate German	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

(1) Meet the above requirements as listed for a state university, (2) complete the AA Degree general education requirements, and (3) take electives to achieve the minimum of 60 units.

CAREER OPPORTUNITIES: Employment with U.S. or international agencies or with international business firms, airline hostess, travel agency personnel, librarian, linguistic reporter, teacher, interpreter, translator.

See Cerritos College Graduation Requirements.
See State University General Education List.

HISTORY TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

	UNITS
HIST 102 Political & Social History of the United States: 1500's to 1876	3
HIST 103 Political & Social History of the United States: 1877 to Present	3

ADDITIONAL LOWER DIVISION REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

HIST 245 World Civilization from Antiquity to 1500	3
HIST 246 World Civilization from 1500 to Present	3
HIST 102 and 103 are not required.	

California State University – Fullerton

HIST 102 Political and Social History of the United States: 1500's to 1876	3
and HIST 103 Political and Social History of the United States: 1877 to Present	3
or HIST 102 Political and Social History of the United States: 1500's to 1876	3
and HIST 101 American History and Constitution	3
HIST 245 World Civilization from Antiquity to 1500	3

California State University – Los Angeles

ENGL 103	Critical and Argumentative Writing	3
HIST 102	Political and Social History of the United States: 1500's to 1876	3
and HIST 103	Political and Social History of the United States: 1877 to Present	3
HIST 245	World Civilization from Antiquity to 1500	3
and HIST 246	World Civilization from 1500 to Present	3

History majors are urged to develop competence in at least one foreign language.

California State University – Long Beach

HIST 102	Political and Social History of the United States: 1500's to 1876	3
HIST 103	Political and Social History of the United States: 1877 to Present	3
HIST 241	Western Civilization	3
HIST 242	Western Civilization	3
HIST 245	World Civilization from Antiquity to 1500	3
HIST 246	World Civilization from 1500 to Present	3

University of California – Irvine

HIST 102	Political and Social History of the United States: 1500's to 1876	3
and HIST 103	Political and Social History of the United States: 1877 to Present	3
or HIST 241	Western Civilization	3
and HIST 242	Western Civilization	3
or HIST 260	Survey of the History of Asia	3
and HIST 265	Selected Problems in Contemporary Asian History	3
PHIL 100	Introduction to Philosophy	3
or PHIL 102	Introduction to Ethics	3
or PHIL 201	Introduction to 20th Century Philosophy	(3)

Up to three additional UC transferable history courses.

Two years of a language other than English

One literature course selected from ENGL 230A, 230B, 232, 233, 235, 246A, 246B, 248A, or 248B.

One History course selected from HIST 241, 242, 245 or 246.

One Philosophy course selected from Philosophy 100, 102 or 201.

University of California – Los Angeles

HIST 241	Western Civilization	3
or HIST 242	Western Civilization	3
or HIST 245	World Civilization from Antiquity to 1500	3
or HIST 246	World Civilization from 1500 to Present	3

Two (2) courses from

HIST 101	American History and Constitution	3
HIST 110	African-American History	3
HIST 120	History of California	3
HIST 102	Political and Social History of the United States: 1500's to 1876	3
HIST 204	Women in American History	3
HIST 103	Political and Social History of the United States: 1877 to Present	3
or HIST 210	History of the United States in the Post World War II Era	3
HIST 220	History of the Americas	3

HIST 221	History of the Americas	3
HIST 230	History of Mexico	3
HIST 235	History of Latin America	3
HIST 250	History of England, Great Britain and the Commonwealth	3
HIST 255	History of Russia and the Soviet Union	3
HIST 260	Survey of the History of Asia	3
HIST 265	Selected Problems in Contemporary Asian History	3

University of California – Riverside

HIST 245	World Civilization from Antiquity to 1500	3
or HIST 246	Western Civilization	(3)

One additional UC Transferable history course. HIST 102 and HIST 103 is recommended for students who choose the U.S. as their area of concentration.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Teaching, law, government, and other public services.

See Cerritos College Graduation Requirements.

See State University General Education List.

INDUSTRIAL ARTS EDUCATION TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION

California State University – Los Angeles

		UNITS
AUTO 100	Automotive Maintenance and Operation	4
EL 110	Principles of DC Electronics ³	
EL 110L	DC Electronics Laboratory ¹	
ENGT 131	Fundamentals of Design including AutoCAD	3
ENGT 257	AutoDesk Inventor ⁴	
ENGT 258	Design and Production Technology with AutoCAD	4
MTT 100	Machine Tool Introduction	2
or WELD 100	Welding Fundamentals	(2.5)
PHOT 100	Introductory Photography	3
WMT 101	Introduction to Woodworking	2

California State University – Los Angeles Requirement:

ENGL 103	Critical and Argumentative Writing	3

State Universities that offer majors in Industrial Arts, Technology, and Vocational Education are California State University - Long Beach, Los Angeles, Chico, Fresno, Humboldt, San Diego, San Francisco, San Jose, and San Luis Obispo.

Students wishing to teach in Vocational Education at the Community College, Adult School, ROP, and ROC should consult a counselor for further information.

CSULA offers a BS in Industrial Technology with a choice of two options: Aviation Management or Production Technology. See counseling for more information.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include, (1) Select 18 units from the common lower division preparation, (2) the Associate in Arts Degree requirements.

CAREER OPPORTUNITIES: After transfer, completion of the Bachelor's Degree Program and receiving a Teaching Credential, graduates are prepared for teaching positions in Industrial Education through High School.

See Cerritos College Graduation Requirements.
See State University General Education List.

INDUSTRIAL TECHNOLOGY - CONSTRUCTION OPTION TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

		UNITS
ARCH 111	Architectural Drafting and Design I	3
ECON 201	Principles of Macroeconomics	3
MATH 150	Pre-Calculus Mathematics	4
PHIL 106	Introduction to Logic	3
PHYS 101	General Physics	4
PHYS 102	General Physics	4

ADDITIONAL LOWER DIVISION REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Long Beach (Construction Engineering Management)

ACCT 101	Fundamentals of Accounting I	4
or ACCT 240	Cost Accounting	(4)
CIS 101	Introduction to Computer and Information Systems	3
ENGT 237	Graphical Statics and Strength of Materials	3
or ENGR 235	Statics	(3)
MATH 112	Elementary Statistics	4
MATH 170	Calculus I	4

California State University – Northridge (Construction Management Technology)

ACCT 101	Fundamentals of Accounting	4
CIS 101	Introduction to CIS	3
ECON 202	Microeconomics	3
GEOL 101	The Earth Environment	4
LAW 111	Business Law	3
MATH 114	College Algebra	4
MATH 170	Calculus I	4
MATH 190	Calculus II	4

California State Polytechnic University – Pomona (Construction Management Technology)

ARCH 121	Architectural Drafting and Design II	3
CHEM 111	General Chemistry	5
ENGR 235	Statics	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) Common Lower Division Preparation, (2) electives as needed, and (3) the Associate in Arts Degree requirements.

CAREER OPPORTUNITIES: Construction Engineering Technology (CET) graduates work with owners, developers, architects, engineers, (civil, mechanical, and electrical), building departments, governmental agencies, contractors, and subcontractors to implement a variety of construction projects. Job titles include field engineer, project engineer, superintendent, as well as estimator, scheduler, and project manager.

See Cerritos College Graduation Requirements.
See State University General Education List.

INDUSTRIAL TECHNOLOGY-ELECTRONICS OPTION TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY (ENGINEERING TECHNOLOGY)

		UNITS
ECON 201	Macroeconomics	3
EL 110	Principles of DC Electronics	4
EL 110L	DC Electronics Laboratory	1
EL 120	Principles of AC Electronics	4
EL 120L	AC Electronics Laboratory	1
EL 134	Digital Circuits and Computer Logic	3
EL 134L	Digital Circuits and Computer Logic Laboratory	1
MATH 150	Precalculus Mathematics	4
PHIL 106	Introduction to Logic	3
PHYS 101	General Physics	4
PHYS 102	General Physics	4

ADDITIONAL LOWER DIVISION REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Long Beach

CIS 101	Introduction to Computer Information Systems	3
CIS 280	Object-Oriented Programming in C++	3
EL 200	Semi-Conductor Electronics	3
EL 200L	Semi-Conductor Electronics Laboratory	1
ENGT 131	Fundamentals of Design Including AutoCAD	3
MATH 112	Elementary Statistics	4
MATH 170	Calculus I	4

California State Polytechnic University – Pomona

CHEM 111	General Chemistry	5
CIS 230	Assembly Programming for Microcomputers	4
ENGR 235	Statics	3

Other California State Universities that offer the Bachelor's Degree: Chico, Fresno, San Jose, San Luis Obispo, and Sacramento. Consult catalogs of specific institutions for requirements.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include, (1) Common Lower Division Preparation, (2) electives as needed, and (3) the Associate in Arts Degree requirements.

CAREER OPPORTUNITIES: The Electronics Option prepares the student for a position as a technologist, in such industries as aerospace, computers, communications, biomedical, chemical, power, etc. Students are offered a wide range of training in topics such as instrumentation, controls, microprocessors, microelectronics, biomedical electronics, communications, motors and generators, robotics, computer applications, programming and interfacing.

The Computer Option prepares graduates to pursue careers related to manufacturing, integration, and support of computer systems. Emphasis is placed on specific job skills required of entry level professionals in computer industry, including systems analysis and design, data administration, networking, data communications, data acquisition, oral and written communication, and management principles. The Computer Option is available to students interested in the manufacturing of computers and the applications and operations aspects of computer hardware and software.

See Cerritos College Graduation Requirements.
See State University General Education List.

INDUSTRIAL TECHNOLOGY – MANUFACTURING OPTION TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY (ENGINEERING TECHNOLOGY)

		UNITS
CHEM 111	General Chemistry	5
ECON 201	Macroeconomics	3
ENGT 131	Fundamentals of Drafting Including AutoCAD	3
MATH 150	Pre-Calculus Mathematics	4
PHIL 106	Introduction Logic	3
PHYS 101	General Physics	4
PHYS 102	General Physics	4

ADDITIONAL LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Long Beach

CIS 101	Introduction to Computer Information Systems	3
ENGT 138	AutoCAD	4
ENGT 153	Machine Design with AutoCAD	3
ENGT 237	Graphical Statics and Strength of Materials	3
or ENGR 235	Statics	(3)
ENGT 258	Design and Production Technology with AutoCAD	4
LAW 111	Business Law	3
MTT 100	Machine Tool Introduction	2
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

California State Polytechnic University – Pomona (GENERAL)

WELD 100	Welding Fundamentals	2.5

Other California State University and Colleges that offer the Bachelor's Degree: Chico, Fresno, San Jose, San Luis Obispo, and Sacramento. Consult catalogs of specific institutions for requirements.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) Common Lower Division Preparation, (2) electives as needed, and (3) the Associate in Arts Degree requirements.

CAREER OPPORTUNITIES: Graduates of the program will be employed in the manufacturing engineering, production, production control, procurement and materials management departments of both large and small companies in all areas of the manufacturing industry.

See Cerritos College Graduation Requirements.
See State University General Education List.

INDUSTRIAL TECHNOLOGY – QUALITY ASSURANCE CAREER PATHWAY

(The following curriculum does not lead to an Associate in Arts Degree)

The following program of study has been designed to prepare students for transfer to California State University, Long Beach – Engineering Technology.

		UNITS
CIS 101	Introduction to Computer Information Systems	3
CHEM 111	General Chemistry	5
ECON 201	Principles of Macroeconomics	3
ENGT 131	Fundamentals of Design Including AutoCAD	3
ENGT 237	Graphical Statics and Strength of Materials	3
or ENGR 235	Statics	(3)
LAW 111	Business Law	3
MATH 112	Elementary Statistics	4
MATH 150	Pre-Calculus Mathematics	4
PHIL 106	Introduction to Logic	3
PHYS 101	General Physics	4
PHYS 102	General Physics	4

Quality Control Courses

MTT 100	Machine Tool Introduction	2

CAREER OPPORTUNITIES: Graduates of the program will find jobs in quality engineering, quality assurance, product assurance, supplier assurance, configuration and data management, procurement, software quality assurance, production, operations, materials management, and industrial engineering departments of both large and small companies in all areas of the manufacturing industry and service industry.

See Cerritos College Graduation Requirements.
See State University General Education List.

INDUSTRIAL TECHNOLOGY – AUTOMATED MANUFACTURING CERTIFICATE OF ACHIEVEMENT

	UNITS
MTT 100 Machine Tool Introduction	2
MTT 170 Computer Numerical Control Programming	2.5
PMT 66 Hydraulics and Pneumatics	3
EL 110 Principles of DC Electronics	3
EL 110L DC Electronics Laboratory	1
TOTAL UNITS	11.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete 60 units to include (1) the Certificate of Achievement requirements, (2) ENGT 138, (3) the Associate in Arts Degree general education requirements, and (4) electives as needed.

RECOMMENDED ELECTIVES: PHYS 101

INTERNATIONAL STUDIES PROGRAM

GLOBAL STUDIES ASSOCIATE IN ARTS DEGREE PROGRAM

CORE REQUIREMENTS (15 UNITS)	UNITS
ANTH 100 Cultural Anthropology	3
ECON 201 Principles of Macroeconomics	3
GEOG 105 World Regional Geography	3
HIST 275 Global Studies	3
POL 210 International Relations	3

Division Requirements – Choose one option (9 units)

Political-Economic Option – Select three courses

ECON 102 Women in the Global Economy	3
HIST 246 World Civilization	3
POL 202 Comparative Government	3
POL 230 Contemporary Political Issues: Middle East	3
BA 101 International Business	3

Socio-Cultural Option: Select three courses

PHIL 200 World Religions	3
HUM 100 The Art of Being Human	3
ANTH 170 Introduction to Language and Culture	3
SOC 215 Sociology of Cultural Diversity	3
SPCH 110 Intercultural Communication	3

NOTE: One year of Foreign Language study is recommended

GLOBAL STUDIES CERTIFICATE OF ACHIEVEMENT

CORE REQUIREMENTS	(15 UNITS)
DIVISION OPTION REQUIREMENTS (SELECT 1)	9 UNITS
TOTAL CERTIFICATE UNITS	24

GLOBAL RESOURCES CERTIFICATE OF ACHIEVEMENT

CORE REQUIREMENTS (CERTIFICATE OF COMPLETION)	UNITS
GEOG 105 World Regional Geography	3
POL 210 International Relations	3
BA 101 International Business	3

AND ONE OF THE FOLLOWING

PHIL 200 World Religions	3
ANTH 100 Cultural Anthropology	3

Division Requirements

ENGL 106 Introduction to Language Study	3
ESCI 101 Physical Ecology	3

SELECT 6 UNITS FROM THE FOLLOWING:

GEOG 101 Physical Geography	3
GEOG 102 Natural and Cultural Geography	3
GEOL 101 Physical Geology	3
GEOL 110 Introduction to Geology	3
ESCI 102 Physical Ecology Field Laboratory	1
ESCI 104 Oceanography	3

TOTAL CERTIFICATE REQUIREMENTS	24

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Global Resources and complete electives and general education requirements to achieve a minimum of 60 units.

INTERPRETING/TRANSLATING CERTIFICATE OF ACHIEVEMENT

CORE REQUIREMENTS (CERTIFICATE OF COMPLETION)	UNITS
GEOG 105 World Regional Geography	3
POL 210 International Relations	3
BA 101 International Business	3

AND ONE OF THE FOLLOWING:

PHIL 200 World Religions	3
ANTH 100 Cultural Anthropology	3

Division Requirements

ENGL 106 Introduction to Language Study	3

AND ONE OF THE FOLLOWING OPTIONS:

SPAN 282	Intermediate Conversational Spanish	3
SPAN 283	Advanced Conversational Spanish	3
FREN 202	Intermediate French	4
FREN 203	Intermediate French Advanced Level I	4
GERM 203	Scientific German	4
GERM 204	Scientific German	4
JAPN 102	Elementary Japanese	5
JAPN 201	Intermediate Japanese	5
SPAN 201	Intermediate Spanish	5
AND SPAN 202	Intermediate Spanish	4
or SPAN 112	Elementary Spanish for Spanish Speakers	(5)
and SPAN 202	Intermediate Spanish	4
or SPAN 213	Living Spanish Grammar and Written Communication	(2)
SPAN 214	Living Spanish Grammar and Written Communication	(2)
and SPAN 202	Intermediate Spanish	4
TOTAL CERTIFICATE REQUIREMENTS:		24

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Interpreting/Translating and complete electives and general education requirements to achieve a minimum of 60 units.

CONTEMPORARY WORLD CULTURES CERTIFICATE OF ACHIEVEMENT

CORE REQUIREMENTS

GEOG 105	World Regional Geography	3
PHIL 104	Philosophy of Cultural Diversity: Challenge and Change	3
ANTH 100	Cultural Anthropology	3
SPCH 110	Intercultural Communication	3
SOC 215	Sociology of Cultural Diversity: Challenge and Changes	3

ANY ONE OF THE FOLLOWING:

HIST 246	World Civilization from 1500 to Present	3
POL 210	International Relations	3
PHIL 200	World Religions	3
TOTAL CERTIFICATE REQUIREMENTS		18

NOTE: Second Language Coursework is recommended.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Meet the requirements for a Certificate of Achievement in World Cultures and complete electives and general education requirements to achieve a minimum of 60 units.

JOURNALISM

ASSOCIATE IN ARTS DEGREE PROGRAM

TOTAL OF 29 UNITS

CORE REQUIREMENTS (9 UNITS)

JOUR 100	Mass Communication and Society	3
JOUR 101	Beginning Newswriting and Reporting	3
JOUR 121	Multimedia Reporting	3

Department Requirements

(6 units, any combinations each course may be taken twice)

JOUR 103	Newspaper Article Writing	2 (4)
JOUR 105	Newspaper Production	2 (4)
JOUR 106	talonmarks.com	1 (2)
JOUR 160L	College Magazine Production	1 (2)

Additional Requirements (14 units)

ART 188	Design for Desktop Publishing	3
ART 194	Multimedia Design	3
ART 196	Introduction to Designing Web Graphics	3
CIS 205	Programming to HTML for the World Wide Web	1.5
JOUR 110	Broadcast News/Webcasting	1
or RTV 110	Broadcast News/Webcasting	(1)
JOUR 111	Introduction to Newsletters	1
JOUR 112	Copy Editing Skills	1
JOUR 121	Multimedia Storytelling (second completion)	3
JOUR 122	Creating Podcasts for Media	1
JOUR 130	Photo Journalism	3
or PHOT 130	Photo Journalism	(3)
JOUR 157	Principles of Public Relations	3
or BA 157	Principles of Public Relations	(3)
JOUR 170	Broadcast News/Webcasting	1
or RTV 170	Broadcast News/Webcasting	(1)
JOUR 201	Advanced Reporting and Editing	3
JOUR 220	Feature Article Writing	3
JOUR 298	Directed Studies in Journalism (may be applied twice)	1 (2)
or JOUR 50L	Editorial Board (may be applied twice)	(1) (2)
JOUR 299	Directed Studies in Journalism (must be a media internship)	2
or JOUR 170	Work Experience in Journalism (must be in media internship)	
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Images	3
SPCH 160	Parliamentary Procedure	1

NOTE: Journalism students intending to transfer to a four-year college are referred to the Transfer Journalism Program of Study 145.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete a minimum of 60 units to include (1) the above Journalism courses and unit requirements, (2) AA Degree General Education Requirements, and (3) electives as needed.

CERTIFICATE OF ACHIEVEMENT**TOTAL OF 38 UNITS****CORE REQUIREMENTS: (9 UNITS)**

		UNITS
JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning Newswriting and Reporting	3
JOUR 121	Multimedia Reporting	3

Department Requirements**(8 units, any combinations each course may be taken twice)**

JOUR 50L	Editorial Board	1 (2)
JOUR 103	Newspaper Article Writing	2 (4)
JOUR 105	Newspaper Production	2 (4)
JOUR 106	talonmarks.com	1 (2)
JOUR 160L	College Magazine Production (Corequisite required)	1 (2)

Additional requirements (21 units)

ART 188	Design for Desktop Publishing	3
ART 194	Multimedia Design	3
ART 196	Introduction to Designing Web Graphics	3
CIS 205	Programming to HTML for the World Wide Web	1.5
JOUR 50L	Editorial Board (second or third completion)	1
JOUR 103	Newspaper Article Writing (third completion)	2
JOUR 105	Newspaper Production (third completion)	2
JOUR 106	talonmarks.com (second or third completion)	1
JOUR 110	Broadcast News	1
or RTV 110	Broadcast News	(1)
JOUR 111	Introduction to Newsletters	1
JOUR 112	Copy Editing Skills	1
JOUR 121	Multimedia Reporting (second completion)	3
JOUR 122	Creating Podcasts for Media	1
JOUR 130	Photo Journalism	3
or PHOT 130	Photo Journalism	(3)
JOUR 157	Principles of Public Relations	3
or BA 157	Principles of Public Relations	(3)
JOUR 170	Broadcast News/Webcasting	1
or RTV 170	Broadcast News/Webcasting	(1)
JOUR 201	Advanced Reporting and Editing	3
JOUR 220	Feature Article Writing	3
JOUR 298	Directed Studies in Journalism (may be applied twice)	1 (2)
or JOUR 50L	Editorial Board (may be applied twice)	(1) (2)
JOUR 299	Directed Studies (must be a media internship)	2
or JOUR 170	Work Experience (must be a media internship)	(2)
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Images	3
SPCH 160	Parliamentary Procedure	1

BROADCAST JOURNALISM**VERIFICATION OF COMPLETION**

The verification helps the student focus on the study of and preparation for entry level employment in the growing field of broadcast news at radio stations and television stations, and in online journalism ventures.

This certificate is one part of a two-part verification combination that prepares the student for an associate degree in Broadcast Media. (See Verification of Completion Radio-TV Announcing)

Broadcast Journalism Certificate Requirements—11

JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning Newswriting and Reporting	3
JOUR 112	Copy Editing Skills	1
JOUR 170	Broadcast News	1

Plus three units of the following:

JOUR 120	Internet for Journalists	2
JOUR 170	Broadcast News	1*
SPCH 100	Fundamentals of Oral Communication	3
SPCH 140	Oral Interpretation of Literature	3
SPCH 240	Oral Interpretation – Reader's Theater	3
TH 108	Improvisation for Theater	3
TH 117	Stand-Up Comedy	3
TOTAL		11

*May be taken a maximum of 2 times may be applied.

**RADIO/TELEVISION BROADCAST ANNOUNCING
VERIFICATION OF COMPLETION**

This verification helps the student focus on the study of and preparation for entry level employment in the field of broadcast announcing at radio and television stations, and in online broadcast ventures. This is one of two-part verification combination that will begin to prepare the student for an Associate Arts in degree Broadcast Media. (See JOUR 141 – Broadcast Journalism)

Radio/Television Broadcast Announcing**14.5 UNITS**

RTV 152	Introduction to Broadcasting	3
RTV 155	Radio Production	3
TH 156	Television Production	2.5
JOUR 122	Creating Podcasts for Media	1
JOUR 170	Broadcast News/Webcasting	1
or RTV 170	Broadcast News/Webcasting	(1)
SPCH 271	Voice and Articulation	3
RTV 298	Directed Studies in Radio-TV*	1
or RTV 171	Occupational Work Experience in Radio-TV*	(1)

*Should be a broadcasting-related internship

ONLINE JOURNALISM**VERIFICATION OF COMPLETION**

The verification helps the student focus on the study of and preparation for entry level employment in the growing field of online journalism. The verification should be particularly helpful to those who will be helping small publications start online news ventures.

Online Journalism Verification Requirements - 17

JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning Newswriting	3
JOUR 120	Internet for Journalists	2
PHOT 110	Introduction to Digital Imaging	3
or ART 192	Photoshop/Digital Imaging	3
Plus one unit from the following:		
JOUR 298	Directed Studies	1
or JOUR 50L	Editorial Board	1

Plus two units from the following:

JOUR 103	Newspaper Article Writing	2
or JOUR 105	Newspaper Production	2

And three units from the following:

ART 196	Introduction to Designing Web Graphics	3
CIS 205	Programming in HTML for the World Wide Web	1.5
CIS 120	Web Design with Microsoft Front Page	1.5
PHOT 112	Intermediate Digital Photography	3

PHOTOJOURNALISM
VERIFICATION OF COMPLETION

The verification helps the student focus on the study of and preparation for entry level employment in the field of photojournalism. The verification should be particularly helpful to those looking for employment at newspapers, magazines, corporate and government public relations departments and online journalism ventures.

PhotoJournalism Verification Requirements - 17

JOUR 130	Photo Journalism	3
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Photography	3

Plus three units of the following:

BA 100	Fundamentals of Business	3
or ACCT 100	Introduction to Accounting	3

Plus five units from the following:

JOUR 105	Newspaper Production (can be repeated)	2*
JOUR 160L	Magazine Production (can be repeated)	1**
JOUR 298	Directed Studies (maximum 1 unit)	1
JOUR 299	Directed Studies (internship-maximum 2 units)	2
BA 110	Advertising	3

*May be repeated; a maximum of four units may be applied

**May be repeated; a maximum of two units may be applied

OCCUPATIONAL PREPAREDNESS IN DESKTOP
PUBLISHING/JOURNALISM
VERIFICATION OF COMPLETION

This verification will provide the student with the entry-level skills needed to write and prepare for printing such widely produced documents and newsletters, brochures, and news releases. These skills are applicable in a wide variety of business environments.

FINE ART DESKTOP PUBLISHING/JOURNALISM
VERIFICATION REQUIREMENTS – 14 UNITS
Select 11 units from the following:

		UNITS
ART 188	Design for Desktop Publishing	3
ART 192	Photoshop/Digital Imaging	3
JOUR 101	Beginning Newswriting and Reporting	3
JOUR 105	Newspaper Production	2

Plus one course from the following:

JOUR 103	Newspaper Article Writing	2
PHOT/JOUR 103	Photo Journalism	3
ART 182A	Lettering & Typography	3
ART 186	Computer Graphics and Adobe Illustrator	3
BA 110	Advertising	3
JOUR 157	Principles of Public Relations	3
or BA 157	Principles of Public Relations	(3)

PUBLIC RELATIONS
CERTIFICATE OF ACHIEVEMENT
TOTAL OF 38 UNITS
CORE REQUIREMENTS (12 UNITS)

JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning Newswriting and Reporting	3
JOUR 121	Multimedia Reporting	3
JOUR 157	Principles of Public Relations	3
or BA 157	Principles of Public Relations	(3)

DEPARTMENT REQUIREMENTS
(21 UNITS ANY COMBINATION, EACH COURSE MAY BE TAKEN TWICE)

JOUR 103	Newspaper Article writing	2
JOUR 105	Newspaper Production	2
JOUR 106	talonmarks.com	1
JOUR 160L	College Magazine Production (requires co-requisite)	1
RTV 155	Radio Production	3
ART 188	Design for Desktop Publishing	3
BA 109	Marketing	3
JOUR 130	Photo Journalism	3
or PHOT 130	Photo Journalism	(3)
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to digital Photography	3

ADDITIONAL REQUIREMENTS (UP TO 5 UNITS)

ART 194	Multimedia Design	3
ART 196	Introduction to Designing Web Graphics	3
JOUR 110	Broadcast News/Webcasting	1
or RTV 110	Broadcast News/Webcasting	(1)
JOUR 111	Introduction to Newsletters	1
JOUR 112	Copy Editing Skills	1
JOUR 122	Creating Podcasts for Media	1
JOUR 201	Advanced Reporting and Editing	3
JOUR 220	Feature Article Writing	3
JOUR 298	Directed Studies in Journalism	1
JOUR 299	Directed Studies in Journalism (must be a media internship)	2
or JOUR 171	Work Experience in Journalism (must be a media internship)	
SPCH 160	Parliamentary Procedure	1

See Cerritos College Graduation Requirements.

CAREER OPPORTUNITIES: The AA Degree, the Certificate in Public Relations, and the Certificate in Journalism by themselves, or with other education and degrees as appropriate, may directly or indirectly enhance employment potential in a broad job spectrum where media communications and related analytical skills are desirable. These include writer/reporter/editor for both print and broadcast/electronic journalism media (newspaper, magazine, radio, TV, etc.), corporate communications and public relations, public information and publicity, business and industrial journalism, newsletter writer and publisher, freelance writer, photographer, advertising copywriter and salesperson, journalism teacher and student publications adviser, non-fiction book and article writer, editorial and publications services consultant, and myriad other publishing and related areas.

JOURNALISM TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

		UNITS
JOUR 100	Introduction to Mass Communications	3
JOUR 101	Beginning News Writing and Reporting	3

ADDITIONAL LOWER DIVISION PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton

Journalism Concentration, Communications Major

JOUR 201	Advanced Reporting and Editing	3
TH 241	Screenwriting	3

Other Communication major concentrations are: Advertising; Broadcast Journalism; Entertainment Studies; Photo-Communications; Public Relations.

Please note that double counting of Journalism courses for general education is not permitted.

California State University – Long Beach

Note: All students entering journalism production classes at CSULB must be familiar with at least one established word-processing program, and be able to type at a rate of at least 40 words per minute.

California State Polytechnic University – Pomona

Communication Journalism

JOUR 130	Photo Journalism	3
ART 188	Design for Desktop Publishing	3
PHOT 100	Introductory Photography	3
SPCH 235	Fundamentals of Argumentation and Persuasion	3
MATH 112	Elementary Statistics	3

NOTE: Pomona does not require Journalism 101 for the Journalism major.

San Diego State University

ECON 201	Principles of Macroeconomics	3
POL 101	American Political Institutions	3
POL 201	Introduction to Political Science and American Government	3

NOTE: All prerequisites must be taken for a grade and completed with a minimum GPA. Journalism is an impacted major and will require a personal statement, two letters of recommendation and a cumulative GPA of 3.00 or higher. For additional information see a counselor.

THE UNIVERSITY OF CALIFORNIA

There is no Journalism major at any campus of the University of California.

NOTE: The ability to word process and use the Internet are prerequisites for all students majoring in Journalism. See the Fine Arts Counselor for lower division preparation for other California State University Broadcast Journalism programs.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete a minimum of 60 units to include: (1) the above required courses plus electives in Journalism and Photography for a minimum of 18 units, (2) AA Degree general education requirements and (3) electives as needed.

See Cerritos College Graduation Requirements.

See State University General Education List.

KINESIOLOGY TRANSFER PROGRAM (SEE PHYSICAL EDUCATION)

MACHINE TOOL TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

MACHINIST OPTION

MTT 4L	Manual Machining Laboratory	3
MTT 50	CNC Shop Math	3
MTT 52	Setup and Operation of CNC Mills	3
MTT 54	Blueprint Reading	2.5
MTT 55	Supplemental Machine Shop Studies	2
MTT 56	CNC Shop Inspection	2
MTT 57	Setup and Operation of CNC Lathes	3
MTT 60	Advanced Machine Tool Concepts	2
MTT 62	Fixture Tooling	2
MTT 100	Machine Tool Introduction	2

TOTAL UNITS 24.5

NUMERICAL CONTROL MACHINE OPERATOR OPTION

MTT 1L	Numerical Control Specialty	4
MTT 50	CNC Shop Math	3
MTT 52	Setup and Operation of CNC Mills	3
MTT 54	Blueprint Reading	2.5
MTT 56	CNC Shop Inspection	2
MTT 57	Setup and Operation of CNC Lathes	3
MTT 100	Machine Tool Introduction	2
MTT 154	CNC Program Optimization	2
MTT 170	Computer Numerical Control Programming	2.5

TOTAL UNITS 24

NUMERICAL CONTROL TOOL PROGRAMMER OPTION

MTT 50	CNC Shop Math	3
MTT 52	Setup and Operation of CNC Mills	3
MTT 54	Blueprint Reading	2.5
MTT 56	CNC Shop Inspection	2
MTT 57	Setup and Operation of CNC Lathes	3
MTT 100	Machine Tool Instruction	2
MTT 154	CNC Program Optimization	2
MTT 76	CAD/CAM Virtual Gibbs	2.5
and MTT 177	Advanced GibbsCAM/CAD/CAM	2.5
and MTT 1L	Numerical Control Specialty	4
or MTT 51	CAD/CAM Introduction	(3.5)
and MTT 278	CAD/CAM Advanced	(3.5)
and MTT 1L	Numerical Control Specialty	(3)
MTT 170	Computer Numerical Control Programming	2.5
TOAL UNITS (29.5)		28.5

TOOL AND DIE MAKER OPTION

MTT 4L	Manual Machining Lab	3
MTT 50	CNC Shop Math	3
MTT 54	Blueprint Reading	2.5
MTT 55	Supplemental Machine Shop Studies	2
MTT 56	CNC Shop Inspection	2
MTT 60	Advanced Machine Tool Concepts	2
MTT 62	Fixture Tooling	2
MTT 100	Machine Tool Introduction	2
ENGT 131	Fundamentals of Design Including AutoCad	3
WELD 100	Welding Fundamentals	2.5
TOTAL UNITS		24

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the above requirements for a Certificate of Achievement, (2) two courses from the following: MTT 70, MTT 71, PMT 65, ENGT 138; (3) the AA Degree requirements, and (4) electives as needed.

RECOMMENDED ELECTIVES: MFGT 100, MTT 1L.

CAREER OPPORTUNITIES: CNC Parts Programmer, CNC Machine Tool Operator.

See Cerritos College Graduation Requirements.

MANUFACTURING TECHNOLOGY (MFGT) VERIFICATION OF COMPLETION REQUIREMENTS

The four and a half to six units for the specialty may come from the units completed toward the degree or from additional courses outlined below. Students with previous coursework may also be considered for certificates upon providing transcripts for review through the matriculation process.

QUALITY ASSURANCE (QA)

MFGT 60	Quality Assurance (QA)	1.5
MFGT 55	Quality Control (QC)	1.5
MFGT 57	Total Quality Management (TQM)	1.5
		4.5

QUALITY CONTROL (QC)

MFGT 55	Quality Control (QC)	1.5
MFGT 53	Statistical Process Control (SPC)	1.5
		3.0

STATISTICAL PROCESS CONTROL (SPC)

MFGT 55	Quality Control (QC)	1.5
MFGT 53	Statistical Process Control (SPC)	1.5
TM 50	Technical Math	3.0
		5.5

TOTAL QUALITY MANAGEMENT (TQM)

MFGT 57	Total Quality Management (TQM)	1.5
MFGT 60	Quality Assurance (QA)	1.5
MFGT 59	Design of Experiments (DOE)	1.5
MFGT 58	Benchmarking	1.5
		6.0

ISO 9000

MFGT 60	Quality Assurance (QA)	1.5
MFGT 55	Quality Control (QC)	1.5
MFGT 56	ISO 9000:2000	1.5
		4.5

ADVANCED QUALITY SYSTEMS (AQS)

MFGT 57	Total Quality Management (TQM)	1.5
MFGT 53	Statistical Process Control (SPC)	1.5
MFGT 58	Benchmarking	1.5
MFGT 59	Design of Experiments (DOE)	1.5
		6.0

MATHEMATICS TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

		UNITS
MATH 150	PreCalculus Mathematics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
MATH 220	Analytical Geometry and Calculus III	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University — Dominguez Hills

PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	3
PHS 203	Engineering Physics	3

MATH EDUCATION OPTION

MATH 112	Elementary Statistics	4
CIS 171	Visual Basic programming	3

California State University — Fullerton

CIS 178	Programming in Fortran	3
MATH 240	Calculus and Differential Equations	4

See a counselor for major concentrations. The coursework for a concentration is all upper division. Each student is required to complete one of the following concentrations: Pure Mathematics, Applied Mathematics, Probability & Statistics or Teaching Mathematics.

Each student is also required to select one of the following cognates: Actuarial, Computer Science, Economics, Information Systems & Decision Science, Physics, Chemistry, Civil Engineering, Mathematics, or Research.

COMPUTER SCIENCE COGNATE

CIS 292	Data Structures	3,5
CIS 214	UNIX	3

ECONOMICS COGNATE

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3

PHYSICS/ENGINEERING COGNATE

PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHS 203	Engineering Physics	4

CHEMISTRY COGNATE

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5

CIVIL ENGINEERING COGNATE

ENGR 235	Statics	3

California State University — Long Beach

CIS 280	Object-Oriented Programming in C++	3
PHYS 201	Engineering Physics	4

APPLIED MATHEMATICS OPTION

Complete the requirements listed above and follow sub-option I (science and engineering) PHYS 202, 203 or Engineering 215 or 235 or sub-option II (economics and management) Econ 201 and 202.

MATHEMATICS EDUCATION OPTION

One of the following sequences is required: PHYS 201 and PHYS 202 or PHIL 106 and lower division Symbolic Logic (PHIL 270 at CSULB) or eight units of a foreign language.

California State University — Los Angeles

MATH 240	Calculus and Differential Equations	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

Beside the BS in Mathematics, CSULA also offers the B.A. in Mathematics which requires Physics 201 and a minimum of 8 units from a list of additional electives in related areas: CHEM 111, 112, Physics 202, MATH 240, and PHIL 106.

Note: Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State Polytechnic University — Pomona

MATH 240	Calculus and Differential Equations	4
CIS 180	Programming in C/C++	(3)
or CIS 178	Programming in Fortran	(3)
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

Major concentrations in Applied Mathematics, Secondary Teacher Prep, or Statistics require the same lower division preparation.

University of California — Irvine

MATH 240	Calculus and Differential Equations	4
CIS 180	Programming in C/C++	3
or CIS 178	Programming in Fortran	(3)
or CIS 182	JAVA Programming	(3.5)
or CIS 280	Object-Oriented Programming in C++	(3)
CHEM 111	General Chemistry	5
and CHEM 112	General Chemistry	5
or PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	(4)
or PHYS 201	Engineering Physics	(4)
and PHYS 203	Engineering Physics	(4)
or PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	(4)
and PHYS 203	Engineering Physics	(4)

Preference will be give to applicants with the highest overall GPA and who have completed the required course work of one year of Calculus. At the upper-division level, students may specialize in Applied and Computational Mathematics, Mathematics for High School Teaching, Statistics, or a concentration in Economics is also offered.

University of California — Los Angeles

MATH 240	Calculus and Differential Equations	4
CIS 280	Object-Oriented Programming in C++	3
PHYS 201	Engineering Physics	4

TWO ADDITIONAL COURSES FROM:

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 202	Engineering Physics	(4)
PHYS 203	Engineering Physics	(4)
BIOL 200	Principles of Biology	(5)

The courses listed above will also cover the requirements for Mathematics in Teaching minus the Biol 200 course option.

MATHEMATICS OF COMPUTATION/B.S. OPTION

MATH 240	Calculus and Differential Equations	4
CIS 280	Object-Oriented Programming in C++	3
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
or CHEM 111	General Chemistry	(5)
or CHEM 112	General Chemistry	(5)

MATHEMATICS/APPLIED SCIENCE/B.S. OPTION

Actuarial Concentration:

MATH 240	Calculus and differential equations	4
CIS 280	Object-Oriented Programming in C++	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
BUSA 101	Fundamentals of Accounting I	4
BUSA 102	Fundamentals of Accounting II	4

MEDICAL AND LIFE SCIENCES

CONCENTRATION PLAN:

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
BIOL 202	Molecular Biology/Genetics	4
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 211	Organic Chemistry	5
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

There are also concentrations plans in the following: Management / Accounting and History of Science.

MATHEMATICS/ECONOMICS/B.S. OPTION

MATH 240	Calculus and Differential Equations	4
CIS 280	Object-Oriented Programming in C++	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3

UNIVERSITY OF CALIFORNIA – RIVERSIDE

MATH 240	Calculus and Differential Equations	4
CIS 180	Programming in C/C++	3

COMPUTATIONAL MATH TRACK/B.S. OPTION

CIS 280	Object-Oriented Programming in C++	3
or CIS 292	Data Structures	3

APPLIED MATH TRACK/B.S. OPTION

Biology Option

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
or BOT 120	Intro to Plant Science	(4)
and ZOOL 120	Intro to Animal Biology	(4)
and BIOL 201	Principles of Biology	(5)

Chemistry Option

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

Economics Option

ECON 202	Principles of Microeconomics	3

ENVIRONMENTAL SCIENCE OPTION

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
GEOL 101	Physical Geology	4

Physics Option

PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

Statistics Option

Math 112	Elementary Statistics	4

The Pure Math Track does not have any additional lower division course requirements. Students admitted to this major will need an overall GPA of at least 2.7 in UC transferable course work and IGETC is not accepted by this major.

Students intending to meet lower division requirements for any school or division of the University of California should consult the catalog of that institution in addition to checking the ASSIST.ORG Articulation website.

ASSOCIATES IN ARTS DEGREE:

Complete the above common lower division requirements and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Upon completion of the bachelor's degree program, graduates qualify for graduate study in accounting, computer information systems, engineering, physics, economics and other related fields. Baccalaureate graduates also qualify for positions as an actuary and statisticians, appraisers, and estimators, financial analysts, financial planners, loan officers, marketing researchers, methods analyst, operations analyst, mathematicians in government and industry, secondary teaching and career opportunities in computer science.

MEDICAL ASSISTANT

LENGTH AND KIND OF PROGRAM

Several options are available to those interested in working in the Ambulatory Care environment:

1. Medical Assistant Certificate of Achievement
This Medical Assistant program may be completed in two semesters when started with the fall semester. The focus is on both front office (administrative) and back office (clinical) responsibilities. The medical assistant program culminates in a clinical lab experience completed through an internship or occupational work experience.
2. Medical Assistant Associate in Arts Degree
The student must complete the requirements for a Certificate of Achievement in Medical Assisting. In addition, the student must take A&P 120, electives, and general education requirements to achieve a minimum of 60 units. The length of time to complete this depends on the student's curriculum load.

Full time students can complete this program in two semesters (8 months) when starting with the fall semester. Discussion with the department chair regarding questions on course selection is encouraged. Course selection for a full time student starting in the fall semester is recommended as follows:

FALL: MA 60, MA 62A, MA 62B, MA 64, MA 161, HO 53, HO 54, HO 55, HO 150 (elective).

SPRING: MA 66, MA 67, MA 68 or MA 73 or MA 74, Either HO 151 or HO 152 OR SPAN 223 (if chosen elective), PSYC 101 or PSYC 150, or equivalent.

Full time students starting in the Spring semester are advised to consult with the program chairperson regarding course selection(s).

The program is designed to help meet the needs of the part-time student as well. Course selection in numeral order is advised. Again, consult with the program chair regarding specific course selection questions. Some classes are offered in specific semesters and efficient planning is necessary.

PROGRAM REQUIREMENTS

Academic Requirement

The student may obtain a Certificate of Achievement or an Associate in Arts in Medical Assisting. The student must achieve a grade of "C" or better in required medical assisting and general education course work. (Twelve units of the Medical Assistant program must have been taken within the last five (5) years.) MA 67 and MA 68 have prerequisite courses, which must be completed with a grade of "C" or higher.

Expenses

- See the college catalog for enrollment fees
- The student may expect to spend approximately \$600 for books, equipment (including watch with a second hand), and uniforms. Health screening will be at the student's expense. This may include but is not limited to immunizations and CPR/First Aid certification completed at private agencies. Students are responsible for their own living accommodations, uniform laundry, and transportation to selected clinics.

Health

Employment in this field requires good vision, hearing, and the ability to communicate verbally, nonverbally and through written word. In addition, students must have the ability to comprehend, analyze, and evaluate patients' charts in order to provide appropriate treatment. Students must be able to record in the patients' charts and have the manual dexterity to use small instruments to provide patient care. The student must be able to work as a team player and demonstrate efficient customer service skills.

Internship and Occupational Work Experience

Health clearance requirements will vary depending on where clinical lab experiences will be completed (MA 68, MA 73, MA 74). To be placed in a health care facility where direct patient contact will occur (MA 68, MA 73, MA 74), the student must present evidence of compliance with facility health standards and current certification in CPR and First Aid training. The health standards will include, but are not limited to, T.B. testing and immunization. The Medical Assistant Program Record of Immunizations, Vaccination, and Test forms (located in HS room 106) must be completed before the first class session and prior to placement in

the health care facility. Health clearance, CPR and First Aid requirements must be valid for the duration of the clinical affiliation. Student placements are predominately during the day hours.

CPR certification is also required for HO 53. It may be obtained through American Health Association (Health Care Provider) training (industry preferred). American Red Cross Professional/AED training or concurrent enrollment in HO 150 (fall semester only). Standard First Aid training is available through the American Red Cross.

CRIMINAL BACKGROUND CHECKS

Clearance of a criminal background check may be required prior to internship/work experience placement. Students who do not clear agency requirements are not eligible for clinical placement and will, consequently, be ineligible to continue in the course. If there is any concern regarding clearance of a criminal background check, please contact the Health Occupations Division for additional information.

MEDICAL ASSISTANT CERTIFICATE OF ACHIEVEMENT

MEDICAL ASSISTING

		UNITS
MA 60	Introduction to Medical Assisting	2
MA 62A	Health Insurance and Billing	1.5
MA 62B	ICD-9 and CPT Coding	1.5
MA 64	Medical Office Assisting	1.5
MA 66	Medications and Specialties	3
MA 67	Medical Office Administration	3
*MA 68	Medical Assisting Internship Experience	4
*MA 73	Medical Assisting Occupational Work Experience (3)	
*MA 74	Medical Assisting Occupational Work Experience(4)	
MA 161	Medical Terminology	3

HEALTH OCCUPATIONS

HO 53	Electrocardiography	1
HO 54	Medical Laboratory Skills	1
HO 55	Phlebotomy Procedures	1

PSYCHOLOGY

PSYC 101	General Introductory Psychology	3
or PSYC 150	Personal and Social Adjustment	(3)

ELECTIVES (Choose only one of the following):

HO 150	Professional/CPR and First Aid (Fall semester only)	3
or SPAN 223	Spanish for Health and Medical Careers (Or an equivalent)	3
or HO 151	Elements of Nutrition	2
or HO 152	Nutrition	(3)

TOTAL CERTIFICATE REQUIREMENTS (29)30

*Students may select one of these options to complete the medical assisting internship requirement. Only one option can be selected and the course may not be repeated more than one time.

Students not currently employed in a medical office should enroll in MA 68. Students who are currently employed in a medical office up to 19 hours per week enroll in MA 73. Students who are currently employed in a medical office more than 20 hours per week enroll in MA 74.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

For an Associate in Arts degree a student must meet the requirements for a Certificate of Achievement in Medical Assisting. The student must take A&P 120, electives and general education requirements to achieve a minimum of 60 units. See Cerritos College Graduation Requirements.

CAREER OPPORTUNITIES: Upon completion of the program, employment is available as a medical assistant in a variety of settings: office clinic, hospitals, insurance companies, government agencies, pharmaceutical companies, and educational institutions. Job duties can entail front office (administrative) duties such as receptionist and insurance clerk to back office (clinical) duties such as assisting the provider of care of lab duties.

See Cerritos College Graduation Requirements.

MENTAL HEALTH WORKER CERTIFICATE OF ACHIEVEMENT PROGRAM

MENTAL HEALTH WORKER CORE COURSES

		UNITS
INST 151	Principles of Recovery and Psychosocial Rehabilitation	3
INST 152	Helping Relationships	3
INST 272	Special Populations	3
PSYC 101	General Introductory Psychology	3
PSYC 271	Abnormal Psychology	3
PSYC 273	Mental Health Worker Field Experience	3
TOTAL CERTIFICATE REQUIREMENTS		18

RECOMMENDED COURSES

PSYC 103	Critical Thinking in Psychology	3
PSYC 150	Personal and Social Adjustment	3
PSYC 210	Elementary Statistics	3
PSYC 220	Research Methods	4
PSYC 241	Psychobiology	3
PSYC 245	Drugs and Behavior	3
PSYC 251	Developmental Psychology	3
PSYC 261	Social Psychology	3

ASSOCIATES IN ARTS DEGREE REQUIREMENTS:

A minimum of 60 units must be completed to include: the core courses listed above, AA Degree general requirements, and at least six units of recommended courses.

NOTE: Although all of these courses are transferable to transfer as a Psychology Major refer to Psychology Transfer Program.

CAREER OPPORTUNITIES: The certificate and Associate in Arts degree with an emphasis on the Psychosocial Rehabilitation model are designed to qualify the graduate to enter the workforce as a paraprofessional in Community-Based Mental Health Programs. The graduates of these programs will be able to work with mentally ill individuals. In partnership with the individual and other paraprofessionals and professionals, the graduate will create a plan for the client to take care of finances, find employment and housing, use community resources, and possible help with participation in substance-abuse programs.

MICROBIOLOGY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

		UNITS
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills (Option within the Biology major)

MATH 112	Elementary Statistics	4
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170	Analytic Geometry and Calculus I	(4)
PHYS 101	General Physics	4
and PHYS 102	General Physics	4
or PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	(4)
and PHYS 203	Engineering Physics	(4)

California State University – Long Beach

MICRO 200	Principles and Applications of Microbiology	5
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170	Analytic Geometry and Calculus I	(4)
PHYS 101	General Physics	4
PHYS 102	General Physics	4

California State University – Los Angeles

CHEM 205	Quantitative Analysis Chemistry	4
MATH 140	Trigonometry	3
MATH 150	Pre-Calculus Mathematics	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State Polytechnic University – Pomona (Microbiology Option & Medical Technology Option)

CHEM 205	Quantitative Analysis Chemistry	4
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
MICRO 200	Principles and Applications of Microbiology	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4

NOTE: A&P 201 also required for Medical Technology Option only.

Recommended General Education Courses

ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	3
HED 100	Contemporary Health Problems	3
or PSYC 101	General Introductory Psychology	3
or PSYC 150	Personal and Social Adjustment	3
or PSYC 241	Introduction to Psychobiology	3

See a counselor for further information

University of California – Los Angeles

(Microbiology, Immunology and Molecular Genetics)

BIOL 202	Molecular Biology/Genetics	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include: (1) the above common lower division preparation and MICRO 200, (2) electives as needed, and (3) the Associate in Arts Degree requirements.

CAREER OPPORTUNITIES: Bachelor's Degree programs with an emphasis in Microbiology are designed to qualify the student for graduate study in the field. Careers include employment in various types of Federal employment; State Civil Service work such as Public Health Microbiologist; industrial microbiological work in divergent fields such as the pharmaceutical industry, brewing, industrial fermentation's, and the dairy industry; work as a hospital microbiologist or research technician positions in university research projects.

See Cerritos College Graduation Requirements.

See State University General Education List.

MUSIC

PIANO CERTIFICATE OF COMPLETION

The two-level Certificate of Completion piano teaching program is designed to include the following objectives:

- To improve skills at the keyboard
- To develop knowledge of music theory and history
- To explore group and private piano teaching methods
- To develop communication and organizational skills
- To gain resourceful materials in the area of pedagogy and other related areas.

A Certificate of Completion in Teaching Beginning Piano will be granted upon completion of 16.5 required units with a minimum grade point of 2.0. A second Certificate of Completion in Teaching Intermediate Piano will be granted upon completion of 13.5 units with a minimum grade point of 2.0.

PIANO TEACHING CERTIFICATE COURSES ARE AS FOLLOWS:

TEACHING BEGINNING PIANO CERTIFICATE OF COMPLETION UNITS

BA 153	Small Business Management	3
MUS 105	Music Fundamentals	3
MUS 106	Music Theory/Musicianship I	5
MUS 147	Basic Applied Music	1

MUS 148	Private Study/Recital I	1
MUS 152	The Art of Teaching Beginning Piano	2
MUS 154	Piano Ensemble	1.5
TOTAL UNITS:		16.5

TEACHING INTERMEDIATE PIANO CERTIFICATE OF COMPLETION

UNITS

MUS 100	Music Appreciation	3
MUS 107	Music Theory/Musicianship II	5
MUS 149	Private Study/Recital II	1
MUS 150	Private Study/Recital III	1
MUS 153	The Art of Teaching Intermediate Piano	2
MUS 154	Piano Ensemble	1.5
TOTAL UNITS:		13.5

MUSIC – COMMERCIAL ASSOCIATE IN ARTS DEGREE

REQUIRED MUSIC COURSES:

UNITS

MUS 104	American Popular Music	3
MUS 104B	History of Rock Music	3
MUS 106, 107	Music Theory/Musicianship I, II	5-5
MUS 112	Elementary Piano I	2.5
MUS 135	This Business of Music	3
MUS 144, 145	Electronic Synthesizer I, II	2-1
MUS 146	Recording Techniques	2
	*Music Electives	6

TOTAL UNITS: 32.5

*Music Electives: MUS 101, 102, 103, 104, 104B, 105, 108, 109, 114, 115, 118, 119, 124, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 138, 139, 140, 141, 142, 160, 161, 162, 163, and 164.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

A minimum of 60 units to include: (1) The above music course and unit requirements, (2) the AA Degree general education requirements, and (3) electives as needed.

CAREER OPPORTUNITIES: Professional stage band; club work; arranging; copying; radio, television, choral groups; music stores; studio teaching; instrument repair.

MUSIC – GENERAL ASSOCIATE IN ARTS DEGREE

Theory, private study/recital, and performance classes are required each semester of full-time program (4 semesters). Placement in the appropriate level of theory and private study is made by the Music Department.

REQUIRED MUSIC COURSES:

UNITS

MUS 100	Music Appreciation	3
MUS 106	Music Theory/Musicianship I	5
MUS 107	Music Theory/Musicianship II	5
MUS 112	Elementary Piano I	2
MUS 113	Elementary Piano II	2

MUS 148	Private Study/Recital I *	1
MUS 149	Private Study/Recital II *	1
MUS 150	Private Study/Recital III *	1
MUS 151	Private Study/Recital IV *	1

One course from:

MUS 101, 102, 103, 104, or 104B	3
**Music Electives	12

TOTAL	40-46

* Corequisite of a performing ensemble is required: MUS 124, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 138, 139, 140, 141, 142, 160, 161, 162, 163, and 164

**Music Electives: MUS 101, 102, 103, 104, 104B, 105, 108, 109, 114, 115, 118, 119, 124, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 136, 134, 138, 139, 140, 141, 142, 160, 161, 162, 163, and 164.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

A minimum of 60 units to include: (1) The above music course and unit requirements, (2) the AA Degree general education requirements, and (3) electives as needed.

CAREER OPPORTUNITIES: Music therapist, music librarian, private instrument teacher, music supervisor, concert hall manager, stage manager, cantor, choir section leader, music journalist, music publicist, music publisher, music shop manager, instrument sales representative, intern in music industry, arranger, orchestrator, copyist, sales person, program director for radio, piano tuner-technician, background vocalist, studio (session) musician, and songwriter.

MUSIC TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CAL STATE UNIVERSITY AND

University of California

Theory, private study/recital, and performance classes are generally required each semester of full-time programs (4 semesters). In addition, a full year of music history and literature is generally required.

Most four-year colleges and universities administer a piano proficiency examination that must be passed by all music majors at their campus. Placement in the appropriate level of theory and private study is made by the Music Department.

Portfolio and/or auditions may be required for entrance into music major. See counselor or university catalog for more information.

		UNITS
MUS 100	Music Appreciation	3
MUS 106, 107, 108, 109	Music Theory/Musicianship I, II, III, IV	5, 5, 5, 5
MUS 148, 149, 150, 151	Private Study/Recital I, II, III, IV	1, 1, 1, 1

VOICE STUDENTS

MUS 116, 117	Voice Class I, II	2-2
MUS 112, 113	Elementary Piano Class I, II	2-2

INSTRUMENTALISTS

MUS 112, 113	Elementary Piano Class I, II	2-2

Recommended: Music 114, 115, 118, 119, 124, 125, 126, 127, 128, 129, 130, 131, 132, 134, 136, 138, 138A, 139, and 154

ADDITIONAL LOWER DIVISION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton

In addition to the common lower division transfer music major preparation listed above, allied requirements for the composition concentration state a proficiency in foreign language French, Italian, or German (preferred) to be satisfied by one of the following:

- 4 years study of foreign language in High School
- Passing an exam given by the foreign language department
- Completing the second semester of the beginning college sequence (French 102 or German 102)

The allied requirement for the voice concentration is the same as the composition concentration but 2 foreign languages must be satisfied.

California State University – Long Beach

All entering transfer students are required to take a theory placement test, complete a performance audition which are regularly administered during the fall and spring semester and pass a piano proficiency examination regardless of performance area (piano majors excepted).

For the bachelor's of music degree, admission to one of the options is determined by audition and approval of the chair of the department.

University of California – Irvine

It is recommended that transfer students enter the major with college-level private instrumental or voice instruction; two years of music theory; the history of western music; ear-training; sight-singing; sight-reading; piano and one year of ensemble or repertory. All transfer students must pass a performance audition in order to declare a major in either the BA or B.Mus. degree program.

Transfer students must also take the placement tests in musicianship, theory, and history in order to receive credit toward fulfilling degree requirements.

University of California – Los Angeles

In addition to the common lower division transfer music major preparation listed above for transfer music majors, students must complete one year of French, German or Spanish. All applicants for admission are required to pass an audition in their principal performing medium or the submission of a composition portfolio for students planning to pursue composition. Also recommended preparation for the major is two years of participation in a large performance group such as orchestra, choir or wind ensemble.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete a minimum of 60 units to include (1) the above course requirements, (2) the AA Degree general education requirements, and (3) electives as needed.

CAREER OPPORTUNITIES: The transfer upper division programs are designed to prepare students for careers in teaching, performance, conducting, arranging in such areas as studio performance, music businesses, opera companies, symphony orchestras, commercial music groups, church music, music therapy.

See Cerritos College Graduation Requirements.
See State University General Education List.

NATURAL SCIENCES—GENERAL ASSOCIATE IN ARTS DEGREE

In order to qualify for an AA degree in Natural Sciences - General, the following requirements must be met:

1. Completion of the AA degree general education and proficiency requirements;
2. Completion of a minimum of 60 degree applicable units;
3. Completion of at least 18 units of science related coursework from the following:
 - a. courses in the Physical Sciences
 - b. courses in the Biological Sciences
 - c. a course in Mathematics above Intermediate Algebra

See Cerritos College Graduation Requirements.

NURSING

MISSION STATEMENT

The Cerritos College Nursing Program Mission is to prepare nurses to meet the needs of diverse populations in an ever changing health care environment.

PHILOSOPHY

Nursing is defined as a science, discipline and health care practice that focuses on the assessment, diagnosis and treatment of patients having health problems within the domain of nursing. The goals of nursing practice focus on health promotion, illness prevention, rehabilitation, and supporting the resources of the person who is ill or threatened with illness in adapting to changes within the environment.

In addition to implementing the philosophy of the College, the purpose of the Nursing Program is to provide the community with registered nurses who are capable of functioning in a variety of health care settings. To accomplish this, the Roy Adaptation Model has been selected as the primary conceptual framework. Within this framework, nurses identify their patients as biopsychosocial beings in constant interaction with the environment. In periods of health, individuals have both innate and learned behavioral mechanisms which enable them to cope with their complex internal and external environments. In times of stress, the patient's coping mechanisms may be disrupted and the individual is defined as ill. The patient's health status is defined on a continuum from wellness to illness.

Nursing practice focuses on adaptation of the patient in four major modes: physiological, self-concept, role function, and interdependence. The program prepares students to understand individuals as total beings and to recognize and respect a diversity of spiritual and cultural/ethnic values.

COMPETENCIES EXPECTED OF THE ASSOCIATE DEGREE NURSE

The Associate Degree Nurse (ADN) graduate is prepared and expected to practice within the framework of the Educational Competencies for Graduates of Associate Degree Nursing Programs as identified by the National Council of Associate Degree Nursing Competencies Task Force in 2000. As identified by the Task Force, ADN graduates practice within the framework of eight core components and competencies. The core components of nursing practice are: professional behaviors, communication, assessment, clinical decision making, caring interventions, teaching and learning, collaboration, and managing care. These core components emphasize competencies related to diversity in healthcare, clinical decision making, assessment, patient education, continuity of care (including community aspects), collaboration and leadership. In order to meet the expected outcomes, the ADN graduate utilizes critical thinking and demonstrates clinical competence and accountability as an adaptable generalist who is committed to caring for others and valuing the profession of nursing.

The Associate Degree Nurse is an entry level practitioner and is competent to practice as a direct caregiver in a variety of health care settings which include diverse patient populations. ADN graduates are employed in a health care delivery system that continues to grow and change. Consequently, ADN graduates may pursue bachelors, masters and doctoral degrees in preparation for advanced levels of practice.

CONCEPT OF EDUCATION

Nursing faculty believe that nursing education is driven by the application of critical thinking and development/improvement of teaching/learning strategies using innovative approaches and evidence-based research. Nursing faculty also believe that the purpose of education is to enlighten and enhance the quality of life for the student, the community and patients for whom students and graduates provide care. Education based on mastery learning is viewed by nursing faculty as a collaborative process involving college administrators and staff, nursing faculty and nursing students. Each student enters the nursing program with unique characteristics, capabilities, learning styles, and motivation for learning. To address these individual differences, learning experiences are structured from simple to complex.

The program embraces the diversity of cultural, linguistic, and philosophical differences represented in the student body. Course experiences are designed to encourage discussion, sharing and application of cultural practices that are unique to the individuals and groups represented in the campus and the community.

The goal of the program is to promote students' creative and critical thinking and personal growth based on successful learning experiences. Achievement of this goal is fostered by encouraging self-direction and by providing a variety of individual and group learning experiences. Students are expected to participate actively in the learning process.

CURRICULUM OVERVIEW

The nursing curriculum is based on the Nursing Process and the Roy Adaptation Model. The Nursing Process provides the framework for the application of the Roy Adaptation Model. The Roy Adaptation Model for Nursing was adopted by the Cerritos College nursing faculty in 1981. Currently, the program utilizes essential elements of the Roy Model to describe our beliefs about man, the environment, health and illness; the goals of nursing care and to organize the collection of data related to the patient's health status. Cerritos College faculty use the Educational Competencies for Graduates of Associate Degree Nursing Programs as identified by the National Council of Associate Degree

Nursing Competencies Task Force in 2000 as the reference to guide and structure curriculum development, define and level competencies within the program and identify competence expected at graduation.

There are five steps to the Nursing Process: assessment, diagnosis, planning, implementation and evaluation. The Cerritos College nursing student utilizes the Roy Model to collect and organize patient data during the assessment stage of the Nursing Process.

The Roy Adaptation Model views the person as a biopsychosocial being in constant interaction with the environment. As an adaptive organism, the person copes with changes in the environment. A person's health status is defined along a health-illness continuum and may be influenced by life stages and adaptation to needs. In this model, the person is also perceived as having four adaptive modes that identify patient behavior in response to illness or wellness. Behavior is assessed in each of the four modes: the Physiologic Mode, Self-Concept Mode, Role Function Mode and Interdependence Mode. The latter three modes are referred to as the Psychosocial Mode.

The underlying need of the Physiologic Mode is physiological integrity. Components of this mode are: Oxygenation, Nutrition, Elimination, Activity and Rest, Protection, Senses, Fluid and Electrolytes, Neurological Function, and Endocrine Function. The first five components are identified as basic needs inherent in achieving physiological integrity. The remaining four are considered complex processes which mediate activities regulating the organism's function. The curriculum addresses normal (adaptive/effective) and abnormal (maladaptive/ineffective) behaviors in each of these Physiologic Mode components, including wellness and disease prevention elements along with disease processes. For each disease or condition, instruction includes pathophysiology and the application of the nursing process: assessment; nursing diagnoses; planning and goal-setting; medical, surgical and nursing interventions; and expected outcomes (evaluation).

The Self-Concept Mode, which aims to maintain psychic integrity, consists of the Physical Self and the Personal Self. The Physical Self includes body sensation and body image. The Personal Self includes self-consistency, self-ideal/self-expectancy, and the moral-ethical-spiritual self. Self esteem is a pervasive aspect of the Personal Self and relates to the worth or value a person holds related to the self. Concepts related to grief and loss, anxiety and depression are among those addressed in the curriculum content.

The Role Function Mode has three components: Primary Role, Secondary Roles and Tertiary Roles. The underlying need for this mode is social integrity. The Primary Role is an ascribed role based on age, gender, ethnicity and developmental age; it determines the majority of a person's role behaviors. The Secondary Role component encompasses the roles that a person assumes to complete tasks associated with developmental stage and primary role. Tertiary Roles are chosen by the person, usually temporary, and often associated with accomplishment of minor tasks in a person's current development. Role performance includes instrumental and expressive behaviors. Curriculum concepts related to this mode include alterations in role function and role performance.

The Interdependence Mode is a social construct related to giving and receiving of love, respect and value. The underlying need of this mode is to attain and maintain affectional adequacy. Key concepts associated with this mode include: significant others, support systems, giving behaviors, and receiving behaviors. This mode reflects a balance between independence and dependence. Curriculum content includes management of dysfunctional dependence and dysfunctional independence as manifested through alterations in family processes, ineffective family coping, knowledge deficits, substance abuse, and related concepts.

The goal of nursing as expressed in the Roy Adaptation Model is to promote adaptation. The nursing process begins with first level assessment in which both adaptive (effective) and maladaptive (ineffective) behavioral responses of the person are assessed in each component of each mode. Maladaptive behaviors are clustered and expressed as nursing diagnoses. A plan to treat the nursing diagnosis is developed by establishing patient outcomes which are measurable and based on patient behaviors. Nursing interventions are formulated and implemented so that the outcomes can be accomplished. Evaluation of effectiveness of the plan is determined by whether the outcomes have or have not been achieved. If outcomes have not been met, reassessment occurs to determine whether outcomes and/or interventions must be modified.

Graduates of Associate Degree Nursing Programs exhibit behaviors that are characterized by clinical decision making, clinical competence, accountability, and a commitment to the value of caring. The Associate Degree Nurse is prepared to provide care to patients with acute and chronic health care needs and is concerned with individuals and their relationships within families, groups and communities. The nurse uses a collaborative approach in working with the patient and with other health care providers. To develop the cognitive, psychomotor and affective abilities necessary to function as a competent caregiver, the nursing student gains knowledge in nursing concepts, principles, processes, and skills. To support acquisition of this knowledge, the Cerritos College curriculum includes understanding of health, acute and chronic health deviations, nutrition, pharmacology, communication, human development, teaching-learning principles, current technology, humanities, and biological, social and behavioral sciences. Anatomy, physiology, microbiology, and English are prerequisite to the core nursing courses. To meet graduation requirements, students may concurrently study pharmacology, communication, fine arts and humanities courses.

The graduate of an Associate Degree program plays a significant role in management of patient care. Managing care is characterized by planning, implementing, organizing, coordinating, delegating and facilitating the continuity of patient care. The Cerritos College curriculum introduces the management of care role in the first semester. In the first semester of the program, the student begins the management of care of one patient. In the second through fourth semesters, the number of patients is progressively increased. In the final semester of the program, students manage care for a team of patients under the supervision of a staff mentor. In addition, the management of patient care includes developing skills in delegation, communication, leadership, and time and resource management. Concepts related to the scope of practice of various licensed and unlicensed caregivers, are included in the curriculum.

The graduate of an Associate Degree nursing program adheres to standards of professional practice, is accountable for her/his own actions and behaviors, and practices within ethical, legal, and regulatory frameworks of nursing. The nurse practices within the legal and ethical framework of nursing and contributes to maintaining high standards of nursing practice. Professional behaviors include the concern for others that is demonstrated by caring, valuing the profession of nursing, and participating in ongoing professional development. Curriculum content includes legal rules and regulations affecting nursing practice; institutional guidelines and requirements affecting the student nurse; the roles of professional organizations; resources to enhance the development of the nurse; political, social and economic forces affecting health care and nursing; and organizational factors affecting nursing education and practice.

ADMISSION REQUIREMENTS

The nursing program welcomes all applicants. To be considered for acceptance into the program, the applicant must meet the following requirements:

1. High school graduation or the equivalent.
2. Completion of ENGL 52, MATH 60, and READ 54 or equivalent with grades of Credit or "C" or higher or satisfactory completion of the college placement test process. LVN applicants selecting the 30-unit option are required to complete the placement test process for advisement purposes but are not required to complete these courses.
3. Completion of prerequisite courses with grades of "C" or higher: A&P 150, A&P 151, ENGL 100, and MICR 200 with an overall grade point average of 2.5. Only one of the above courses can be repeated. A&P 150, A&P 151, and MICR 200 are recommended to be completed within six (6) years of admission.
4. Effective Fall 2008, students must pass a diagnostic assessment test (basic math, English, reading, and science) prior to program enrollment. Students who fail to achieve a passing score will be required to complete additional pre-nursing coursework to become eligible for admission.
5. A cumulative grade point average of 2.5 for all college work taken.

PROGRAM PREREQUISITES

Option A: A&P 150, A&P 151, ENGL 100, and MICR 200

Option B: Same as Option A.

Additional courses required for admission: NRSNG 25, NRSNG 211, NRSNG 213A, NRSNG 251, and PSYC 251 or equivalent with grades of Credit or "C" or higher. Valid California LPT license

Option C: Same as Option A.

Additional courses required for admission: NRSNG 26, NRSNG 215, NRSNG 251, and PSYC 251 or equivalent with grades of credit or "C" or higher. Completion of a medication calculation examination with a score of 80% or higher. Valid California LVN license and at least one (1) year of acute care experience in a skilled nursing or hospital based facility

Option D: A&P 151, MICR 200, NRSNG 215.

Additional requirements: Completion of a medication calculation examination with a score of 80% or higher. Valid California LVN license

Optional courses: NRSNG 26, NRSNG 251 (strongly recommended), PSYC 251. Completion of the college placement test process for advisement purposes. At least one (1) year of acute care experience in a skilled nursing or hospital based facility is strongly recommended

Option E: Same as Option A.

Additional courses required for admission: HO 152, NRSNG 25 if entering prior to the middle of the second semester or NRSNG 26 if entering at or following the middle of the second semester, NRSNG 200, NRSNG 215, NRSNG 251, and PSYC 251 or equivalent with grades of Credit or "C" or higher. ENGL 52, MATH 60, and READ 54 or equivalent with grades of Credit or "C" or higher or satisfactory completion of the college placement test process. Completion of a medication calculation examination with a score of 80% or higher for entry at NRSNG 220 or above. Students applying

under this option will be notified individually for additional requirements relative to their entry points in the curriculum.

Option F: NRSNG 26 and NRSNG 215. Applicants must meet with the Director of Nursing and submit a valid letter of referral from the California Board of Registered Nursing

All applicants must complete the prerequisites listed above or equivalents with grades of Credit or "C" or higher.

Option A, B, C, and E applicants must show successful completion of ENGL 52, MATH 60, and READ 54 or equivalents with grades of Credit or "C" or higher or satisfactory completion of the college placement test process. Option D applicants are required to complete the placement test process for advisement purposes but are not required to complete these courses.

Option D, E, and F applicants will be notified individually for additional requirements relative to their entry point in the program.

For more information on updated program information or prerequisites, please call the Health Occupations Division Office at (562) 860-2451, Ext. 2550.

APPLICATION PROCESS:

Step 1: If not previously enrolled at Cerritos College, the applicant must complete a College application. This can be done on-line or in the Admissions and Records Office (in Administration Building on Alondra Boulevard.)

Step 2: Complete the College's assessment test process at the Cerritos College Assessment Center. Test schedules are available in the Counseling Department. If assessment test requirements have already been met by equivalent measures, the applicant should see a counselor for options.

Step 3: After College assessment tests have been completed make an appointment with a counselor by calling (562) 860-2451, Ext. 2231; specify that this is for completion of a nursing application. If transcripts have not been submitted prior to appointment, copies of transcripts may be hand-carried to the appointment.

SELECTION PROCEDURES AND STANDARDS

1. Applications will only be accepted during the application period (March 1 through March 15).
2. The applicant must submit to the Health Occupations Division Office the following items:
 - a. A completed application signed by the applicant and a Cerritos College counselor
 - b. Verification of high school graduation or GED completion
 - c. College transcripts (unofficial or official)
 - d. College assessment test results or indication by counselor that this requirement has been met through equivalent courses or activities
 - e. Any additional items required for specific option (see below)
3. LVN applicants and transfer students seeking entry at NRSNG 220, or above, will be scheduled for a medication calculation examination. Information regarding this examination will be provided in writing.
4. Applicants will be notified of eligibility for admission to the nursing program in writing

5. Students who are eligible for admission into the nursing program will be required to take and pass a diagnostic assessment test (basic math, English, reading, and science).
6. Notification of admission to the program will be done in writing.
7. Admitted students and alternates will be required to attend a mandatory orientation meeting. During the orientation, information will be given regarding textbooks, uniforms, registration procedures, and other relevant matters.
8. Student Rights: The nursing student has certain rights in addition to those reflected in the College Student Handbook. These include:
 - a. The right to contact professional nursing boards regarding concerns about the educational program.
 - b. The right to know of the existence of a policy giving credit for previous nursing education and/or experience.

LENGTH OF PROGRAM AND ANTICIPATED EXPENSES

The core nursing program consists of sequenced courses over a four-semester period. Prerequisite courses are completed prior to these four semesters. In addition general education courses are required for completion of the Associate in Arts degree in Nursing (Associate Degree in Nursing – ADN). Some students may need to take additional courses to meet English, reading and mathematics requirements. Each unit costs \$20 for California residents, \$173 for non-residents of California and \$200 for international students. A College Services ID fee (\$10) and Health Services Fee (\$14) are assessed each semester. During the four core semesters, lab material fees total approximately \$560, textbooks approximately \$1700, and additional supplies and uniforms approximately \$350. Students are responsible for their own living arrangements, uniform laundry and transportation to clinical agencies. Application fees for licensure as a registered nurse range from \$330 to \$370. Information about costs of NLNAC-accredited nursing programs is available from the National League for Nursing Accrediting Commission, Inc., 61 Broadway, 33rd floor, New York, NY 10006; telephone (800) 669-1656, Ext 153 or www.nlnac.org.

ATTENDANCE

All students are expected to observe the attendance requirements of the Nursing Program as stated in the Nursing Program Student Handbook.

PROMOTION/PROGRESSION

In order to remain enrolled in and complete the program, the student must maintain a “C” grade or higher in all nursing courses and those general education courses specified by the California Board of Registered Nursing for completion of the nursing program. These courses include: PHIL 104, PSYC 251, and SPCH 100, SPCH 120, SPCH 130, SPCH 132, or SPCH 150. In combined nursing lecture/lab courses, the student must receive a minimum of “C” in lecture and a satisfactory grade in lab in order to successfully complete the course.

CRIMINAL BACKGROUND CHECK

Clinical placements are a mandatory component of the curriculum and may require clearance of a criminal background check. Students who do not clear agency requirements are not eligible for clinical placement and will, consequently, be ineligible to continue in the program. If there is any concern regarding clearance of a criminal background check, please contact the Health Occupations Division for additional information.

REGISTERED NURSE LICENSE APPLICATION

At the completion of the fourth semester of the Nursing Program, the nursing student files an application for licensure (NCLEX-RN) with the Board of Registered Nursing. The application and examination registration fee is \$275. In addition, the student may apply for an interim permit for \$30. These fees are subject to change by the Board of Registered Nursing.

As stated in the Board of Registered Nursing’s application for licensure:

Applicants are required under law to report all misdemeanor and felony convictions. “Driving under the influence” convictions must be reported. Convictions must be reported even if they have been expunged under Penal Code 1203.4 or even if court ordered diversion program has been completed under the Penal Code or under Article 5 of the Vehicle Code. Also, all disciplinary action against an applicant’s registered nurse, practical nurse, vocational nurse, or other professional must be reported. Failure to report prior convictions or disciplinary action is considered falsification of application and is grounds for denial of licensure or revocation of license. To make a determination [regarding eligibility for licensure] the Board considers the nature and severity of the offense, additional subsequent acts, recency of acts or crimes, compliance with court sanctions, and evidence of rehabilitation.

NURSING PROGRAM OPTIONS

There are six enrollment options in the Nursing Program:

- A. Associate in Arts Degree (also referred to as the “generic” option or Associate Degree in Nursing)
- B. LPT-ADN (Licensed Psychiatric Technician to Associate Degree in Nursing)
- C. LVN-ADN (Licensed Vocational Nurse to Associate Degree in Nursing)
- D. LVN-30 Unit Option (LVN + 30 units qualifying for NCLEXRN, non-degree)
- E. Transfer and Challenge
- F. Board of Registered Nursing Referral

For Options A, B, C, and E – To graduate with an Associate in Arts Degree in Nursing, the student is required to complete, in addition to the nursing core courses and nursing-related courses, the following general education courses: PSYC 251, PHIL 104, and SPCH 100, SPCH 120, SPCH 130, SPCH 132, or SPCH 150 and one (1) 3-unit course from U.S. History or American Government (U.S. History or American Government courses chosen from Plan A, Sections B1 or B2) as listed in the College’s General Education Requirements found in the College General Catalog and Schedule of Classes. Option A students desiring to matriculate to the CSU or UC system should also take PSYC 101 and SOC 101 or ANTH 100. for additional information, please refer to CSU or UC program requirements.

OPTION A – ASSOCIATE IN ARTS DEGREE

PREREQUISITES:

A&P 150, A&P 151, ENGL 100, and MICR 200 or equivalents with grades of Credit or “C” or higher. Successful completion of ENGL 52, MATH 60, and READ 54 or equivalents with grades of Credit or “C” or higher or satisfactory completion of the college placement test process.

REQUIRED COURSES
SEMESTER 1

NRSG 210	**Fundamentals of Nursing	5.0
NRSG 211	**Introduction to Theoretical Framework	1.0
NRSG 212	**Medical-Surgical Nursing 2	5.0
NRSG 213A	*Major Drugs and Nursing Management I	0.5

Semester 2

NRSG 213B	**Major Drugs and Nursing Management II	1.0
NRSG 220	**Medical-Surgical Nursing 3	5.5
NRSG 222	**Maternal/Child Nursing	5.5

Semester 3

NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

Semester 4

NRSG 240	**Medical-Surgical Nursing 5	5.0
NRSG 242	*Professional Role Transition	3.0

ELECTIVES

NRSG 48T	**Elective Nursing Tutorial	0.5
NRSG 80	**Nursing Process Documentation	1.0
*6-week courses **9-week courses		

OPTION B –
LPT-ADN MOBILITY PROGRAM

The Nursing Program offers to qualified Licensed Psychiatric Technician applicants an opportunity to prepare for professional nursing through the pursuit of specific knowledge and skills. Graduates from the program, in addition to receiving an Associate of Arts Degree, are eligible for the NCLEX-RN examination for licensure as a registered nurse.

PREREQUISITES:

A&P 150, A&P 151, ENGL 100, and MICR 200 or equivalents with grades of Credit or “C” or higher. ENGL 52, MATH 60, and READ 54 or equivalents with grades of Credit or “C” or higher or satisfactory completion of the college placement test process.

Additional courses required for admission: HO 152, NRSG 25, NRSG 211, NRSG 213A, NRSG 251, and PSYC 251 or equivalents with grades of Credit or “C” or higher. Valid California LPT license.

REQUIRED COURSES
SEMESTER 1

NRSG 212	**Medical-Surgical Nursing 2	5.0

Semester 2

NRSG 213B	**Major Drugs and Nursing Management II	1.0
NRSG 220	**Medical-Surgical Nursing 3	5.5
NRSG 222	**Maternal/Child Nursing	5.5

Semester 3

NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

UNITS
Semester 4

NRSG 240	**Medical-Surgical Nursing 5	5.0
NRSG 242	*Professional Role Transition	3.0
ELECTIVES		
NRSG 48T	**Elective Nursing Tutorial	0.5
NRSG 80	**Nursing Process Documentation	1.0
*6-week courses **9-week courses		

OPTION C –
LVN-ADN MOBILITY PROGRAM

The Nursing Program offers to qualified Licensed Vocational Nurse applicants an opportunity to prepare for professional nursing through the pursuit of specific knowledge and skills. Graduates from the program, in addition to receiving an Associate in Arts Degree, are eligible for the NCLEX-RN examination for licensure as a registered nurse.

PREREQUISITES:

A&P 150, A&P 151, ENGL 100, and MICR 200 or equivalent with grades of Credit or “C” or higher. Successful completion of READ 54, MATH 60, and ENGL 52 or equivalent with grades of Credit or “C” or higher or satisfactory completion of the college placement test process.

Additional courses required for admission: NRSG 26, NRSG 215, NRSG 251, and PSYC 251 or equivalent with grades of Credit or “C” or higher. Completion of a medication calculation examination with a score of 80% or higher. Valid California LVN license and at least one (1) year acute care experience in a skilled nursing or hospital based facility.

REQUIRED COURSES
Semester 1

NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

Semester 2

NRSG 240	**Medical-Surgical Nursing 5	5.0
NRSG 242	*Professional Role Transition	3.0

ELECTIVES

NRSG 48T	**Elective Nursing Tutorial	0.5
NRSG 80	**Nursing Process Documentation	1.0
*6-week course **9-week courses		

OPTION D –
LVN-30 UNIT OPTION

The Nursing Program offers to qualified Licensed Vocational Nurse applicants an opportunity to prepare for registered nurse licensure by completing thirty (30) units of college course work. The LVN who completes the thirty units designated by Cerritos College is eligible for the NCLEX-RN examination for licensure as a registered nurse.

PREREQUISITES:

A&P 151, MICR 200, and NRSG 215 or equivalent with grades of Credit or "C" or higher.

Additional requirement: Valid California LVN license and completion of a medication calculation examination with a score of 80% or higher.

Optional courses: NRSG 26, NRSG 251 (strongly recommended), and PSYC 251. Completion of the college placement test process for advisement purposes. At least one (1) year acute care experience in a skilled nursing or hospital based facility.

REQUIRED COURSES:

UNITS

Semester 1

NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

Semester 2

NRSG 240	**Medical-Surgical Nursing 5	5.0
NRSG 242	*Professional Role Transition	3.0

ELECTIVES

NRSG 48T	**Elective Nursing Tutorial	0.5
NRSG 80	**Nursing Process Documentation	1.0

*6-week course **9-week courses

OPTION E – TRANSFER AND CHALLENGE

PREREQUISITES:

A&P 150, A&P 151, ENGL 100, and MICR 200 or equivalent with grades of Credit or "C" or higher.

Additional courses required for admission: HO 152, NRSG 25 if entering prior to the middle of the second semester or NRSG 26 if entering at or following the middle of the second semester. NRSG 200, NRSG 215, NRSG 251, and PSYC 251 or equivalent with grades of Credit or "C" or higher. ENGL 52, MATH 60, and READ 54, or equivalent with grades of Credit or "C" or higher or satisfactory completion of the college placement test process. Completion of a medication calculation examination with a score of 80% or higher for entry at NRSG 222 or above. Students applying under this option will be notified individually for additional requirements relative to their entry points in the curriculum.

CREDIT GRANTING POLICY:

Students who have successfully completed academic courses and/or have relevant knowledge and/or skills acquired in other than an accredited institution will be given advanced standing in the nursing program upon verification of such knowledge and/or skills.

TRANSFER CREDIT

- Credit will be granted for related previous education completed in:
 - Accredited Vocational or Practical Nursing courses
 - Accredited Registered Nursing courses
 - Accredited Psychiatric Technician courses
 - Other related courses (e.g. Anatomy and Physiology, Nutrition)

- Official transcripts and/or copies of certificates of completion must be submitted for credit to be granted.
- Credit will be granted based upon the content and hours of transferring courses and must be equivalent to courses in the Cerritos College Nursing Program.

CHALLENGE CREDIT (Competency-based)

- Credit may be granted for relevant knowledge and/or skills acquired through prior experience, courses in non-accredited institutions, and individual study which are essentially equivalent to a course for which credit is being requested.
- Credit shall be determined by successful completion of a comprehensive written examination and/or practical evaluation.
- Objectives for both the written and/or practical examinations are made available to the student prior to evaluation.
- Student must meet the requirements which govern credit by examination as stated in the college catalog.
- A minimum of twelve (12) units of the nursing curriculum must be in residency at Cerritos College in order to receive the Associate Degree in Nursing.

OPTION F – BOARD OF REGISTERED NURSING REFERRAL

Applicants for California licensure as registered nurses may be referred by the Board of Registered Nursing to complete specific areas of nursing content prior to taking the NCLEX-RN examination. The Nursing Program offers such applicants the opportunity to complete nursing preparation as specified by the Board of Registered Nursing.

PREREQUISITES:

A valid letter of referral from the California Board of Registered Nursing for completion of a specified area. NRSG 26 and NRSG 215 or equivalents with grades of Credit or "C" or higher.

NURSING – RN TRANSFER PROGRAM

The following curriculum does not lead to an Associate in Arts Degree. To earn an AA degree, see Nursing—914 in the catalog for the major requirements.

LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton

Bachelor of Science in Nursing – Registered Nursing

Meet requirements for admission to the university as a transfer student.

Completion of an AA degree in Nursing or its equivalent.

Current licensure as a registered nurse in California.

Completion of one college level course in each of the following: A&P 200 & 201 (preferred), or A&P150 & A&P 151, CHEM 100 or CHEM 110, or CHEM 111,

MICR 200, PSYC 101, SOC 101, or ANTH 100.

Completion of one year of satisfactory work experience as a registered nurse recommended.

CSUF also offers a Bachelor of Science in Nursing – Basic. Please refer to the admissions website for further information.

California State University – Los Angeles

A&P 200 and A&P 201
or A&P 150 and A&P 151
CHEM 100
ENGL 100

One course from ENGL 103*, PHIL 103, PHIL 106 or
SPCH 235
PSYCH 101
PSYCH 251
SOC 101
SPCH 100, 120, 130, 132 or 150
HO 151 and HO 152

A statistics course A statistics course which includes inferential statistics.

(R.N. Transfer Students are exempt).

Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State University – Long Beach

The department of nursing offers two bachelor's degrees:
Bachelor of Science in Nursing- Basic
Bachelor of Science in Nursing – Registered Nurse

Transfer students may only enter at the upper division (junior) level. You are considered an upper-division transfer student if you will have completed 60 or more transferable semester units or 90 transferable quarter units by the end of the prior Spring term for Fall entrance or the prior Summer term for Spring entrance. As an upper-division transfer student, you must also meet minimum CSU admission requirements by the time periods mentioned above to be considered for admission.

The Bachelor of Science in nursing programs are impacted.

Please refer to the admissions website for details,

http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html

Bachelor of Science in Nursing – Basic

A&P 200 or A&P 150
A&P 201 or A&P 151
MICRO 200
PSYCH101
SOC 101

Prerequisite general education GE courses:

CSU GE Oral Communication – 3 semester units
CSU GE Written Communication (college composition) – 3 semester units

CSU GE Critical Thinking – 3 semester units
CSU GE Quantitative Reasoning – 3 semester units
Bachelors of Science in Nursing – Registered Nurse

In order to apply for this option a student must:

Hold a current license or be eligible for license to practice in California.

Graduation from an accredited Associate Degree program or evaluation of diploma program for equivalency by an Accredited Associate Degree program.

Completion of CSU or IGETC GE certification requirements.

University of California – Los Angeles

UCLA School of Nursing

RN-B.S./Postlicensure/B.S.

The Generic/Prelicensure Bachelor of Science (B.S.) degree program at UCLA has been designed to prepare students for a career in nursing. This is a four year program beginning in the freshman year. Transfer students will be considered for a very limited number of openings beginning Fall 2008.

ADMISSION REQUIREMENTS

A&P 200 or A&P 150

A&P 201 or A&P 151

BIOL 200 and BIOL 201

BIOL 202

CHEM 111 and CHEM 112

CHEM 211

PSYC 101

ENGL 100 and ENGL 102 or ENGL 103 or PHIL 202 or PSYC 103

or SPCH 235

Nursing-RN-BS/Postlicensure/B.S.

The RN-BS/Postlicensure program at UCLA is intended to prepare registered nurses for advanced-practice study at the graduate level.

ADMISSION REQUIREMENTS

A&P 200 or A&P 150

A&P 201 or A&P 151

MICR 200

PHYS 100

CHEM 110

BIO 200*, 201*, & 202*

CHEM 111*, 112* AND 211*

ANTH 100

PSYC 101

SOC 101

ENGL 100

ENGL 102 OR ENGL 103 OR PHIL 202 OR PSYC 103 OR SPCH 235

* Courses may be completed prior to transfer but not required for admission

Select one course or more from Arts & Humanities. Choose from IGETC AREA 3

One UC transferable course in mathematical concepts and quantitative reasoning that has a prerequisite of intermediate algebra or higher is required.

In addition to the above requirements applicants must:

- Associate's Degree in Nursing from a state-approved program or a Diploma in Nursing from an accredited program.
- Current licensure as a registered nurse and a minimum of one year of full time experience as a registered nurse within the past five years.
- Have a cumulative GPA of 3.0 in all UC transferable courses and a "C" or better on four required Excelsior College examinations.
- Complete specified major prerequisites with "C" or better grades
- Submit a statement of purpose that includes an assessment of potential for advanced practice study and a clear statement of goals upon completion of the program.
- Completion of IGETC is not recommended by the School of Nursing for the RN-BS/Postlicensure program.

CAREER OPPORTUNITIES: Baccalaureate program graduates are prepared to function as a professional nurse in the primary care role in a variety of health settings, such as Hospitals, Clinics, Doctor's offices, Jails, and Armed Services.

PHARMACY TECHNOLOGY

PHARMACY CLERK PROGRAM

The pharmacy clerk is a non-registered, technical worker who performs the minimum non-discretionary tasks as allowed by the Board of Pharmacy of the State of California, under the direct supervision of a registered pharmacist. Employment in this field requires applicants to have good vision, hearing, the ability to communicate orally and the physical ability to perform tasks required of a pharmacy clerk. A Certificate of Completion shall be awarded to the student who completes with a grade of "C" or better the following courses:

		UNITS
PHAR 45	Retail Products for Pharmacy Clerks	2
PHAR 47	Pharmacy Clerk Clinical Experience	2
PHAR 60	Pharmacy Introduction	2
PHAR 60L	Pharmacy Skills Lab Introduction	1
MATH 20	Basic Mathematics	3
*BCOT 62	Microcomputer Keyboarding	1
or *BCOT 135	Typewriting Speed/Control Building	1
Total Units Required		11

*Students who provide documented ability to type 35 wpm or more may choose to waive the keyboarding requirement.

PHARMACY TECHNICIAN

The pharmacy technician is a skilled technical health worker who performs a wide variety of non-discretionary pharmacy related tasks under the direct supervision of a registered pharmacist. Successful completion of the pharmacy technician program qualifies one for registration with the California State Board of Pharmacy. Graduates are also encouraged to complete the Pharmacy Technician Certification Exam, the nationally recognized certification exam for pharmacy technicians.

LENGTH AND KIND OF PROGRAM

General education and Pharmacy technician classes are scheduled on the college campus. Correlated clinical experiences take place in selected hospitals and community pharmacies throughout the area. This broad-based program is especially suited for those students who may later choose to pursue higher education in health care areas. Courses are taught by practicing registered pharmacists and pharmacy technicians and are offered during the day and evening.

WRITING PROFICIENCY REQUIREMENT:

Completion of ENGL 50A and ENGL 50B with grades of Credit or "C" or higher, or earning a score on the Writing Proficiency Test sufficient for placement in ENGL 52.

MATHEMATICS PROFICIENCY REQUIREMENTS:

This requirement can be met by one of the following options:

Earn a score on the Basic Math Readiness test sufficient for placement in a course above the level of MATH 40 or Completion of MATH 40 with a grade of Credit or "C" or higher, or For other options see your counselor.

READING PROFICIENCY REQUIREMENTS

The requirement can be met by one of the following options:

Successfully complete the Reading Proficiency Test at the 12th grade level. The Reading Proficiency Test may be taken no more than once each semester.

Completion of READ 54 with a grade of Credit or "C" or higher.

For other options see your counselor.

HEALTH

Employment in this field requires applicants to have good vision, hearing, and the ability to communicate orally. Applicants must present evidence of physical fitness and ability to perform tasks required of a pharmacy technician. Lab, x-ray and immunization records meeting the standards of the clinical site must be completed after acceptance into the program.

EXPENSES

Students are expected to purchase a student body card. Enrollment fees, project fees, uniforms, books, and supplies will cost approximately \$1,000.00. Students are responsible for their own living accommodations, uniform laundry, and transportation to selected hospitals and clinics.

ATTENDANCE AND SCHOLARSHIP

All students are expected to observe the attendance requirements of the college and of the Pharmacy Technician Program. To remain in the program, the student must maintain a "C" or higher in each required course.

CRIMINAL BACKGROUND CHECKS

Clearance of a criminal background check may be required prior to clinical placement. Students who do not clear agency requirements are not eligible for clinical placement and will, consequently, be ineligible to continue in the course. If there is any concern regarding clearance of a criminal background check, please contact the Health Occupations Division for additional information.

REQUIRED DOCUMENTATION

1. Submit proof of High School graduation or equivalent.
2. Submit an official transcript of all college work to the Admissions and Records Office and a copy to the Health Occupations Division.
3. Submit assessment test scores for English, Reading, and Math prior to enrolling in PHAR 62. If you have not taken these tests, proof of clearance by course work must appear on your college transcript. If you do not have course work or test scores to submit, apply to Cerritos College, obtain a student number, take the assessment/placement test at the Assessment Center.
4. It is advised that you make an appointment with a counselor to review test scores and college work. To make an appointment with a counselor, call (562) 860-2451, Ext. 2231.

5. Prior to enrolling in PHAR 90 and PHAR 95, you must obtain a valid CPR card for Basic Life Support (Course Level "C" or C.P.R. for Health Care Providers), offered through the Heart Association or the American Red Cross prior to the first clinical experience.

**The program has made every reasonable effort to determine that everything stated in the information sheet is accurate. Matters contained herein are subject to change without notice by the administration of the department for reasons related to student enrollment, level of financial support, or for any reason at the discretion of the Program. The Program further reserves the right to add, amend, or repeal any of the rules, regulations, policies, and procedures, consistent with applicable laws.

CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES		UNITS
HO 56	Medication Calculations	1
PHAR 50	Pharmaceutics	1.5
PHAR 60	Pharmacy Introduction	2
PHAR 60L	Pharmacy Skills Lab Introduction	1
PHAR 62	Pharmacy Operations I	.5
PHAR 63	Pharmacy Operations II	3
PHAR 64	Pharmacy Operations III	2
PHAR 81	Over-The-Counter Products	3
PHAR 83	Pharmacy Technician Pharmacology I	3
PHAR 85	Pharmacy Technician Pharmacology II	3
PHAR 90	Clinical Experience I	3
PHAR 95	Clinical Experience II	5
MA 161	Medical Terminology	3
or A&P 120	Introduction to Anatomy and Physiology	4

Optional:

PHAR 73/74	Pharmacy Technician Occupational Work Experience	3-4
TOTAL CERTIFICATE REQUIREMENT		31/33

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Pharmacy Technician. For an AA Degree, a student must also take electives and general education to achieve a minimum of 60 units. See Cerritos College Graduation Requirements.

CAREER OPPORTUNITIES: Employment as a Pharmacy Technician in community or hospital pharmacy assisting registered pharmacist in the performance of assigned duties.

See Cerritos College Graduation Requirements.

PHILOSOPHY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY

PHIL 100	Introduction to Philosophy	3

California State University – Los Angeles

PHIL 106	Introduction to Logic	3

Students are advised to complete ENGL 103 as their CSU GE Critical Thinking Requirement. This will meet a graduation requirement at CSULA as the prerequisite for the writing proficiency requirement.

California State University – Long Beach

PHIL 100	Introduction to Philosophy	3
or PHIL 102	Introduction to 20th Century Philosophy	3

University of California – Irvine

NOTE: In fulfillment of the requirements below, a single course may be used only once.

PHIL 106	Introduction to Logic	3
PHIL 201	Introduction to 20th Century Philosophy	3

At least one course from each area, A-D:

A)		
ENGL 100	Freshman Composition	4
ENGL 101	Critical Thinking Literature	3
ENGL 102	Freshman Composition and Literature	3
ENGL 103	Critical and Argumentative Writing	3
PHIL 103	Philosophical Reasoning:	
	Critical thinking in Philosophy	3
PSYC 103	Critical Thinking in Psychology	3
SPCH 235	Fundamentals of Argumentation and Persuasion	3

B)		
ENGL 230A	Introduction to American Literature	3
ENGL 230B	Introduction to American Literature	3
ENGL 232	Readings In Poetry	3
ENGL 233	Readings in the Novel	3
ENGL 235	Readings in the Drama	3
ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3
ENGL 248A	Masterpieces of World Literature	3
ENGL 248B	Masterpieces of World Literature	3

C)		
HIST 102	Political and Social History of the U.S.	3
HIST 103	Political and Social History of the U.S.	3
HIST 210	Post WWII History	3
HIST 241	Western Civilization	3
HIST 242	Western Civilization	3
HIST 245	World Civilization from Antiquity to 1500	3
HIST 246	World Civilization from 1500 to the Present	3

D)		
PHIL 100	Introduction to Philosophy	3
PHIL 102	Introduction to Ethics	3
PHIL 201	Introduction to 20th Century Philosophy	3

ADDITIONAL REQUIREMENTS:

FREN 202	Intermediate French	4
or GERM 202	Intermediate German	(4)
or JAPN 202	Intermediate Japanese	(4)
or SPAN 202	Intermediate Spanish	(4)

University of California – Los Angeles

PHIL 102	Introduction to Ethics	3
PHIL 103	Philosophical Reasoning:	
	Critical thinking in Philosophy	3
or PHIL 106	Introduction to Logic	(3)

University of California – Riverside

PHIL 106	Introduction to Logic	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: The philosophy major is intended for students who plan to teach philosophy, for pre-professional students in such areas as theology, law, and as a foundation for graduate studies in the areas of library science, social science, diplomacy, theoretical physical science, and specialized historical studies.

See Cerritos College Graduation Requirements.

See State University General Education List.

PHOTOGRAPHY ASSOCIATE IN ARTS DEGREE PROGRAM

MAJOR REQUIREMENTS (26 UNITS)		UNITS
DEPARTMENT REQUIREMENTS (15 UNITS)		
PHOT 100	Introductory Photography	3
PHOT 102	Intermediate Photography	3
PHOT 110	Introduction to Digital Photography	3
PHOT 160	History of Photography	3
PHOT 234	Portfolio Development	3

SELECT 8 UNITS MINIMUM COURSE WORK FROM THE FOLLOWING:

PHOT 112	Intermediate digital Photography	3
PHOT 122	Color Photography	3
PHOT 171	Occupational Work Experience in Photography	3
PHOT 200	Advanced Photography	3
PHOT 230	Portrait Photography	3
PHOT 232	Approaches to Studio Lighting	3
PHOT 240	Experimental Photography	3
PHOT 250	Contemporary Photographic Expression	3
PHOT 252	Photography of the Landscape	3
PHOT 298	Directed Studies	1
PHOT 299	Directed Studies	2

SELECT 3 UNITS MINIMUM COURSE WORK FROM THE FOLLOWING:

ART 120	Two-Dimensional Design	3
ART 192	Photoshop/Digital Imaging	3
ART 196	Web Design with Flash and Dreamweaver	3
JOUR 130	Photo Journalism	3

NOTE: 35 mm camera and film are provided by each student. Laboratory fees are also required. Refer to the class schedules for specific course fees.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

A minimum of 60 units to include: (1) the above course requirements, (2) the Associate in Arts degree general education requirements, and (3) electives as needed.

CAREER OPPORTUNITIES: Photographer for newspapers, magazines; commercial, industrial, television advertising; scientific research; portrait studio; custom photo lab technician; medical photographic technician.

See Cerritos College Graduation Requirements.

PHOTOGRAPHY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY

		UNITS
PHOT 100	Introductory Photography	3

Neither the California State University nor the University of California offer a degree in Photography. Various photography options however are available at some California State University campuses.

Additional Lower Division Major Preparation for Specific Transfer Institutions.

California State University – Fullerton

Photo communications may be selected as a concentration in the Communications major.

JOUR 100	Mass Communication in Society	3
JOUR 101	Begin Newswriting and Report	3

Creative Photography is an available concentration in the Bachelor of Fine Arts major.

Lower-Division Studio Course (Admission Requirements)

ART 110	Freehand Drawing	3
or ART 111	Intermediate Freehand Drawing	(3)
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional Design	3
ART 130B	Fundamentals of Painting	3

Creative Photography Concentration-Preparation

PHOT 102	Intermediate Photography	3
or PHOT 200	Advanced Photography	(3)
or PHOT 240	Experimental Photography	(3)
ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 112	Life Drawing	3
or ART 213	Intermediate Life Drawing	(3)
ART 116	Beginning Printmaking	3
or ART 117	Intermediate Printmaking	(3)
or ART 219	Advance Etching	(3)

Students may meet the 6 unit requirement for lower division studio courses by choosing two courses from among the following courses: PHOT 102 or 200 or 240; ART 110 or 111; ART 112 or 213; ART 116 or 117 or 219; ART 136; ART 162; ART 182A; ART 185; ART 191A; ART 231. Units taken to meet his requirement may not also be used to meet the Creative Photography Concentration-Preparation requirements above.

California State University – Long Beach

Art Photography may be selected as an option in the Art major. See the Art and Design Transfer program in the catalog, the Art transfer major sheet in Counseling or an Art counselor for core Art major requirements.

California State University – Northridge

Photojournalism may be selected as an option in the Journalism major.

ASSOCIATE IN ARTS DEGREE:

Complete the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

RECOMMENDED ELECTIVES: PHOT 102, 122, 160, 200, 234, 240, JOUR 100, 101, and 130

CAREER OPPORTUNITIES: Photographer for newspapers; magazines; advertising; scientific research; graphic design; studio and photographic laboratories; teaching.

See Cerritos College Graduation Requirements.

See State University General Education List.

OCCUPATIONAL PREPAREDNESS IN PHOTOGRAPHY VERIFICATION OF COMPLETION

The verification helps the student focus on recognizing the variety available to the novice photographer, and focusing on excellence in one or more area of specialization. Completion of this verification will prepare the student for entry-level employment in professional commercial photography.

OCCUPATIONAL PREPAREDNESS IN PHOTOGRAPHY VERIFICATION OF COMPLETION REQUIREMENTS 15 UNITS

Select 12 units from the following

PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Photography	3
PHOT/JOUR 130	Photo Journalism	3
PHOT 171	Occupational Work Experience in Photography	1
PHOT 230	Portrait Photography	3
PHOT 232	Approaches to Studio Lighting	3
PHOT 234	Portfolio Development	3
PHOT 298	Directed Studies	1
PHOT 299	Directed Studies	2

One course must be taken from the following selection

BA 100	Fundamentals of Business	3
BA 110	Advertising	3
BA 113	Legal Environment of Business	3
BUSA 100	Introduction to Accounting	3

DIGITAL PHOTOGRAPHY VERIFICATION OF COMPLETION

This verification helps the student focus on the practice of digital photography. Emphasis will be placed on achieving the ability to produce state-of-the-art digital files and prints. Completion of this verification will prepare the student for entry-level employment in the growing field of photographic media.

PHOT 110	Introduction to Digital Photography	3
PHOT 112	Intermediate Digital Photography	3
TOTAL		<u>6</u>

TRADITIONAL BLACK-AND-WHITE PHOTOGRAPHY VERIFICATION OF COMPLETION

This verification helps the student focus on the practice of traditional black-and-white photography. Emphasis will be placed on achieving the ability to produce archival prints of the highest quality using traditional wet darkroom techniques combined with advanced exposure applications. Technique is presented as a support for producing meaningful images, rather than as an end in itself.

PHOT 100	Introductory Photography	3
PHOT 102	Intermediate Photography	3
PHOT 200	Advanced Photography	3
TOTAL		<u>9</u>

FINE ART PHOTOGRAPHY VERIFICATION OF COMPLETION

This verification helps the student focus on a variety of photographic techniques and genres within contemporary fine art practice. Emphasis will be placed on achieving the ability to produce archival prints of the highest quality using both digital and traditional wet darkroom techniques. Technique is presented as a support for producing meaningful images grounded in a historical awareness of the medium. Understanding the ubiquity of photography in today's image culture is also stressed. Completion of this verification will prepare the student for successful transfer to universities offering a baccalaureate program, as well as entry-level expertise in gallery exhibition conventions.

FINE ART PHOTOGRAPHY VERIFICATION OF COMPLETION REQUIREMENTS 15 UNITS

Select 15 units from the following:

PHOT 100	Introductory Photography	3
PHOT 102	Intermediate Photography	3
PHOT 122	Color Photography	3
PHOT 160	History of Photography	3
PHOT 234	Portfolio Development	3
PHOT 240	Experimental Photography	3
PHOT 250	Contemporary Photographic Expression	3
PHOT 252	Photography of the Landscape	3
PHOT 298	Directed Studies	1
PHOT 299	Directed Studies	2

PHYSICAL EDUCATION EXERCISE SCIENCE: ATHLETIC TRAINER AIDE CERTIFICATE OF ACHIEVEMENT

DEPARTMENT REQUIREMENTS:		UNITS
A&P 120*	Introduction to Human Anatomy & Physiology	4
MA 161	Medical Terminology	3
HED 110	Community First Aid and CPR	3
PE 107	Introduction to Athletic Training	3
PE 141	Fitness and Wellness	3
PE 254	Measurement and Interpretation of Fitness	3
PE 255	Programs and Principles of Conditioning	2

PE 260	Athletic Injury Assessment and Reconditioning	2
PE 261	Athletic Injury Taping, Bandaging & Immobilization	1
PE 271A	Occupational Work Experience for Athletic Training	1

*(A&P 150 & A&P 151 or A&P 200 & A&P 201 recommended for transfer students)

TOTAL CERTIFICATE UNITS 26

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements of the Certificate of Achievement in Exercise Science: Athletic Training and complete general education requirements and electives to achieve a minimum of 60 units.

See Cerritos College Graduation Requirements.

Although many of these courses are transferable, this certificate/AA degree is nontransferable.

Please see Counselors or the respective department chairperson for additional alternatives.

EXERCISE SCIENCE: FITNESS SPECIALIST CERTIFICATE OF ACHIEVEMENT

DEPARTMENT REQUIREMENTS: UNITS

HED 110	Community First Aid and CPR	3
HED 200	Nutrition for Health, Fitness and Physical Conditioning	3
PE 107	Introduction to Athletic Training	3
PE 141	Fitness and Wellness	3
PE 254	Measurement and Interpretation of Fitness	3
PE 255	Programs and Principles of Conditioning	3
PE 271B	Occupational Work Experience for Fitness	1
A&P 120*	Introduction to Human Anatomy & Physiology	4
BA 100	Fundamentals of Business	3

*(A&P 150 & A&P 151 or A&P 200 & A&P 201 recommended for transfer students)

TOTAL CERTIFICATE UNITS 26

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements of the Certificate of Achievement in Exercise Science: fitness and complete general education requirements and electives to achieve a minimum of 60 units.

See Cerritos College Graduation Requirements.

Although many of these courses are transferable, this certificate/AA Degree is nontransferable.

Please see Counselors or respective department chairperson for additional alternatives.

PHYSICAL EDUCATION ASSOCIATE IN ARTS DEGREE

In order to qualify for an AA degree in Physical Education the following requirements must be met:

- 1) Completion of the AA degree general education and proficiency requirements;
- 2) Completion of a minimum of 60 degree applicable units;
- 3) Completion of at least 26 units of physical education coursework from the following:
 - a. Required Core Courses 17/23 Units
 - b. Required Activity Courses 6 Units
 - c. Required PE Elective Courses Units

See Cerritos College Graduation Requirements.

REQUIRED CORE COURSES UNITS

PE 100	Introduction to Physical Education and Sport	3
PE 107	Introduction to Athletic Training	3
PE 141	Fitness and Wellness	3
HED 110	First Aid and CPR	3
A&P 130	Human Anatomy and Physiology	5
or A&P 200	Human Anatomy	(5)
and A&P 201	Human Physiology	(5)

REQUIRED ACTIVITY COURSES (6 UNITS)

Activity courses must include at least 1 (one) unit from each of the following 5 (five) areas, for a total of 6 (six) units.

(1) Aerobic Fitness

PE 121	Adapted Cardiovascular Exercise	1
PE 131	Walking for Fitness	1
PE 132A	Low Impact Aerobics	1.5
PE 132B	Aerobic Activities	1.5
PE 133	Step Aerobics	1.5
PE 134	Water Aerobics	1
PE 143	Personal Fitness Program	1
PE 145	Basic Training and Physical Conditioning	1

(2) Fitness

PE 122	Adapted Strength Training	1
PE 130	Stretch and Relaxation	1
PE 135A	Circuit Weight Training, Beginning	1
PE 135B	Circuit Weight Training, Intermediate/Advanced	2
PE 138	Yoga	1
PE 139	Pilates Conditioning	1
PE 146	Weight Management	1.5

(3) Aquatics

PE 123	Adapted Swimming	1
PE 150A	Swimming, Beginning	1
PE 150B	Swimming, Intermediate/Advanced	2
PE 170	Water Polo	2

(Participation in Intercollegiate Swimming or Water Polo will satisfy this requirement)

(4) Team Activities

PE 124	Wheelchair Activities	1
PE 171A	Softball	1
PE 171B	Softball, Intermediate/Advanced	2
PE 171C	Slow-Pitch Softball	1
PE 172A	Volleyball, Beginning	1
PE 172B	Volleyball, Intermediate/Advanced	2
PE 175A	Baseball, Beginning	1
PE 175B	Baseball, Intermediate/Advanced	2
PE 176A	Beginning Basketball	1
PE 176B	Basketball, Advanced	2
PE 177	Flag Football	1
PE 178	Football, Intermediate/Advanced	2
PE 179A	Soccer, Beginning	1
PE 179B	Soccer, Intermediate/Advanced	2
(Participation in Intercollegiate Athletics excluding swimming and water polo will fulfill this requirement)		

(5) Individual Activities

PE 120	Sedentary Activities for Students with Disabilities	1
PE 151	Wrestling	1
PE 153A	Backpacking, Beginning	2
PE 153B	Backpacking, Advanced	2
PE 154A	Badminton, Beginning	1
PE 154B	Badminton, Intermediate/Advanced	2
PE 155A	Bowling, Beginning	1
PE 155B	Bowling, Intermediate/Advanced	1
PE 156A	Golf, Beginning	1
PE 156B	Golf, Intermediate/Advanced	2
PE 158A	Racquetball, Beginning	1
PE 158B	Racquetball, Intermediate/Advanced	2
PE 159A	Tennis, Beginning	1
PE 159B	Tennis, Intermediate/Advanced	2
PE 160	Personal Self Defense	1
PE 180	Introduction to Dance Movement	3
PE 181	Introduction to Dance Cultures of the World	2
PE 182A	Dance, Modern, Beginning	2
PE 182B	Dance, Modern, Intermediate	2
PE 186A	Beginning Ballet	2
PE 186B	Intermediate Ballet	2
PE 193	Introduction to Ballroom Dance	2
PE 195	Commercial Dance	2
PE 196	Latin Social Dance	2

PE ELECTIVE COURSES (3 UNITS MINIMUM)

PE 101A	Sports Officiating for Football	1
PE 101B	Sports Officiating for Men's and Women's Basketball	1
PE 102A	Sports Officiating for Baseball	1
PE 102B	Sports Officiating for Men's and Women's Track & Field	1
PE 105	Student Athlete in Society	2
PE 106	Women in Sports	3
PE 125	Water Safety Instructor (WSI)	2
PE 191	History of Dance	3
PE 192	Dance and Digital Technology	3
PE 253	Sports Psychology	3
PE 254	Measurement and Interpretation of Fitness	3
PE 255	Programs and Principles of Conditioning	3
PE 260	Athletic Injury Assessment and Reconditioning	2
PE 261	Athletic Injury Taping, Bandaging & Immobilization	1

HED 200	Nutrition for Health, Fitness and Physical Conditioning	3

RECOMMENDED GENERAL EDUCATION ELECTIVES

HED 100	Contemporary Health Problems	3
PSYC 101	General Introduction to Psychology	3
SOC 101	Introductory Sociology Principles	3

PHYSICAL EDUCATION TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

HED 110	Community First Aid and CPR	3
PE 100	Introduction to Physical Education and Sport	2

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

Kinesiology Major

A&P 130	Human Anatomy and Physiology	5
or A&P 150	Introduction to Anatomy	4
and A&P 151	Introduction to Physiology	4
or A&P 200	Human Anatomy and Physiology	5
and A&P 201	Human Anatomy and Physiology	5
PE 100	Introduction to Physical Education and Sport	2

Pre-Physical Therapy Option Add

BIOL 200	Principles of Biology	5
PHY 101	General Physics	4
or CHEM 111	General Chemistry	5

Options available are Athletic Training Education, Dance Concentration, Fitness Director, Pre-Physical Therapy and Teaching. Most options require additional physical activity units. See a counselor for additional option requirements.

California State University – Fullerton

Kinesiology Major

A&P 120	Introduction to Human Anatomy and Physiology	4

Select six (6) units from the following:

- Fitness (1 unit)
- Aquatics (1 unit)
- Martial Arts/Combatives (1 unit)
- Individual Sports (1 unit)
- Racquet Sports (1 unit)
- Team Sports (1 unit)

California State University – Long Beach

Kinesiology Major

A&P 151	Introduction to Physiology	4
or A&P 201	Human Anatomy and Physiology	5
A&P 150	Introduction to Anatomy	4
or A&P 200	Human Anatomy	5
PSYC 101	General Introductory Psychology	3

ADDITIONAL REQUIREMENTS:

Athletic Training Option

CHEM 100	Introductory Chemistry	4
or CHEM 111	General Chemistry	5
HO 152	Normal and Therapeutic Nutrition	3
HED 100	Contemporary Health Problems	3
PE 107	Introduction to Athletic Training	3
PHYS 101	General Physics	4
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	4

Exercise Science Option

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4

Take additional elective units from courses listed below. You will be required to take total of 18 units (minimum 6 units from KIN upper division courses after transfer).

BIOL 120	Introduction to Biological Science	4
BIOL 201	Principles of Biology	5
BIOL 200	Principles of Biology	5
HO 152	Normal and Therapeutic Nutrition	3
MA 161	Medical Terminology	3

Fitness Option

HO 152	Normal and Therapeutic Nutrition	3

Take 7 physical activity units from a minimum of two different categories. See counselor for details.

Kinesiotherapy Option

MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	4
PSYC 241	Introduction to Psychobiology	3
PSYC 220	Research Methods	4
HED 110	Community First Aid and CPR	3

Take 6 physical activity units from a minimum of two different categories. See counselor for details.

Physical Education Option

PE 160	Personal Self Defense	1
PE 125	Water Safety Instructor	2

Sport Psychology and Coaching Option

HO 152	Normal and Therapeutic Nutrition	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	4
PSYC 241	Introduction to Psychobiology	3
PSYC 220	Research Methods	4

Take 2 physical activity units. See counselor for details.

All one unit P.E. activity courses will be accepted for this major. Options available: Adapted Physical Education, Elementary School Physical Education, Secondary School Physical Education, Bachelor of Science in Kinesiology, Exercise Science.

California State University – Northridge

Kinesiology Major

BIOL 120	Introduction to Biological Science	4
A&P 150	Introduction to Human Anatomy	4
or A&P 200	Human Anatomy	5
and A&P 201	Human Physiology	5
A&P 151	Introduction to Human Physiology	4
or A&P 200	Human Anatomy	5
and A&P 201	Human Physiology	5
MATH 112	Elementary Statistics	4

ADDITIONAL REQUIREMENTS:

Physical Education Option

HED 110	Community First Aid and CPR	3

Exercise Science Option

CHEM 111	General Chemistry	5
or CHEM 110	Elementary Chemistry	4
PHYS 101	General Physics	4

Athletic Training Option

BIOL 120	Introduction to Biological Science	4
A&P 150	Introduction to Human Anatomy	4
or A&P 200	Human Anatomy	5
and A&P 201	Human Physiology	5
A&P 151	Introduction to Human Physiology	4
or A&P 200	Human Anatomy	5
and A&P 201	Human Physiology	5
HO 152	Normal and Therapeutic Nutrition	3
MATH 114	College Algebra	4
or Math 150	Precalculus Mathematics	4
or Math 112	Elementary Statistics	4
PHYS 101	General Physics	4
PSYC 101	General Intro to Psychology	3

Complete above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Coach, fitness director YMCA and YWCA, outdoor education programs, instructor in private and public camps, rehabilitation centers, teacher/athletic trainer, sports medicine clinics, sports education, community, county, state recreation departments, credential teacher (elementary or secondary).

See Cerritos College Graduation Requirements.

See State University General Education List.

EXERCISE SCIENCE ASSOCIATE IN ARTS DEGREE

REQUIRED COURSES

CORE REQUIREMENTS (19 UNITS)		UNITS
HED 110	Community First Aide and CPR	3
PE 107	Introduction to Athletic Training	3
PE 141	Fitness and Wellness	3
PE 254	Measurement and Interpretation to Fitness	3
PE 255	Programs and Principles of Conditioning	3
PE 271	Occupational Work Experience for Athletic Training and Fitness	1
AP 120*	Anatomy and Physiology	4

*(AP 150 & AP 151 or AP 200 & AP 201 recommended for transfer students)

Completion of all courses (7 units) in either the Fitness Emphasis or the Athletic Training Emphasis as listed below:

Fitness Emphasis

BA 100	Fundamentals of Business	3
HED 200	Nutrition For Health, Fitness and the Physical Conditioning	3
PE 271B	Occupational Work Experience for Fitness	1

Athletic Training Emphasis

MA161	Medical Terminology	3
PE 260	Athletic Injury Assessment and Reconditioning	2
PE 261	Athletic Injury Taping, Bandaging & Immobilization	1
PE 271A	Occupational Work Experience for Athletic Training	1

At least two physical education activity courses from department approved list for a total of 3 units.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete (1) core requirement, (2) all courses in the Fitness Emphasis or the Athletic training emphasis (3) two physical education activity courses (4) the Associate in Arts Degree general education requirement.

PHYSICAL THERAPIST ASSISTANT PROGRAM ASSOCIATE IN ARTS DEGREE

The Physical Therapist Assistant is a skilled technical health worker who performs physical therapy interventions under the direction of a Physical Therapist. This program is accredited by the Commission on Accreditation in Physical Therapy Education - American Physical Therapy Association. Successful completion of the Physical Therapist Assistant Program and Associate in Arts Degree qualifies students to take the National Examination for Physical Therapist Assistants.

LENGTH AND KIND OF PROGRAM

The program is four semesters in length. General education and Physical Therapist Assistant classes are scheduled on the college campus. Correlated clinical experiences begin the second semester and continue throughout the program. These experiences take place at selected hospitals and clinics in Los Angeles, Orange, Riverside, and San Bernardino Counties.

ADMISSION PROCEDURES AND REQUIREMENTS

- Academic Requirements
 - Acceptable scores on College Placement Tests for English and Mathematics and Reading clearance or deficiencies removed
 - A&P 150, A&P 151 with grades of "C" or higher
 - All deficiencies in academic requirements must be removed. An overall Grade Point Average of 2.0 must be attained prior to admission to the Physical Therapist Assistant Program, and a grade of "C" or higher must be attained for each general education and required course. Applicants who have not completed 1b and 1c will not be considered for admission.
- Health
 - Applicants must present evidence of physical fitness and ability to perform tasks required of a Physical Therapist Assistant. Lab, x-rays and immunization records meeting hospital standards must be completed after acceptance into the program.

SELECTION PROCEDURES

- Academic Evaluation
 - All required documents, including progress reports, transcripts, and work verification from Physical Therapist employer must be in the Health Occupations Division Office by April 15.
 - No student whose college grade point average is below 2.0, or who has not cleared English, Math, or Reading deficiencies can be considered. These are considered minimum standards of academic preparation.
 - Additional consideration will be given for work experience in the field of physical therapy or related areas, and for students who have completed additional medical or science related classes.

EXPENSES

Students are expected to purchase a student body card. Enrollment fees, project fees, uniforms, books, and supplies which will cost approximately \$1200.

Students are responsible for their own living accommodations, uniform laundry, and transportation to selected hospitals and clinics.

ATTENDANCE AND SCHOLARSHIP

All students are expected to observe the attendance requirements of the College and of the Physical Therapist Assistant Program. To remain in the Program, the student must maintain a "C" or higher in each required and general education course. Lab coats are required in all hospital lab classes (PTA 126L, 236L, 246L).

CRIMINAL BACKGROUND CHECK

Clinical placements are a mandatory component of the curriculum and may require clearance of a criminal background check. Students who do not clear agency requirements are not eligible for clinical placement and will, consequently, be ineligible to continue in the program. If there is any concern regarding clearance of a criminal background check, please contact the Health Occupations Division for additional information.

PROCEDURE FOR APPLICATION (To be completed in order as listed)

1. Complete application to the program. This can be obtained in either the Health Occupations Division (562) 860-2451, Ext. 2550, or Counseling Office, Ext. 2231. The application must be returned by April 15.
2. Submit two official transcripts of all college work. Submit one copy to the Health Occupations Division and one copy to the Admissions and Records Office.
3. Submit assessment test scores for English, Reading, and Math with your application by April 15. If you have not taken these tests, proof of clearance by course work must appear on your college transcript. If you do not have course work or test scores to submit, apply to Cerritos College, obtain a student number, take the assessment/placement test at the Assessment Center and record your test date on your program application by April 15. Students are accepted only in the Fall semester.
4. It is advised that you make an appointment with a counselor to review test scores and college work. To make an appointment with a counselor, call (562) 860-2451, Ext. 2231.
5. As soon as all of the above material is received and reviewed, you will be notified of acceptance or non-acceptance after May 1. If you are completing admission requirements during the spring session, a "work-in-progress" report must be submitted to the Health Occupations Division at the end of the first four weeks of the course.
6. If you are accepted into the Physical Therapist Assistant Program, you must present a valid CPR card for the Healthcare Provider offered through the Heart Association prior to the first hospital experience (PTA 126). Card must be valid throughout the program.

ASSOCIATE IN ARTS DEGREE

A total of 69 units including the following requirements must be completed to qualify for the AA Degree:

A&P 150	Human Anatomy	4
A&P 151	Human Physiology	4
ENG 100	Freshman Composition	4
MA 161	Medical Terminology	3
PSYC 101	General Introductory Psychology	3
SPCH 100	Oral Communication	3
or SPCH 130	Fundamentals of Speaking	(3)

Additional General Education Requirements 6 units

FIRST YEAR
First Semester

PTA 110	Introduction to Physical Therapy	4
PTA 120	Kinesiology	4

Second Semester

PTA 125	Pathology	3
PTA 126	Clinical Practicum I	4
PTA 127	Soft Tissue Interventions	2
PTA 128	Physical Therapy Aspects of Growth and Development	3
PTA 235	Neurology	3

Summer Semester

PTA 129	Physical Therapy Aspects of Aging and Integumentary Management	1.5

SECOND YEAR
First Semester

PTA 230	Therapeutic Exercise	4
PTA 233	Prosthetics and Orthotics for Allied Health Professionals	2
PTA 236	Clinical Practicum II	4

Second Semester

PTA 240	Activities of Daily Living	2
PTA 245	Advanced Modalities	3
PTA 246	Clinical Affiliation	4

See Cerritos College Graduation Requirements.

**PHYSICS
TRANSFER PROGRAM**
**COMMON LOWER DIVISION PREPARATION
FOR CALIFORNIA STATE UNIVERSITY
AND UNIVERSITY OF CALIFORNIA**
UNITS

PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
MATH 220	Analytic Geometry and Calculus III	4

**ADDITIONAL LOWER DIVISION MAJOR PREPARATION
FOR SPECIFIC TRANSFER INSTITUTIONS**
**California State University – Dominguez Hills
(General Physics Option)**

PHYS 203	Engineering Physics	4
CHEM 111	General Chemistry	5
CIS 171	Visual Basic Programming	3

Note: Physics articulation is approved as a sequence only

California State University – Fullerton

PHYS 203	Engineering Physics	4
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5

California State University – Long Beach

PHYS 203	Engineering Physics	4
BIOL 120	Introduction to Biological Science	4
or BIOL 200	Principles of Biology	5
and BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5

California State University – Los Angeles

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
*MATH 240	Calculus and Differential Equations	4

*Math 240 is required for BA in Physics only. Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State Polytechnic University – Pomona

PHYS 203	Engineering Physics	4
BIOL 120	Introduction to Biological Science	4
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CIS 180	Programming in C/C++	3
or CIS 178	Programming in Fortran	(3)
MATH 240	Calculus and Differential Equations	4

University of California – Irvine

PHYS 203	Engineering Physics	4
CIS 180	Programming in C/C++	3
or CIS 280	Object-Oriented Programming in C++	(3)
MATH 240	Calculus and Differential Equations	4

Required courses: one year calculus and one year of calculus-based physics with laboratory for engineering and Physics major. Concentrations are offered in: Applied Physics, Biomedical Physics, Computational Physics, Philosophy of Physics, Physics Education and Astrophysics. See counselor for specific concentration requirements.

University of California – Los Angeles

PHYS 203	Engineering Physics	4
CHEM 111	General Chemistry	5
MATH 240	Calculus and Differential Equations	4

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the common lower division requirements and (2) the Associate in Arts Degree general education requirements.

Career Opportunities: Physics graduates with their Bachelor's Degrees qualify for graduate studies in Physics. Physicists find rewarding careers in teaching Physical Sciences, medicine, and industrial and governmental scientific endeavors.

See Cerritos College Graduation Requirements.

See California State University General Education List.

PLASTICS MANUFACTURING TECHNOLOGY (PMT) VERIFICATION OF COMPLETION

In order to obtain a Plastics Specialty, the student is encouraged to complete the required units for the Plastics Manufacturing Technology degree. The five to seven units for the specialty may come from the units completed toward the degree or from additional courses outlined below. Students with previous coursework may also be considered for certificates upon providing transcripts for review, and consent of the department.

Plastics Manufacturing Technology Specialty

PMT 63L	Specialty Plastics Lab	.5
PMT 68	Plastics Materials & Processes	2.5
PMT 100	Plastics I	2.5
		5.5

Inspection and Testing Specialty

PMT 63L	Specialty Plastics Lab	.5
PMT 100	Plastics I	2.5
MET 120	Nondestructive Testing	3
		6

Injection Molding Specialty

PMT 59	Injection Molding I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 100	Plastics I	2.5
		5.5

Moldmaking Specialty

PMT 59	Injection Molding I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 65	Moldmaking	3
		6

Fiberglass Specialty

PMT 61	Fiberglass I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 67	Fiberglass II	2.5
		5.5

Composites Specialty

PMT 61	Fiberglass I	2.5
PMT 67	Fiberglass II	2.5
PMT 70	Composites Technology	2.5
		7.5

Fiberglass/Composite Repair Specialty

PMT 53	Composite Repair	3
PMT 61	Fiberglass I	2.5
PMT 67	Fiberglass II	2.5
		8

Tooling Specialty

PMT 63L	Specialty Plastics Lab	.5
PMT 72	Tooling for Plastics	2.5
PMT 221	Modelmaking	2.5
		5.5

PLASTICS/COMPOSITES MANUFACTURING TECHNOLOGY CERTIFICATE OF ACHIEVEMENT PROGRAM

CORE

	UNITS	
PMT 100	Plastics I	2.5
TM 50	Technical Mathematics	3
BCOM 147	Business Communications	3
BCOM 148	Effective Business Presentations	3

COMPOSITES MANUFACTURING OPTION

PMT 61	Fiberglass I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 67	Fiberglass II	2.5
PMT 68	Plastics Materials and Processes	2.5
PMT 70	Composites Technology	2.5
ENGT 116	Blueprint Reading for Machine Trades	2

Total Units (including CORE) 24

COMPOSITE INSPECTION OPTION

PMT 61	Fiberglass I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 67	Fiberglass II	2.5
PMT 70	Composites Technology	2.5

Total Units (including CORE) 25

PLASTIC/COMPOSITE TOOL DESIGN OPTION

PMT 65	Moldmaking I	3
PMT 72	Tooling for Plastics	2.5
ENGT 138	AutoCAD	4
ENGT 258	Design and Production Technology with AutoCad	4
ENGR 123	Descriptive Geometry	3

Total Units (including CORE) 28

PLASTICS MANUFACTURING OPTION

PMT 4	Plastics III	2.5
PMT 59	Injection Molding I	2.5
PMT 60	Extrusion	3
PMT 61	Fiberglass I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 64	Plastics II	2.5
PMT 66	Hydraulics and Pneumatics	3
PMT 68	Plastics Materials and Processes	2.5
PMT 71	Plastics IV	2.5
PMT 72	Tooling for Plastics	2.5

Total Units (including CORE) 33

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include: (1) the above requirements for a specific Certificate of Achievement, (2) ENGT 116, (for Composite Manufacturing, Composite Inspection and Plastics Manufacturing Options Only), (3) the Associate in Arts Degree general education requirements, and (4) electives as needed.

RECOMMENDED ELECTIVES: PMT 98-99 (Directed Studies)

CAREER OPPORTUNITIES: Upon completion of the program, a student is prepared to work in areas of injection, compression and extrusion molding, mold laminating, plastic mold design and fabrication, as well as testing equipment set up, maintenance, and tooling.

See Cerritos College Graduation Requirements.

POLITICAL SCIENCE TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

	UNITS
POL 101 American Political Institutions	3
or POL 201 Introduction to Political Science and American Government	(3)

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

No lower division courses are specified as required for the Political Science major at CSUDH. Students planning to transfer to CSUDH and major in Political Science are recommended to take POL 101, POL 210, and POL 220 in preparation for upper division coursework in the major.

California State University – Fullerton

In addition to the common lower division major preparation listed above, the Political Science major at CSUF also includes a lower division Study of Politics or Methods and Skills in Political Science course not offered at Cerritos College.

California State University – Long Beach

Students planning to transfer to CSULB and major in Political Science should select POL 101.

CONCENTRATION IN GLOBAL POLITICS:

POL 210 Comparative Government	3
or POL 220 International Relations	(3)

California State University – Los Angeles

PSYC 210 Elementary Statistics	4

Students planning to transfer to CSULA and major in Political Science should take both POL 101 and POL 201. In addition, students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

University of California – Irvine

Please see the website www.assist.org for information about the Political Science major at UCI, including appropriate lower division courses.

University of California – Los Angeles

POL 210 International Relations	3
POL 220 Comparative Government	3

In addition to the lower division major preparation already listed, the Political Science major at UCLA requires a lower division Introduction to Statistical Reasoning class, and either an Introduction to Political Theory or a Politics and Strategy course, which are not offered at Cerritos College. Students may need to take the courses at another community college to be competitive for admission to the major.

University of California – Riverside

POL 210	International Relations	3
POL 220	Comparative Government	3

RECOMMENDED:

MATH 112	Elementary Statistics	4

Students planning to transfer to UCR and major in Political Science should select POL 101. The Political Science major at UCR also includes a lower division Modern Political Ideologies course not offered at Cerritos College. In addition to the traditional Political Science major, UCR offers Political Science majors with emphases in Administrative Studies, International Affairs, Law and Society and Public Service. Please see a counselor or the website www.assist.org for more information on appropriate courses for those emphases.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the common lower division preparation plus other courses selected in consultation with a counselor to provide for the 18 unit minimum, (2) the Associate in Arts degree general education requirements, and (3) electives as needed for a total of at least 60 units.

CAREER OPPORTUNITIES: Diversified positions in government at the local, state, and federal levels, military, Foreign Service, private business and industry, upper division work leads into advanced degrees in law, journalism, public administration, international relations.

See Cerritos College Graduation Requirements.

See State University General Education List.

**PRE-CHIROPRACTIC
CAREER PATHWAY**

The following curriculum does not lead to an Associate in Arts Degree in Pre-Chiropractic. However students could fulfill requirements for a Natural Sciences Degree by completing a minimum of 18 units including 2 Biological Sciences, 2 Physical Sciences and a math course beyond Intermediate Algebra.

Admission to most chiropractic colleges is based primarily on the candidates' academic achievement in a college program. Each prospective candidate must have completed course work, which could transfer to an accredited four-year college. All courses considered for acceptance must have obtained at an institution or institutions accredited by a nationally recognized agency.

**COMMON LOWER DIVISION PREPARATION
FOR CHIROPRACTIC SCHOOLS:**

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	3
PHYS 101	General Physics	4
PHYS 102	General Physics	4
PSYC 101	General Introductory	3

**ADDITIONAL LOWER DIVISION PREPARATION
FOR SPECIFIC INSTITUTIONS:****Cleveland Chiropractic College of Los Angeles**

www.clevelandchiropractic.edu

Applicants must have completed a minimum of 90 semester units. A minimum of 48 semester units must be the specified science and general education requirements. Students who hold a degree leading to licensure/registration in a health science discipline at the baccalaureate level or above with a grade point average of 2.50, or who hold a baccalaureate degree with an earned grade point average of at least 3.25 receive preference for admission.

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
Additional Social Sciences and or Humanities		15

Southern California University of Health and Sciences**Formerly Los Angeles College of Chiropractic**

www.scuhs.edu

Applicants must have completed a minimum of 90 semester units. A baccalaureate degree is preferred, although not required. A grade of "C" or higher in each prerequisite course. Applicants must have an overall grade point average (GPA) of 2.50 or higher. All courses must qualify as transferable to a Baccalaureate program.

Biochemistry may be substituted for the second semester of Organic Chemistry.

Biomechanics, Kinesiology, Statistics, or Exercise Physiology may be substituted for second semester of the Physics requirement.

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
Additional Social Sciences and or Humanities		15

THE REQUIREMENTS FOR CHIROPRACTIC SCHOOLS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

CAREER OPPORTUNITIES: Job prospects are expected to be good for persons who enter the practice of chiropractic. Employment of chiropractors is expected to grow faster than the average for all occupations, through the year 2014 as consumer demand for alternative healthcare grows. The rapidly expanding older population, with their increased likelihood of mechanical and structural problems, also will increase demand. Demand for chiropractic treatment is also related to the ability of patients to pay, either directly or through health insurance. In this occupation, replacement needs arise almost entirely from retirements. Chiropractors usually remain in the occupation until they retire; few transfer to other occupations. Establishing a new practice will be easiest in areas with a low concentration of chiropractors.

PRE-DENTAL CAREER PATHWAY

The following curriculum does not lead to an Associate in Arts Pre-Dental Degree. However, students could fulfill requirements for a Natural Sciences Degree by completing 18 units of science and math coursework to include a minimum of 2 Biological Sciences, 2 Physical Sciences and a math course beyond Intermediate Algebra.

Admission to dental school is highly competitive. Most schools of dentistry admissions are based primarily on the candidates' academic achievement in a college program and performance in the Dental Admissions Test (DAT). The DAT measures general academic ability, reading comprehension, vocabulary, analytical thinking, comprehensive scientific information and perceptual ability. Because most of the applicants being admitted to dental schools possess a bachelor's degree, students are advised to integrate the dental school requirements into a program that will lead to a bachelor's degree in a major of their choice. However, there are Dental Schools which consider 90 semester units (60 units lower division and 30 units of upper division coursework) with a very competitive grade point average (GPA) as the minimum requirement for admission.

COMMON LOWER DIVISION PREPARATION FOR DENTAL SCHOOLS

		UNITS
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
ENGL 100	Freshman Composition	4
ENGL102	Freshman Composition and Literature	3
or ENGL 103	Critical/Argumentative Writing	(3)
PHYS 101	General Physics	4
and PHYS 102	General Physics	4
or PHYS 201	Engineering Physics	(4)
and PHYS202	Engineering Physics	(4)

PSYC 101, General Introductory Psychology is required by many dental schools.

ADDITIONAL SCIENCES: It is strongly suggested that students take additional science courses at the university, such as Anatomy/Physiology/Human Biology, Biochemistry, Botany, Cellular Biology, Comparative Anatomy, Embryology, Genetics, Histology, Microbiology, and Molecular Biology. Some of these courses may be considered additional requirements or elective coursework.

MATHEMATICS: The mathematics requirement beyond trigonometry will be determined by the major course of study the student elects to pursue.

RECOMMENDED COURSEWORK: Lower division courses that may be taken are College Algebra/Calculus/Statistics, Business Management, Accounting/Economics, Technical Writing, Speech, Sociology/Anthropology, Foreign Language and Ceramics/Sculpture.

For expanded information about dental school requirements, students are encouraged to consult "ASDA Handbook: A Resource Guide for Predental Students". or on the Internet for the American Dental Education Association at www.adea.org or Dental Admission Test (DAT) information at www.ada.org/prof/ed/testing/dat/index.asp

For accurate programming and more school-specific detailed information concerning the California schools of dentistry, look up the dental school website:

Loma Linda University
www.llu.edu/llu/dentistry
 University of California, Los Angeles
www.uclasod.dent.ucla.edu/
 University of California, San Francisco
www.dentistry.ucsf.edu/ and/or www.assist.org
 University of the Pacific, San Francisco Campus
www.dental.pacific.edu/
 University of Southern California
www.usc.edu/hsc/dental

THE REQUIREMENTS FOR DENTAL SCHOOLS ARE SUBJECT TO CHANGE WITHOUT ADVANCE NOTICE.

CAREER OPPORTUNITIES: Dentist diagnose and treat problems with teeth and tissues in the mouth, along with giving advice and administering care to help prevent future problems. Most dentists are general practitioners, handling a variety of dental needs. Other dentists practice in any of nine specialty areas. Orthodontist, the largest group of specialists, prevents or corrects irregularities of the teeth. The next largest group, oral and maxillofacial surgeons, operates on the mouth and jaws. The remainder may specialize as pediatric dentists (focusing on dentistry for children); periodontists (treating gums and bone supporting the teeth); prosthodontists (replacing missing teeth with permanent fixtures, such as crowns and bridges, or with removable fixtures such as dentures); or oral and maxillofacial radiologists (diagnosing diseases in the head and neck through the use of imaging technologies). Although employment growth will provide some job opportunities, most jobs will result from the need to replace the large number of dentists projected to retire. Median annual earnings of salaried dentists were \$136,960 in May 2006. Earnings vary according to number of years in practice, location, hours worked, and specialty. Self-employed dentists in private practice tend to earn more than do salaried dentists, and a relatively large proportion of dentists are self-employed.

See Cerritos College Graduation Requirements.
 See State University General Education List.

PRE-MEDICAL CAREER PATHWAY

The following curriculum does not lead to an Associate in Arts Pre-Medical Degree. However, students could fulfill requirements for a Natural Sciences Degree by completing 18 units of science and math coursework to include a minimum of 2 Biological Sciences, 2 Physical Sciences and a math course beyond Intermediate Algebra.

Admission to medical school is highly competitive. Admittance is usually based primarily on the candidate's academic achievement in a college program and performance on the Medical College Admission Test (MCAT). Educational philosophies and goals, specific undergraduate course requirements, academic commitment beyond required course work, honors, extracurricular activities, leadership, application, essay, research, clinical experience, community service, volunteerism, and other qualifications for admission vary among the nation's medical schools. However, they all stress the importance of a strong foundation

in the natural sciences (biology, chemistry and physics.), highly developed competence in English communication skills, both written and spoken; capacity for quantitative thinking, represented by mastery of mathematics, and the scientific method; a foundation for an ever-increasing insight into human behavior, thought and aspiration, through study of man and his society, as revealed by a breadth of social sciences, fine arts and humanities. Knowledge of a modern foreign language, specifically Spanish is strongly recommended. Computer literacy is now very necessary for almost all medical schools. Many schools recommend computer science courses and require entering students to have a computer.

Medical schools do not require you to major in a particular field. It is possible to major in any one of a large number of disciplines, integrating the course requirements for medical school. In choosing an undergraduate major the student should give careful consideration to select a major area of study that interests them and that will provide a foundation necessary for the pursuit of an alternative career, if necessary. "Pre-Med" is not a major at the University for an Undergraduate Degree. While many successful applicants major in one of the natural sciences, a science major is NOT required for admission to medical school.

COMMON COURSE REQUIREMENTS FOR MOST MEDICAL SCHOOLS

		UNITS
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
BIOL 202	Molecular Biology/Genetics (highly recommended)	4
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 205	Quantitative Analysis (highly recommended)	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition & Literature	3
or ENGL 103	Critical and Argumentative Writing	3
PHYS 101	General Physics	4
or PHYS 201	Engineering Physics	(4)
PHYS 102	General Physics	4
or PHYS 202	Engineering Physics	(4)

Community college pre-med students who plan to transfer to a university need to complete the general education required of the transfer institution, complete the requirements of the undergraduate major and may complete the courses required by the medical school.

MATHEMATICS: Trends in medical education require the medical student to be adequately trained in mathematics. Almost all schools recommend one year of mathematics. Since calculus is recommended in several medical schools, and in some instances required, it is advantageous to complete one year of calculus or at least one semester of calculus. The second semester course may be math statistics or computer science, depending on the specific medical school requirement. Your undergraduate major will help further define your choice of mathematics requirements.

ELECTIVES: Additional science course work in biochemistry, cellular biology, genetics, molecular biology, quantitative analysis chemistry and upper division biological science courses is considered part of the academic commitment beyond the minimum required course work. Spanish is strongly recommended and computer literacy is mandatory.

For more information concerning the above listed requirements at individual schools look up the specific medical school website. The following are eleven from a multitude of medical school websites:

Harvard Medical School
www.hms.harvard.edu
 Johns Hopkins School of Medicine
www.hopkinsmedicine.org
 Loma Linda University School of Medicine
www.llu.edu/llu/medicine
 Stanford University School of Medicine
www.med.stanford.edu
 U.C. Davis School of Medicine
www-med.ucdavis.edu
 U.C. Irvine College of Medicine
www.med.uci.edu
 U.C. Los Angeles Geffen School of Medicine
www.medstudent.ucla.edu
 U.C. San Diego School of Medicine
http://medicine.ucsd.edu
 U.C. San Francisco School of Medicine
www.medschool.ucsf.edu
 U.S.C. Keck School of Medicine
www.usc.edu/schools/medicine
 Western University of Health Sciences/
 College of Osteopathic Medicine of the Pacific
www.westernu.edu

For further programming and more detailed information about specific medical school programs and requirements you are encouraged to consult The Medical School Admission Requirements (MSAR), published annually by the Association of American Medical Colleges. It is an excellent resource book to help students approach their goals realistically. Each medical school's specific requirements are detailed in the MSAR. Copies may be purchased via the Association of American Medical Colleges (AAMC) web site: www.aamc.org. Another recommended web site you may want to consider is The Princeton Online Review (www.review.com/medical/) which provides comprehensive information for researching the complexities of medical school admissions.

THE REQUIREMENTS FOR MEDICAL SCHOOL ARE SUBJECT TO CHANGE WITHOUT NOTICE.

CAREER OPPORTUNITIES: Employment of physicians and surgeons will grow faster than the average for all occupations through the year 2016 due to the continued expansion of health career industries. The growing and aging population will drive overall growth in the demand for physician services. Future physicians may be more likely to work fewer hours, retire earlier, have lower earnings, or need to practice in under-served areas. Opportunities should be very good in rural and low-income areas, because some physicians find these areas unattractive due to lower earnings potential. Unlike their predecessors, newly trained physicians face radically different choices of where and how to practice. New physicians are much less likely to enter solo practice and more likely to take salaried jobs in group medical practices, clinics and integrated healthcare systems.

PRE-OPTOMETRY CAREER PATHWAY

The following curriculum does not lead to an Associate in Arts Pre-Optometry Degree. However, students could fulfill requirements for a Natural Sciences Degree by completing 18 units of science and math coursework to include a minimum of 2 Biological Sciences, 2 Physical Sciences and a math course beyond Intermediate Algebra.

Admission to school of optometry offering the Doctor of Optometry is very competitive. Because admission has become increasingly more difficult, having completed the equivalent of a bachelor's degree is now imperative for the two California Schools of Optometry. The bachelor's degree may be in any major of the student's choice. Besides the bachelor's degree being important, college grades (GPA) and the Optometry Admission Test (OAT) scores are used in preliminary screening. The OAT which has traditionally been administered in October and February is usually taken in the fall of the junior year. It is now being offered as a computerized test at Prometric Testing Centers. The OAT evaluates the following knowledge: biology, chemistry, organic chemistry, mathematical ability, physics, writing and reading comprehension. The test bulletin describes the test in detail, application procedures, and test dates. A copy of this bulletin can be obtained by writing to the Optometry Admission Testing Program, 211 E. Chicago Ave., Suite 600., Chicago, IL. 60611; Telephone (800) 232-2159; www.opted.org. Finally, a volunteer experience with an optometrist is highly appropriate in the preparation for optometry school. First, as a prospective optometry professional, you gain valuable insight into your decision whether optometry is the career path for you. Second, you develop the opportunity to receive a letter of support from an optometry professional, a vital element of your application.

ADDITIONAL SOURCES OF INFORMATION:

Another booklet of interest to applicants is "Optometry: A Career with Vision", giving descriptions and comparisons of individual school programs, entering class profiles, costs, etc. This booklet may be obtained at no cost, by writing the American Optometric Association, 243 N. Lindbergh Blvd., St. Louis, MO 63141. Another valuable source of information is the Association of Schools and Colleges of Optometry, www.opted.org or UC Berkeley Optometry Club called Foresight at www.ocf.berkeley.edu/~foresite/. Information on UC Berkeley's pre-professional preparation coursework can be found at www.assist.org and www.scco.edu for Southern California College of Optometry in Fullerton.

COMMON LOWER DIVISION PREPARATION FOR SCHOOLS OF OPTOMETRY

		UNITS
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 211	Organic Chemistry	5
ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition & Literature	3
MATH 112	Mathematical Statistics	3
MATH 170	Analytic Geometry and Calculus I	4
MICR 200	Principles & Applications of Microbiology	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4
PSYC 101	General Introductory Psychology	3

ADDITIONAL LOWER DIVISION PREPARATION FOR SPECIFIC SCHOOLS OF OPTOMETRY

Southern California College of Optometry, Fullerton www.scco.edu

PSYC 150	Personal & Social Adjustment	3
or PSYC 251	Developmental Psychology	(3)
or PSYC 261	Social Psychology	(3)
or PSYC 271	Abnormal Psychology	(3)

SCCO allows you to repeat the OAT exam an unlimited number of times, but you must wait at least 90 days between testing dates (the 90-day wait includes any combination of written and computerized tests). SCCO will receive the computerized scores within three weeks after the test has been taken. For entry in 2008, the OAT must be completed by March 2008.

Besides the bachelor's degree and the Optometry Admission Test results, all applications must submit three letters of recommendation from non-relatives. Your work within the community, student government, or other service organizations is considered to be important and should be included in your application. Volunteer experience with an optometrist is highly recommended in your preparation for optometry school. If the applicant meets the academic and personal criteria of the preliminary screening, they will be invited for a personal interview on campus.

For the class of 2010, 99 students were admitted from an applicant pool of 549. The average G.P.A. of the ninety-eight students admitted was 3.37 G.P.A.

University of California – Berkeley <http://optometry.berkeley.edu>

CHEM 212	Organic Chemistry	5
MATH 190	Analytic Geometry	4
ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	(3)

The following Cerritos College coursework is recommended to prepare students for required upper division equivalent science coursework: A&P 200, Human Anatomy, A&P201, Human Physiology, and BIOL 202, Molecular Biology/Genetics. Biochemistry was required as of Fall 2003/Spring 2004. It is taught at most universities and also required as an upper division course.

ADDITIONAL COURSES STRONGLY RECOMMENDED for application to the School of Optometry: Upper division Genetics, Physiology of the Aging Process, Cell Biology of the Eye and Mechanisms of Ocular Disease, Molecular & Cell Biology, and Integrative Biology.

The minimum of a bachelor's degree or its equivalent is now required for admission to UCBSO. Besides the additional science classes, the grade point average is extremely important. UCBSO expects the OAT be taken only online. Testing is available year round and an examinee can select the date, time, and place to test. In addition, examinees receive their scores immediately after the completion of the test at the test center. But, Applicants who sit for the OAT after December 1st will not be considered for Fall admission to Berkeley Optometry admissions cycle.

For the 2007 cohort, sixty students were admitted with an average 3.5 G.P.A. in prerequisite courses only. The average OAT score was 357 in all subjects. The range of OAT lowest scores was 310 and the high score was 390. In addition to the academic requirements, professional letters of recommendation are critical to the U.C. Berkeley School of Optometry application process.

THE REQUIREMENTS FOR SCHOOLS OF OPTOMETRY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

CAREER OPPORTUNITIES: An optometrist or Doctor of Optometry (O.D.) are primary health care providers who are specifically trained and state licensed to examine, diagnose, manage, and treat conditions and diseases of the human eye and visual system. They may practice in specialties areas such as binocular disorders, contact lenses, low vision, ocular disease, geriatrics, pediatrics, or refractive surgery. They prescribe treatment such as/or corrective lenses, contact lenses, laser procedures or vision therapy. They may practice as independent practitioners, in a group practice, a health clinic or hospital. Job opportunities for the employment of optometrists are expected to grow as fast as average for all occupations through 2016. Increased incidences of diabetes and hypertension in the general population as well as in the elderly will generate greater demand for optometric services as these diseases often affect eyesight. Also, the need to replace optometrists who retire or leave the occupation for other reasons will create more employment opportunities. Employment of optometrists would grow more rapidly were it not for anticipated productivity gains that will allow each optometrist to see more patients. These expected gains stem from greater use of optometry assistants and other support personnel, who will reduce the amount of time optometrists need with each patient. Also, new surgical procedures using lasers are available that can correct some vision problems, and although optometrists still will be needed to provide preoperative and postoperative care for laser surgery patients, patients who successfully undergo this surgery may not require optometrists to prescribe glasses or contacts for several years. The need to replace optometrists who retire or leave the occupation for another reason will create the predominant source of employment opportunities. According to the American Optometric Association, median net annual income for all optometrists, including the self-employed was \$105,000 in 2006. The middle 50 percent earned between \$84,000 and \$150,000.

See Cerritos College Graduation Requirements.

See State University General Education List.

PRE-PHARMACY CAREER PATHWAY

The following curriculum does not lead to an Associate in Arts Pre-Pharmacy Degree. However, students could fulfill requirements for a Natural Sciences Degree by completing 18 units of science and math coursework to include a minimum of 2 Biological Sciences, 2 Physical Sciences and a math course beyond Intermediate Algebra.

Admission to schools of pharmacy is highly competitive. Schools of Pharmacy offering the Doctor of Pharmacy generally require the completion of a minimum of 60 semester units of pre-pharmacy coursework. Applicants who have received a baccalaureate degree will be considered more favorably than applicants who have fulfilled only minimum requirements. A solid understanding of the fundamental sciences is essential for the study of the pharmaceutical and biochemical sciences. A discipline in the natural sciences is often the popular major selected.

COMMON COURSE REQUIREMENTS FOR MOST PHARMACY SCHOOLS

	UNITS
BIOL 200 Principles of Biology	5
BIOL 201 Principles of Biology	5
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5
CHEM 211 Organic Chemistry	5
CHEM 212 Organic Chemistry	5

ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition & Literature	3
or ENGL 103	Critical and Argumentative Writing	3
MATH 170	Analytic Geometry and Calculus I	4

ADDITIONAL REQUIREMENTS FOR SPECIFIC CALIFORNIA PHARMACY SCHOOLS

Loma Linda University – School of Pharmacy

www.llu.edu/llu/sps

Preferably, applicants will have successfully completed a baccalaureate degree in chemistry, biology, physics, or a related scientific field. The minimum requirement for acceptance without a BS degree is completion of the 78 semester units of a pre-pharmacy program of study. To be eligible for admission applicants must have a minimum cumulative undergraduate as well as cumulative science/math GPA of 2.75 at the time of application. An introductory computer class (e.g., proficiency in a word processing program, spreadsheet, and Power Point; ability to send and receive emails with attachments and ability to search and retrieve information from the World Wide Web) and a speech communication class are required along with the following general education:

A & P 200	Human Anatomy (as of entry 2006)	5
CIS 101	Introduction to Computer Information Systems	3
MICRO 200	Principles & Applications of Microbiology	5
PHYS 101	General Physics	4
PHYS 02	General Physics	4
SPCH 100	Fundamentals of Oral Communication	3

Humanities/Fine Arts 12 Units

Select from: literature, philosophy, religion, ethics, foreign language, preferably Spanish, cultural diversity, performing arts, visual arts, fine arts, history or civilization.

Social Sciences/Behavioral Sciences 12 Units

Include one semester of economics (macro or micro) and one semester of general psychology. The remaining units can be from sociology, anthropology, political science, geography or cultural diversity.

University of California – San Diego – School of Pharmacy

www.pharmacy.ucsd.edu

It is strongly recommended that students complete the requirements for a bachelor's degree. The absolute, minimum requirement is 63 semester units taken at an accredited college or university in the United States and completion of the prerequisites for this school. Students who have only completed the minimum coursework and who do not obtain a bachelor's degree may be at a competitive disadvantage in the application process. Applicants who have not earned a bachelor's degree prior to the start of classes in the fall, will only be considered if they have exceptional academic performance and evidence of outstanding leadership potential. The Admissions Committee selects applicants for matriculation who have demonstrated the personal qualities of intelligence, maturity, integrity, dedication to the ideal of service to society, and who are best suited for meeting the educational goals of the School. The ability to express oneself clearly in both oral and written English is essential. In addition to intellectual and academic competence, the Admissions Committee considers communication skills, demonstrated leadership ability, community service and health care related experience. There were 1,278 applications received. Number of applicants invited to interview was 225 of which 100% had a bachelor's degree. Thirty students were admitted to the graduating class of 2011.

Curricula, Requirements for Majors, Certificates and Transfer Programs

The average overall G.P.A. of the students admitted was 3.66.

ECON 201	Principles of Macroeconomics	3
or ECON 202	Principles of Microeconomics	(3)
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
or PHYS 101	General Physics	(4)
PHYS 202	Engineering Physics	4
or PHYS 102	General Physics	(4)
PSYC 101	General Introductory Psychology	3
or SOC 101	Introductory Sociology Principles	(3)
or ANTH 100	Cultural Anthropology	(3)
SPCH 130	Fundamentals of Public Speaking	3
or SPCH 235	Fundamentals of Argumentation & Persuasion	(3)
HUMANITIES & FINE ARTS: any two additional courses		3-3
SOCIAL SCIENCES: Any two additional courses		3-3

Proficiency in a foreign language such as Spanish is considered highly desirable. It is also strongly recommended that students take upper division courses in biochemistry, physiology and cellular and molecular biology. These courses will better prepare the first year UCSD Pharmacy student.

University of California, San Francisco – School of Pharmacy <http://pharmacy.ucsf.edu>

The minimum requirement is 62 semester units. Although this is the absolute minimum requirement, about 96% of the students accepted to U.C.S.F. PharmD program have completed a bachelor's degree – usually in biology, biochemistry, or chemistry. The average grade point average of all accepted students is about 3.50. Each year, less than about 1.6% of admitted students enter directly from a California Community College. Last year U.C.S.F. PharmD program accepted 122 students from 1,200 applicants.

A&P 201	Human Physiology	5
ECON 201	Principles of Macroeconomics	3
or ECON 202	Principles of Microeconomics	(3)
MATH 190	Analytic Geometry and Calculus II	4
PHYS 201	Engineering Physics	4
or PHYS 101	General Physics	(4)
PHYS 202	Engineering Physics	4
or PHYS 102	General Physics	(4)
PSYC 101	General Introductory Psychology	3
or SOC 101	Introductory Sociology Principles	(3)
or ANTH 100	Cultural Anthropology	(3)
SPCH 130	Fundamentals of Public Speaking	3
or SPCH 235	Fundamentals of Argumentation & Persuasion	(3)

University of Pacific www.pacific.edu/pharmacy

Although a bachelor's degree is not required, a degree can make an applicant more competitive, in recent years a strong majority of the successful applicants have had degrees. There is no absolute G.P.A. cutoff. Admission is competitive and is based on a number of factors in addition to G.P.A. including science grades, recommendations, essay, interview results, and demonstration of your ability to succeed in 17 units or more per semester. Competition can vary from year to year depending upon the size and strength of the applicant pool. The average G.P.A. over the past four years has ranged between 3.3 to 3.4. Check UOP PharmD website for specifically listed general education coursework. Recommended electives include anatomy, genetics, physiology, microbiology, biochemistry, analytical chemistry

and physical chemistry.

ECON 201	Principles of Macroeconomics	3
or ECON 101	U.S. & Global Economy	(3)
MATH 116	Calculus for Managerial and Biological Sciences	4
or MATH 170	Analytical Geometry and Calculus	(4)
MICR 200	Principles & Applications of Microbiology	5
PHYS 101	General Physics	4
or PHYS 100	Elementary Physics	(4)
PSYC 101	General Introductory Psychology	3
or PSYC 271	Abnormal Psychology	(3)
SPCH 130	Fundamentals of Speaking	3

University of Southern California

www.usc.edu/schools/pharmacy/pharmd/

A minimum of 90 semester or 135 quarter units must be completed prior to entrance, with a minimum 3.0 cumulative G.P.A. Sometimes a lower cumulative G.P.A. might be considered if grades in mathematics and science are stronger. It is highly recommended that Math and Science courses be completed during the regular academic year and not during a summer term. Pre-pharmacy requirements in the following areas must be repeated if they are 9 years or older at the time the application is submitted: mammalian physiology, microbiology, molecular biology, biochemistry and organic chemistry (full year). These courses must be repeated at a four-year college/university. Priority is given to those who have completed the Math and Science requirements at the time of the application and to those applicants who have completed more than the minimum amount of coursework. Candidates who have received or will receive a Baccalaureate degree or who have completed units in excess of the minimum required would be considered more favorably than applicants who have fulfilled only minimum requirements. The School of Pharmacy Office of Admissions uses an interview process to make determinations on admissions. The interview consists of two parts: an oral interview and a writing test. The purpose of the interview is to assess your oral communication skills, writing skills, leadership ability, and your motivation or potential to be a pharmacist.

A&P 201	Human Physiology	5
BIOL 202	Molecular Biology/Genetics	4
ECON 201	Principles of Macroeconomics	3
or ECON 202	Principles of Microeconomics	(3)
HUMANITIES/FINE ARTS: Two Additional courses		3-3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
MICR 200	Principles & Applications of Microbiology	5
PHYS 201	Engineering Physics	4
or PHYS 101	General Physics	(4)
PHYS 202	Engineering Physics	4
or PHYS 102	General Physics	(4)
PSYC 101	General Introductory Psychology	3
or SOC 101	Introductory Sociology Principles	(3)

SOCIAL/BEHAVIORAL SCIENCE: Two Additional courses		3-3
SPCH 100	Fundamentals of Oral Communication	3
or SPCH 120	Interpersonal Communication	(3)

The following required upper division courses are not offered at Cerritos College, but must be taken at another college or university: Biochemistry, Molecular Biology and Mammalian Physiology.

RECOMMENDED COURSE: Any Computer Science class

Western University of Health Sciences, College of Pharmacy

www.westernu.edu/pharmacy/pharmd_about.xml

Minimum of 60 semester units is required. Candidates who have received a baccalaureate degree will be considered more favorably than applicants who have fulfilled only minimum requirements. Complete prerequisites with a "C" or better. All prerequisite coursework in progress must be completed no later than the spring semester or quarter immediately preceding matriculation. Summer session courses taken immediately prior to matriculation at Western University of Health Sciences are not accepted. Students must have a minimum cumulative and science grade point average of 2.5 in order to apply.

For the entering class of fall 2007, 120 students were admitted from an applicant pool of 1,591 students. The average cumulative grade point average was 3.33 and the average science grade point average was 3.20. Applicants must submit an application by March 1 of the year prior to admission and participate in an admission interview and assessment of written and verbal communication skills.

A&P 200	Human Anatomy	5
A&P 201	Human Physiology	5
MICR 200	Principles & Applications Microbiology	5
SPCH 100	Fundamentals of Oral Communication	3
or SPCH 120	Fundamentals of Interpersonal Communication	(3)
or SPCH 130	Fundamentals of Speaking	(3)

Besides the required courses listed the student must have at least 20 additional units from natural sciences, humanities/fine arts, and behavioral and social sciences. Electives must be met from at least two of the three following areas: Public Speaking/Debate, Social Sciences, to include Economics.

The following required coursework is not offered at Cerritos College, but must be taken at another college or university: Biochemistry (2 semesters) or Biochemistry (1 semester) and Molecular Biology (1 semester).

Advanced Placement, Transfer of Credit, CLEP or Credit for Experiential learning is not recognized by the program.

THE REQUIREMENTS FOR PHARMACY SCHOOLS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

CAREER OPPORTUNITIES: Changes in health care delivery are giving the role of pharmacist a new dimension: significant responsibility as a member of the health team with direct patient care. Hospital pharmacists work on educating patients on safe use of drugs, advising prescribers about the appropriate dosing and following patient's response to usage. Career advancement exists in administration and research. In addition to dispensing medications, community pharmacists guide patients in non-prescription drugs and being alert to adverse pharmacies. Industrial Pharmacists may work in research and development including the formulation, evaluation, packaging and quality control of drugs. Some pharmacists are employed by governmental agencies such as narcotic divisions, food and drug evaluation and regulation, and public health.



PRE-PHYSICAL THERAPY**CAREER PATHWAY****(The following does not lead to an Associate of Arts degree)**

There are several schools in California, both public and private, that offer the Masters degree in Physical Therapy. For specific information on schools not listed here please consult the catalogs of those schools and speak to a counselor.

California State University – Fresno

CSU Fresno offers a Bachelors of Science in Interdisciplinary Health and Rehabilitation Sciences. The major is designed to prepare undergraduate university students with prerequisite coursework, knowledge, attitudes and skills that will help them to gain admission to and succeed in graduate programs in the rehabilitation and health professions. Students apply to the master of Physical Therapy program after completing a bachelor of science in a related field. The following courses are considered the prerequisite courses for the program:

PREREQUISITE COURSES:**UNITS**

A&P 200	Human Anatomy	5
A&P 201	Human Physiology	5
CHEM 100	Introductory Chemistry	4
or CHEM 111	General Chemistry	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4
PSYC 101	General Introductory Psychology	3
MATH112	Elementary Statistics	4

California State University – Long Beach

CSULB offers a Master's of Physical Therapy degree only. Applicants must have a BS/BA degree in a related field, i.e. Biology (physiology) or Kinesiology (Exercise Science), in order to apply. Suggested coursework preparation to meet program prerequisite:

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4
A&P 150	Introduction to Human Anatomy	4
or A&P 200	Human Anatomy	5
BIOL 201	Principles of Biology	5
BIOL 200	Principles of Biology	5

California State University – Northridge

The Physical Therapy program at CSUN leads to a Master's in Physical Therapy. Completion of a Bachelor's degree prior to enrollment is required. All prerequisite courses must be completed with a minimum grade of "C" and minimum cumulative GPA of 3.0

Prerequisite courses:

A&P 200	Human Anatomy	5
or A&P 150	Introduction to Human Anatomy	4
A&P 201	Human Physiology or	5
or A&P 151	Introduction to Human Physiology	4
BIOL 120	Introduction to Biological Science	4
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MATH 150	Precalculus Mathematics	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4
PSYC 101	General Introductory Psychology	3

CAREER OPPORTUNITIES: Physical therapists help persons with various diseases or injuries to overcome their disabilities. They are members of a rehabilitation team, which is directed by a physician. Although qualified physical therapists may treat many types of patients, some specialize in caring for children or for patients with arthritis, amputations or paralysis. Successful completion of a Bachelor or Master's Degree qualifies one to take the State of California examination to practice as a Physical Therapist.

See State University Colleges General Education List.

PRE-VETERINARY**CAREER PATHWAY**

The following curriculum does not lead to an Associate in Arts Pre-Veterinary Degree. However, students could fulfill requirements for a Natural Sciences Degree by completing 18 units of science and math coursework to include a minimum of 2 Biological Sciences, 2 Physical Sciences and a math course beyond Intermediate Algebra.

Veterinary medicine is the broadest and most comprehensive of all the health professions. Academic preparation for veterinary school takes place at the undergraduate level, consisting of both lower division AND upper division coursework with a special emphasis in the sciences. In order to succeed academically, in the rigorous veterinary school curriculum, veterinary schools are looking for individuals with a highly developed science background. The more competitive veterinary schools are looking for grade point averages in the range of 3.5 – 4.0 GPA. Many, but not all veterinary schools require a bachelor's degree. In most instances, a bachelor's degree makes an applicant more competitive in the admission process. Most veterinary schools require a standardized graduate admissions test (e.g. GRE, MCAT, and VCAT). Extracurricular activities such as community activities, motivation, and leadership are essential. Animal related activities and/or animal related work experience is mandatory. Most colleges are looking for a strong demonstrated commitment to working with animals. Some schools actually require employment by a Veterinarian. Many veterinary schools require that you apply through the Veterinary Medical Colleges Application Service (VMCAS). This is a central application, distribution, collection and processing service at VMCAS, 1101 Vermont Avenue, Washington, DC 20005. telephone: (877) 862-2740.

COMMON LOWER DIVISION PREPARATION FOR VETERINARY SCHOOLS**UNITS**

BIOL200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
MATH 112	Statistics	3
PHYS 101	General Physics	4
PHYS 102	General Physics	4

ADDITIONAL LOWER DIVISION PREPARATION FOR SPECIFIC INSTITUTIONS

University of California, Davis – School of Veterinary Medicine

www.vetmed.ucdavis.edu/studentprograms

Students are admitted to this school in the fall semester only. All of the required science courses must be completed at the time of application. The majority of students accepted to the school has completed 3 or more years of pre-professional coursework or possess a bachelor's degree. An applicant may study in any major provided the prerequisite courses are taken. The life/health sciences: biology, animal science, zoology, and Natural/Environmental Sciences are the most common and popular majors. Academic performance is the major factor in admission selection for the UC Davis Veterinary School. Most successful applicants have their coursework with a grade point average of 3.5 – 4.0. The GRE is the graduate record exam, which is required by this veterinary school. If the GRE has been taken more than once, the highest score in every section will be used. Scores from the Graduate Record Examination must be taken by October 1st. The school believes the best predictors of how successful an applicant will be in completing the veterinary curriculum are the grade point average and GRE. Extracurricular activities and substantial experience with animals, which should include working or volunteer experience with veterinarians, a minimum of 180 veterinary experience hours is required. Annual tuition will be approximately \$35,000.

ADDITIONAL REQUIREMENTS FOR ADMISSION: Three strong letters of evaluation, a personal statement, and an interview.

ENGL 100	Freshman Composition	4
ENGLISH	(Any two additional classes)	3-3
HUMANITIES/ FINE ARTS		
(Any two-three additional classes)		8
SOCIAL/BEHAVIORAL SCIENCES		
(Any two-three additional classes)		8

Two to three English courses should total a minimum of 8 semester units or 12 quarter units. The following required upper division courses are not offered at the lower division level and must be taken at the university: Biochemistry, Genetics, and Systemic Physiology.

The following are the application statistics for the class of 2011: From an applicant pool of 1120 only 131 students were accepted. Of the 131 applicants accepted 127 had bachelor degrees only 4 had no degree. The average cumulative GPA was 3.47, required science 3.3. The average GRE scores were 574/75% on Verbal and 702/70% on Quantitative and 5.0/67% on Analytical Writing. The average number of Veterinary-related experience hours at the time of application was 3,000. The university with the most applicants accepted to the veterinary school was UC Davis. Other universities which had high numbers admitted were UC San Diego, Cal Poly San Luis Obispo, Cal Poly Pomona, and UC Santa Barbara and Santa Cruz.

Western University of Health Sciences –

College of Veterinary Medicine

www.westernu.edu/xp/edu/veterinary/home.xml

The College of Veterinary Medicine at Western University of Health Sciences was founded on August 8, 1998. The college admitted its charter class of 85 students in the Fall of 2003. Of those students admitted in 2003 the average overall cumulative G.P.A. was 3.15 and the average prerequisite G.P.A. was 3.25. The class which entered Fall 2005 consisted of 100 students from 614 applications received. The cumulative grade point average was 3.22 and prerequisite grade point average was 3.26. All applicants must take either the Medical College Admissions Test (MCAT) or the General Graduate Record Examination (GRE). Animal-related experience must total at least 500 hours of

hands-on experience that goes beyond observation. Supervisors should be able to assess applicant's interest in animal well being, work habits and personal integrity. Appropriate venues include, but are not limited to the following: veterinary practices, animal medical environments, commercial animal production operations, regulatory animal control, humane shelters, animal entertainment (zoos etc.) and animal research institutions.

ANTH 100	Cultural Anthropology	3
or ECON 201	Principle of Macroeconomics	(3)
BIOL 202	Molecular Biology/Genetics	4
ENGL 100	Freshman Composition	4
ENGL 105	Technical Writing	3
HO 152	Normal & Therapeutic Nutrition	3
HUMANITIES / SOCIAL SCIENCES		6
MICR 200	Principles & Applications of Microbiology	5
PSYC 101	General Introductory Psychology	3
or SOC 101	Introductory Sociology Principles	(3)
SPCH 100	Fundamentals of Oral Communication	3

The following required courses are not offered at Cerritos College, but must be taken at a university: Biochemistry and any two upper division biological sciences (Anatomy, Animal Science, Biology, Botany, Cell Biology, Ecology, Embryology, Endocrinology, Histology, Immunology, Kinesiology, Mammology, Parasitology, Reproduction, Toxicology, Pharmacology, Physiology, or Zoology.)

For more school specific information concerning the requirements at individual out of state schools look up the specific veterinary school website. We have provided a few examples of the 28 out of state school sites:

Colorado State University Veterinary School
www.cvmb.colostate.edu
 Cornell University Veterinary School
www.vet.cornell.edu
 Michigan State Veterinary College
www.cvm.msu.edu
 Oregon State Veterinary School
www.oregonstate.edu/vetmed
 Washington State University Veterinary School
www.vetmed.wsu.edu

For further detailed programming about the complexities of veterinary school admissions: American Association of Veterinary Medical Colleges, www.aavmc.org, California Veterinary Association, www.cvma.net, American Veterinary Medical Association, www.avma.org, U.S. News Rankings and Ratings, www.usnews.com and Veterinary School Search, www.wpi.edu/Academics

THE REQUIREMENTS FOR VETERINARY SCHOOLS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

CAREER OPPORTUNITIES: Employment of veterinarians is expected to increase as fast as the average for most occupations through the year 2016. Despite this average growth, good job opportunities are expected because the 28 USA schools of veterinary medicine, of which only 2 are in California, even at full capacity, result in a limited number of graduates each year. For the most part veterinarians tend to practice in animal hospitals or clinics and care primarily for companion animals.

The majority of veterinarians in the United States seek a private practice. Other veterinarians work in a wide range of fields relating to public health, animal disease control, environmental protection, the biotechnology industry, higher education or research.

New graduates continue to be attracted to small-animal medicine because they prefer to deal with pets and to live and work near heavily populated areas. Beginning private practice veterinarians may take positions requiring evening or weekend work to accommodate the extended hours of operation that many practices are offering. Some veterinarians take salaried positions in retail stores offering veterinary services. Self-employed veterinarians usually have to work hard and long to build a sufficient client base.

Job prospects may be better for veterinarians who specialize in farm animals than for small animal practitioners because of low earnings in the companion pets and because many veterinarians do not want to work in rural or isolated areas. The number of jobs for large-animal veterinarians is likely to grow more slowly than that for veterinarians in private practice that cares for companion animals. Nevertheless, job prospects may be better for veterinarians who specialize in farm animals than for companion-animal practitioners because of low earnings in the former specialty and because many veterinarians do not want to work in rural or isolated areas. Veterinarians with training in food safety, animal health and welfare, and public health and epidemiology should have the best opportunities for a career in the Federal Government.

According to a survey by the American Veterinary Medical Association, average-starting salaries of veterinary medical college graduates ranged from \$40,130 - \$61,029. The salary ranged in 2006 from \$56,450 to \$94,880. The median annual earnings of veterinarians was \$71,990. The average annual salary for experienced veterinarians in the Federal Government in non-supervisory and managerial positions was \$84,335 in 2007.

See Cerritos College Graduation Requirements.

See State University General Education List.

PSYCHOLOGY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

PSYC 101	General Introductory Psychology	3

ADDITIONAL LOWER DIVISION MAJOR PREPARATION
FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

PSYC 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)
PSYC 220	Research Methods	4

California State University – Long Beach

PSYC 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)
PSYC 220	Research Methods	4
PSYC 241	Introduction to Psychobiology	3

California State University – Fullerton

PSYC 210	Elementary Statistics	4
PSYC 220	Research Methods	4

California State University – Los Angeles

Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

PSYC 241	Introduction to Psychobiology	3
PSYC 210	Elementary Statistics	(4)

University of California – Los Angeles

ANTH 115	Physical Anthropology	3
A&P 120	Introduction to Human Anatomy and Physiology	4
or BIOL 120	Introduction to Biological Science	(4)
or BIOL 200	Principles of Biology	(5)
CHEM 100	Introductory Chemistry	4
or CHEM 110	Elementary Chemistry	(4)
or CHEM 111	General Chemistry or H.S. CHEM completed with a "C" or better	(5)
PSYC 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)
or MATH 115	Finite Mathematics	(4)
or CIS 280	Object-Oriented Programming in C++	(3)
or MATH 170	Analytic Geometry and Calculus I	(4)
or MATH 116	Calculus for Managerial Biological and Social Sciences	(4)
PHIL 100	Introduction to Philosophy	3
or PHIL 102	Introduction to Ethics	(3)
or PHIL 106	Introduction to Logic	(3)
or PHIL 103	Philosophical Reasoning: Critical Thinking in Philosophy	(3)
PHYS 100	Elementary Physics	4
or PHYS 101	General Physics	(4)
or PHYS 201	Engineering Physics	(4)

University of California – Irvine

In fulfillment of the requirements below, a single course may be used only once.

CIS 101	Introduction to Computer Information Systems	(3)
MATH 170	Analytic Geometry & Calculus I	4
and PSYC 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)
PSYC 101	General Introductory Psychology	3
and PSYC 241	Introduction to Psychobiology	3
and PSYC 261	Social Psychology	3
or PSYC 271	Abnormal Psychology	(3)

One Course from:

PSYC 150	Personal and Social Adjustment	3
PSYC 210	Elementary Statistics	(4)
PSYC 220	Research Methods	4
PSYC 241	Introduction to Psychobiology	3
PSYC 251	Developmental Psychology	3
PSYC 261	Social Psychology	3
PSYC 271	Abnormal Psychology	3

Two of the following:

ANTH 100	Cultural Anthropology	3
or ANTH 115	Physical Anthropology	(3)
ECON 101	US & Global Economy	3
SOC 101	Introductory Sociology Principles	3

University of California – Riverside**A)**

PSYC 210	Elementary Statistics	(4)
PSYC 220	Research Methods	4

B) Complete one course in mathematics, statistics, or computer science (Any UC transferable course from one of these 3 disciplines is acceptable to fulfill this requirement. PSYC 210 will not double count for this requirement.)

Note: The following course is strongly recommended to fulfill this area, as it is a prerequisite to UCR's PSYC 11 "Psychological Methods: Research Procedures"

MATH 150	Precalculus Mathematics	(4)

C) Complete one course in Biological Science

BIOL 120	Introduction to Biological Science	(4)
BIOL 200	Principles of Biology	(5)
BIOL 201	Principles of Biology	5
BOT 120	Introduction to Plant Science	4
and ZOOL 120	Introduction to Animal Biology	4

D) Complete one course in Physical Science

ASTR 101	Elementary Astronomy	(3)
ASTR 102	Introduction to Astronomy: Stars and the Universe	(3)
ASTR 103	Introduction to Astronomy: The Solar System	3
ASTR 106	History of Astronomy	3
CHEM 100	Introductory Chemistry	4
CHEM 111	General Chemistry	(5)
and CHEM 112	General Chemistry	(5)
PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	(4)
and PHYS 203	Engineering Physics	(4)

No credit for ASTR 102 or 103 if taken after ASTR 101. UC transferable credit for ASTR 102 and 103: maximum credit, one course.

A UC transferable 3 semester/4 quarter unit geoscience course (such as geology or geography course, with the exception of cultural geography) may also be used towards the physical science requirement.

E) Complete two additional courses from areas B), C) or D) above.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Graduate work is extremely important in Psychology. Those holding M.A., or Ph.D. in Psychology may find employment in teaching, private practice, research, health, and welfare programs. Persons without graduate degrees will find employment opportunities limited. See a counselor for further information.

See Cerritos College Graduation Requirements.

See California State University General Education List.

RADIO/TELEVISION BROADCASTING

The following Broadcast Media program of study has been designed to prepare student for an AA degree. Students interested in preparing for a Bachelor of Arts degree at a four-year college are referred to the Theater Arts Transfer Program.

BROADCAST MEDIA**26.5 UNITS****COMPLETE 20.5 CORE UNITS**

JOUR 101	Beginning Newswriting and Reporting	3
JOUR 121	Multimedia Reporting	3
JOUR 122	Creating Podcasts for Media	1
JOUR 170	Broadcast News/Webcasting	1
or RTV 170	Broadcast News/Webcasting	(1)
RTV 151	Motion Pictures, Radio and TV	3
RTV 152	Introduction to Broadcasting	3
TH 156	Television Production	2.5
RTV 155	Radio Production	3
RTV 298	Directed Studies in Radio-TV	1
or RTV 171	Occupational Work Experience in Radio/TV	(1)

PLUS A MINIMUM OF 6 UNITS FROM THE FOLLOWING

MUS 146	Recording Techniques	3
RTV 255	Editing Audio	3
SPCH 140	Oral Interpretation of Literature	3
SPCH 145	Storytelling	3
SPCH 271	Voice and Articulation	3
TH 117	Stand-Up Comedy	3
TH 241	Screenwriting	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete a minimum of 60 units to include (1) the above courses and units, (2) AA Degree General Education requirements, and (3) electives as needed.

CAREER OPPORTUNITIES: Acting, announcing, directing, reporting, media/sound recording technician, media production assistant, and media publicity technician.

See Cerritos College Graduation Requirements.

**RADIO/TELEVISION BROADCAST ANNOUNCING
VERIFICATION OF COMPLETION**

This verification helps the student focus on the study of and preparation for entry level employment in the field of broadcast announcing at radio and television stations, and in online broadcast ventures. This verification is one of two-part verification combination that will begin to prepare the student for an Associate in Arts in Broadcast Media. (See JOUR 141 – Broadcast Journalism)

RADIO/TELEVISION BROADCAST ANNOUNCING**14.5 UNITS**

RTV 152	Introduction to Broadcasting	3
RTV 155	Radio Production	3
TH 156	Television Production	2.5
or RTV 170	Broadcast News/Webcasting	(1)
JOUR 122	Creating Podcasts for Media	1
JOUR 170	Broadcast News/Webcasting	1
SPCH 40	Oral Interpretation of Literature	3
SPCH 271	Voice and Articulation	3
RTV 298	Directed Studies in Radio-TV*	1
or RTV 171	Occupational Work Experience in Radio-TV*	(1)

* Should be a broadcasting-related internship

SECURITY MANAGEMENT ASSOCIATE IN ARTS DEGREE

The following Security Management Associate in Arts Degree program meets guidelines established by the California Community Colleges Chancellor's Office.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete a minimum of 60 units, including (1) the Security Management Core requirements and (2) AA degree general education requirements.

SECURITY MANAGEMENT CORE

UNITS

AJ 101	Introduction to Administration of Justice	3
AJ 112	Introduction to Security Management	3
AJ 210	Legal Aspects of Security Management	3
AJ 211	Investigative Techniques for Security Management	3
AJ 212	Public Safety and Security Management	3
AJ 213	Public Safety Communications	3
AJ 214	Information Security	3

CAREER OPPORTUNITIES: Upon completion of the Security Management Associate in Arts Degree program employment within the public and private security sector is available. The security industry encompasses a wide range of services from standard guard duties to complex responsibilities ranging from public safety to major corporate security activities. Those students who are existing employees within the security industry will have the advantage of a quality education, which can be applied towards promotional, and assignment responsibilities. These opportunities range from supervision of a relatively few security personnel to management of both public and private security agencies. The career opportunities within the security industry consist of positions in loss prevention, risk management asset protection, health care, government, entertainment, sports, retail and corporate settings.

See Cerritos College Graduation Requirements.

SIGN LANGUAGE VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS

UNITS

SL 101	Beginning American Sign Language	3
SL 102	Intermediate American Sign Language	3
SL 201	Advanced American Sign Language	3
SPCH 120	Fundamentals of Interpersonal Communication	3
SPCH 271	Voice and Articulation	3

TOTAL VERIFICATION REQUIREMENTS: 12

Although many of these courses are transferable, this Verification of Completion is nontransferable. Please see counselors or the respective department for additional alternatives.

SOCIAL WELFARE CAREER PATHWAY

(The following curriculum does not lead to an Associate in Arts Degree. To earn an AA degree, see Sociology or Psychology in the catalog for the major requirements.)

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

CSU Long Beach and CSU Los Angeles offer the Bachelor of Arts in Social Work.

California State University – Long Beach:

UNITS

A&P 120	Introduction to Human Anatomy & Physiology	4
or A&P 130	Human Anatomy and Physiology	5
ANTH 100	Cultural Anthropology	3
PSYC 101	General Introductory Psychology	3
PSYC 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)
SOC 101	Introductory Sociology Principles	3
SOC 220	Introduction to Human Services	3

Additional recommended coursework that will be considered advantageous; Any Ethnic Studies, Women Studies, and Gerontology.

The Bachelor of Arts in Social Work program is impacted. The CSU designates major programs as impacted when more applications are received in the initial filing period from CSU eligible applicants than can be accommodated by the campus. Impacted majors are authorized to use supplementary admission criteria and /or higher admission standards than the CSU minimum requirements in considering applicants to the program. These criteria are applied equally to continuing CSULB students and entering upper-division transfer students. Examples of such criteria include a supplementary application, two letters of reference (one academic and one professional), and documented exposure to the field of Social Work in a variety of settings such as work or volunteer experience. Please refer to the admissions web site for impactation admission details www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

California State University – Los Angeles:

PSYC 101	General Introductory Psychology	3
or SOC 101	Introductory Sociology Principles	(3)
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement.

This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

CAREER OPPORTUNITIES: Social Workers are employed in varied settings, including the major societal institutions; health and mental health care, child welfare, family services, government, education, justice, aging services, recreation, labor and industry and religion. They work in many job classifications: direct service, community organization supervision, consultation, management and administration, education and training, policy analysis and research.

See State University General Education List

SOCIOLOGY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

SOC 101	Introductory Sociology Principles	3
MATH 112	Elementary Statistics	4
or PSYCH 210	Elementary Statistics	(4)

Recommended Electives

ANTH 100	Cultural Anthropology	3
PSYC 101	General Introductory Psychology	3
SOC 201	Social Problems	3

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

No other requirements other than the common lower-division preparation.

California State University – Fullerton

A total of 9 units of Sociology course work may be transferred.

SOC 250	Sociology of Aging	3

All courses counting toward the major must be taken for a letter grade.

California State University – Los Angeles

No other requirement other than the common lower division preparation.

Students who transfer without having completed CERRITOS' SOC 101 and MATH 112 are strongly recommended to include the CSULA comparable courses among their first courses at CSULA. Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement. See Counselor and www.assist.org for more details.

California State University – Long Beach

Recommended Electives:

ANTH 100	Cultural Anthropology	3
SOC 201	Social Problems	3

University of California – Irvine

SOC 201	Social Problems	3
MATH 170	Analytic Geometry and Calculus I	4

Two courses from:

SOC 110	Marriage and the Family	3
or SOC 210	American Minority Relations	(3)
or PSYC 261	Social Psychology	(3)

Two additional social science courses are required.

An approved list of courses is available from www.assist.org

An additional computer requirement can be satisfied by choosing from the options below:

CIS 101	Introduction to Computer Information Systems	3
or CIS 280	Object-Oriented Programming in C++	(3)
and CIS 182	JAVA Programming	(3.5)

University of California – Los Angeles

In addition to the common lower-division preparation, students must complete the following requirements:

MATH 115	Finite Mathematics	4
or MATH 116	Calculus for Managerial, Biological, and Social Sciences	(4)
or MATH 170	Analytic Geometry and Calculus I	(4)

The Sociology Department at UCLA requires you complete all major preparation courses available at Cerritos prior to transferring. All courses must be taken for a letter grade.

University of California – Riverside

Two additional lower division sociology courses. Any UC transferable sociology course is acceptable.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above common division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: The degree provides a strong preparation for positions in business, social sciences, government, public relations, or journalism. It provides a good base for future study in law, education, medicine, social work or counseling.

See Cerritos College Graduation Requirements.

See State University General Education List.

SPANISH TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY

SPAN 101	Elementary Spanish	5
SPAN 102	Elementary Spanish	5
SPAN 201	Intermediate Spanish	5
SPAN 202	Intermediate Spanish	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

The common lower division preparation for the California State University listed previously is required. SPAN 111 or SPAN 112 are also accepted in place of the common lower division preparation courses of SPAN 101 or SPAN 102 respectively. There are no additional requirements other than the common lower division preparation.

California State University – Fullerton

The common lower division preparation for the California State University listed previously is required. SPAN 111 is also accepted in place of the common lower division preparation course of SPAN 101 and SPAN 112 is also accepted in place of the common lower division preparation course of SPAN 102. In addition, the following courses are required:

SPAN 281	Beginning Conversational Spanish	3
or SPAN 282	Intermediate Conversational Spanish	(3)
or SPAN 283	Advanced Conversational Spanish	(3)

California State University – Long Beach

Students who have completed sufficient high school Spanish or equivalent may take upper-division courses as soon as proficiency requirements have been met. In addition to the common lower division major preparation previously listed, two years of a second foreign language at the university level, or equivalent is also required. No course being used to satisfy any major requirement for the B.A. may be taken on a Credit/No Credit basis.

California State University – Los Angeles

No additional requirements other than the common lower division preparation previously listed for the California State University. As an alternative to completing the common lower division preparation courses listed above, students can demonstrate equivalent language competency on the department's placement exam.

Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

COMMON LOWER DIVISION MAJOR PREPARATION FOR UNIVERSITY OF CALIFORNIA

SPAN 101	Elementary Spanish	5
and SPAN 102	Elementary Spanish	5
SPAN 201	Intermediate Spanish	5
and SPAN 202	Intermediate Spanish	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

University of California – Irvine

In addition to the common lower division major preparation for University of California previously listed, at least one course is required from four different areas (writing, literature, history, and philosophy). An approved list of courses is available from ASSIST. Please consult a counselor, if necessary, for these additional classes.

This major does not require the completion of certain prerequisites for admission as a transfer student.

University of California – Los Angeles

UCLA offers Spanish as a major although no formal articulation exists. Students are recommended to complete the common lower division major preparation for the University of California prior to admission.

University of California – Riverside

No additional requirements other than the common lower division major preparation for University of California previously listed.

Note: Students may either take courses listed above or demonstrate equivalent proficiency (as measured by a placement exam at UCR).

Completion of the above course work is not mandatory for admission into this major. However, students are advised to complete as much lower division course preparation as possible prior to transfer, to be ready for upper division course work.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

(1) Meet the above requirements as listed for a state university, (2) complete the AA Degree general education requirements, and (3) take electives to achieve a minimum of 60 units.

CAREER OPPORTUNITIES: Overseas personnel in American corporations, airline hostess, travel agency personnel, government positions abroad, teaching, librarian, interpreter, and translator.

See Cerritos College Graduation Requirements.

See State University General Education List.

SPEECH COMMUNICATION VERIFICATION OF COMPLETION

A Verification of Completion shall be awarded to the student who completes with a grade of "C" or higher the following courses:

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
Choose 15 units from any of the following courses		
SPCH 110	Intercultural Communication	3
SPCH 120	Fundamentals of Interpersonal Communication	3
SPCH 130	Fundamentals of Speaking	3
SPCH 132	Fundamentals of Small Group Communication	3
SPCH 150	Organizational Communication	3
SPCH 200	Contemporary Communication Topics	3
TOTAL VERIFICATION REQUIREMENTS		15

SPEECH TRANSFER PROGRAM

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton Bachelor of Arts in Speech Communication, Human Communication Studies.

SPCH 130	Fundamentals of Speaking	3
For Bachelor of Arts in Communication – see a counselor		

California State University – Long Beach Bachelor of Arts in Speech Communication

Options in General Speech, Interpersonal and Organizational Communication and Rhetorical Studies

12 lower division units to include the following courses

SPCH 100	Fundamentals of Oral Communication	3
or SPCH 120	Fundamentals of Interpersonal Communication	(3)
SPCH 130	Fundamentals of Speaking	3
or SPCH 271	Voice and Articulation	(3)
SPCH 235	Fundamentals of Argumentation And Persuasion	3

Option in Interpersonal and Organizational Communication

SPCH 150		(3)

California State University – Los Angeles**Bachelor of Arts – Communication****Core Requirements for the General Option**

SPCH 100	Fundamentals of Oral Communication	3
SPCH 235	Argumentation and Persuasion	3

Two courses from:

SPCH 120	Fundamentals of Interpersonal Communication	3
SPCH 132	Fundamentals of Small Group Communication	3
SPCH 140	Oral Interpretation of Literature	3
SPC 239	Forensics Workshop	2
SPCH 240	Oral Interpretation: Reader's Theatre	3

For single subject teaching option – see a counselor

Students are advised to complete ENGL 103 as their CSU GE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 unit minimum and all AA degree general education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Public relations, Sales, Teaching, Law, Politics, Administration, Communications, Consulting, and Broadcasting.

See Cerritos College Graduation Requirements.

See State University General Education List.

**SPEECH-LANGUAGE PATHOLOGY AIDE
CERTIFICATE OF ACHIEVEMENT**

A Certificate of Achievement shall be awarded to the student who completes with a grade of "C" or better the following courses:

CD 110	Child Development	3
CD 139	Observation, Assessment and Positive Guidance of Childhood Behavior	3
CDSE 50	Survey of Special Education	3
SLP 100	Introduction to Speech and Language Pathology	3
SLP 110	Normal Communication, Disorders and Differences	4
SLP 125	Childhood Disorders and Treatment	5

Total Certificate Requirements		21

CAREER OPPORTUNITIES: Upon completion of the courses, employment is available in educational settings where the aide will be supervised by a licensed Speech-Language Pathologist.

SPEECH-LANGUAGE PATHOLOGY ASSISTANT

The Speech-Language Pathology Assistant curriculum prepares graduates to work under the supervision of a licensed Speech-Language Pathologist, who evaluates, diagnoses, and treats individuals with various communication disorders. The program provides a concentration of speech-language classes, related courses, and supervised field experiences that will prepare students to assist speech-language pathologists in treating disorders related to articulation and phonology, anomalies and hearing. In addition, students will be trained in the use of alternative and augmentative communication.

Courses provide instruction in methods of screening for speech, language, and hearing disorders and in following written protocols designed to remediate individual communication problems. Students are placed in supervised field experiences in school, hospital, and rehabilitation settings to work with different types and ages of clients.

Graduates will be eligible to apply for licensure with the California Speech-Language Pathology and Audiology Board. Employment opportunities exist in health care and education settings where the Speech-Language Pathology Assistant must be supervised by a licensed Speech-Language Pathologist.

CRIMINAL BACKGROUND CHECK

Clearance of a criminal background check may be required prior to field experience. Students who do not clear agency requirements are not eligible for clinical placement and will, consequently, be ineligible to continue in the course. If there is any concern regarding clearance of a criminal background check, please contact the Health Occupations Division for additional information.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

A minimum of 60 degree applicable units including the following required courses completed with a grade of "C" or better must be completed to qualify for the AA Degree.

REQUIRED COURSES:**UNITS****First Year****First Semester**

CD 110	Child Development	3
CDEC 113	The Child, Family, and Community	3
EDT 104	Word Processing for Educators	2
SLP 100	Introduction to Speech-Language Pathology	3
SLP 110	Normal Communication, Disorders & Differences	4

15
First Year**Second Semester**

CD 139	Observation, Assessment and Positive Guidance of Childhood Behavior	3
CDSE 50	Survey of Special Education	3
SPCH 271	Voice and Articulation	3
SLP 120L	Phonetics Lab	1
SLP 125	Childhood Disorders and Treatment	5

15

Second Year**First Semester**

SL 101	Beginning American Sign Language	3
SPCH 229	Speech & Language Development in Children	3
SLP 230	Adaptive Communication Technology	1.5
SLP 235	Adult Disorders and Treatment	5
		12.5

Second Year**Second Semester**

SL 102	Intermediate American Sign Language	3
SLP 240	Childhood Field Experience	2.5
SLP 245	Adult Field Experience	2.5
		8.0
Total Units		50.5

Recommended Elective: A&P 120

See Cerritos College Graduation Requirements

Individuals holding B.A. in Communication Disorders should make an appointment with the SLPA Department Chair prior to enrollment in SLP 240 and SLP 245. Enrollment is contingent upon satisfactory completion of the placement process.

TEACHING CREDENTIAL PREPARATION

The State of California provides for a two-step, five-year program leading to the Professional Clear Teaching Credential. A student may complete the requirements for a Preliminary Clear Credential within an approved professional preparation program including student teaching and may be employed at that point, providing all requirements have been met (except the fifth year). Within five years, the student must complete an additional year of study. At that point, a Professional Clear Teaching Credential is granted. The required lower division courses may be completed at Cerritos College. For more information, log on to the California Commission on Teaching Credentialing website at www.ctc.ca.gov and the TEACH California Website at www.calteach.com.

SINGLE SUBJECT INSTRUCTION CREDENTIAL**(Primarily for Secondary Schools)**

A teacher authorized for Single Subject instruction may be assigned to teach this subject at any grade level--pre-school through classes for adults. In practice, most teachers with Single Subject authorization teach in junior or senior high schools, grades 7-12.

A candidate lacking this major background may validate competency by passing an examination in a specified subject matter category. No minor is required.

MULTIPLE-SUBJECT INSTRUCTION CREDENTIAL**(Liberal Studies/Elementary School Teaching)**

A teacher authorized for Multiple Subject instruction may be assigned to teach in any self-contained, multiple subject classroom—pre-school through classes for adults. In practice, most teachers with Multiple Subject authorization teach in Early Childhood and Elementary Education, pre-school through grade six.

Completion of the courses recommended below will partially satisfy requirements for the Liberal Studies elementary school teaching option offered at the indicated CSU's and UCR. The courses are part of a curriculum that can be started at a community college and completed at the CSU or UCR. The entire curriculum is designed for

individuals who seek the pre-professional subject matter preparation for elementary school teaching consistent with the standards established by the California Commission on Teacher Credentialing.

According to California law, any major can be selected to partially satisfy elementary school teacher preparation requirements. A Liberal Studies major however, is recommended because it provides the best preparation for future elementary school teachers. At most universities, the Liberal Studies major incorporates professional and subject matter content included in the California Teaching Standards for elementary school instruction.

With the recent enactment of the No Child Left Behind federal regulations, school districts are now requiring a passing score on the California Subject Examination for Teachers (CSET) for all new teachers hired. It is recommended that students take the CSET after transfer, per the advice of university department or credential advisors. The CSET is administered by the National Evaluation System, Inc. It is a five-hour test consisting of three separate subtests, each containing both multiple-choice and essay questions. Subtest I measures knowledge in reading, language and literature, history and social science; Subtest II covers science and mathematics; and Subtest III includes physical education, human development; visual and performing arts. Once a subtest has been passed, it does not have to be taken again, as long as the score is used toward certification within five years of the testing date. For further information on the CSET, visit the CSET website at www.cset.nesinc.com.

Students who wish to choose an academic major other than Liberal Studies in order to prepare for elementary school teaching should schedule an appointment with a counselor.

Students who choose a liberal arts major in order to benefit from a broad interdisciplinary liberal arts education and do not wish to pursue elementary school teaching should see a Cerritos College counselor for advisement. Requirements may vary from those listed below.

An Associate in Arts Degree in liberal studies is not available at Cerritos College. Students may however, declare Liberal Arts & Science-General, as a major.

CBEST

It is recommended that students seeking a teaching credential take the CBEST (California Basic Educational Skills Test) the semester before transferring to a university. The CBEST is an entrance requirement for most university credential programs. The CBEST verifies proficiency in reading, mathematics, and writing. Passing the CBEST is a requirement for obtaining a teaching credential issued by the California Commission on Teacher Credentialing and is required prior to student teaching. A test fee is required. For more information, log onto www.cbest.nesinc.com.

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

See individual CSU's listed below for additional courses.

English 100
English 103
Biology 120 (Except CSU Los Angeles)
History 102
History 120 (Except CSU Los Angeles)
Geography 105 (Except CSU Los Angeles)
Child Development 110
Speech 130
Earth Science 110
Math 110A and 110B (Except CSU Fullerton)
Political Science 101
History 245
Music 105 (Except CSU Los Angeles)

California State University – Dominguez Hills

Important Notice: Requirements may be updated. New students beginning to take courses for transfer to Liberal Studies Program should consult with a counselor or contact the Liberal Studies Program for current information.

English 100
Speech 103
Any Plan B Physical Science (ESCI 110 or PS 112 recommended)
Biology 120
Math 110A
Art 100
Music 105 or PE 191
English 222
History 101, 102, or 103
Political Science 101 or 201
GEOG 105
CD 110

LIBERAL STUDIES (B.A.): INTEGRATED OPTION

*The Liberal Studies: Integrated Option (INTOP) makes available an accelerated program combining the requirements for a bachelors degree and a multiple subject teaching credential. Participants complete undergraduate Liberal Studies and post-baccalaureate Teacher Education coursework concurrently.

Please see a counselor for more information.

California State University – Fullerton

Students can complete requirements to prepare to become elementary school teachers in multiple ways at CSU Fullerton. They can major in Child and Adolescent Development or Liberal Studies and complete the traditional curriculum or they can major in Child and Adolescent Development or Liberal Studies and complete the STEP curriculum (see description of STEP below). Please see a counselor, and consult www.assist.org for the major requirements for Child and Adolescent Development or Liberal Studies, depending on the preparation program you choose.

STREAMLINE TEACHER EDUCATION PROGRAM (STEP)

STEP is the Streamlined Teacher Education Program designed for students to earn their Bachelor's degree and Multiple Subject Credential in a reduced number of units. The courses (see STEP below) and grade point average (GPA) for this program are very specific. Some courses require a specific grade (see below). Please see a Center for Careers in Teaching (CCT) Advisor for additional information, (714) 278-7130

Speech 100, 120, 130 (preferred), 132 or 150
English 100
English 101, 103, Philosophy 106, Philosophy 103, Psychology 103
or Speech 235
Chemistry 105
Physical Science 112
Earth Science 110
Biology 120
Any Math course from area B.3*
Music 100, Music 105, Theatre 101
English 230A, 230B, 246A, 246B, 248A or 248B
History 245
History 102
English 106
Political Science 101

Geography 105
Child Development 110 or Psychology 251
Education/Elementary School Teachers 100 & 200
English 222
History 120

+ Courses are restricted to official Teacher TRAC studies only.

+++For the latest information or clarification about program requirements, either call the Center for Careers in Teaching (714-278-7130) or check the CCT website at www.fullerton.edu/cct. Community college students are advised to attend an information seminar at CSUE. Students are advised to bring transcripts. Seminar dates are on the website.

California State University – Los Angeles

Speech 130
English 100
English 103
Philosophy 103 or 106 or Speech 235
Chemistry 105 or 100
Earth Science 110 or Geology 101
Physical Science 112 or Physics 100
Biology 120
Math 105
Math 110A
Math 110B
English 102 or 245
History 102
Political Science 101 or 201
Physical Education 141
Child Development 110

California State University – Long Beach Teacher TRAC/ITEP Curriculum

The Teacher TRAC curriculum fulfills most lower division requirements for CSULB's Integrated Teacher Education Program. Upon completion of ITEP a student will meet requirements for both a B.A. in Liberal Studies and preliminary multiple subject teaching credential for teaching grades K through 6th, without having to enroll in a year-long credential program. To be eligible for Teacher TRAC, students must have a minimum 2.50 GPA and be ready to enroll for Math 60 and English 52. Applications and further information are available at the Teacher TRAC Center and at the Teacher TRAC Web site, www.teachertrac.com.

Biology 120
Chemistry 105
Child Development 110
Earth Science 110
Education/Elementary School Teachers 100+
Education/Elementary School Teachers 200+
Educational Technology 110
English 100
Geography 105
History 120
History 102
History 245
Math 105
Math 110A
Math 110B
Music 105
Physical Science 112

Political Science 101
 Speech 130
 Theatre 101
 English 102, 230A, 230B, 246A, 246B, 248A, or 248B
 English 103, Philosophy 103, 106, 202, or Speech 235
 Philosophy 100, 102, or 200

+Courses are restricted to official Teacher TRAC students only.

Traditional Curriculum

The following courses meet lower division requirements for the traditional teacher preparation program consisting of BA and yearlong credential program. Teacher TRAC requirements differ from those below.

English 100
 Speech 130
 English 103, Philosophy 106, 103, or Speech 235
 Earth Science 110 or Geology 101
 Physical Science 112
 Math 110A and 110B
 Music 105
 Theatre 101 or PE 191
 English 102, 230A, 230B, 246A, 246B, 248A, or 248B
 Philosophy 100, 102 or 200
 English 222 or Speech 145
 History 102
 Political Science 101 or 201
 Anthropology 100
 Geography 105
 History 120
 History 245 or 246
 Psychology 101
 Child Development 110

Note: CSULB WAIVES AREA E* FOR TEACHER TRAC/ITEP AND TRADITIONAL LIBERAL STUDIES MAJORS

*REFERS TO DESIGNATED AREAS OF THE CSU GENERAL EDUCATION CERTIFICATION REQUIREMENTS

California State University – Riverside

There are no mandatory lower division courses for the UCR Liberal Studies major. The courses listed below have been determined by the UCR faculty as courses that will best prepare students for the CSET.

English 100
 English 103, Philosophy 103, or Psychology 103
 Biology 120
 Geography 101 and Geog 101L
 Dance 105
 Math 150
 Art 110, 130A, or 136
 Music 101
 Theatre 101 or 110
 English 106
 English 230A
 English 248A
 History 102
 Political Science 101
 Anthropology 100, 203
 History 245
 History 246

Sociology 101
 Physical Education 180
 Health Education 100
 Women's Studies 101 or 205
 Physics: Complete one UC transferable course in physics (minimum 3 semester or 4 quarters units)
 Chemistry: Complete one UC transferable course in chemistry (minimum 3 semester or 4 quarter units)
 + UC credit limitation. See counselor for details
 For additional information, please check the ASSIST website at www.assist.org.

THEATRE ARTS

ASSOCIATE IN ARTS DEGREE PROGRAM

The following Broadcast program of study has been designed to prepare students for an AA Degree. Students interested in preparing for a Bachelor's Degree at a four-year college are referred to the Theatre Arts Transfer Program.

ACTING OR TECHNICAL EMPHASIS 32 UNITS MINIMUM UNITS

TH 101	Introduction to the Theatre	3
TH 102	History of the Classical Theatre	3
TH 103	History of the Modern Theatre	3
TH 110	Fundamentals of Acting	3.5
TH 130	Rehearsal/Performance for the Minor Role	1
TH 131	Rehearsal/Performance for the Supporting Role	2
TH 132	Rehearsal/Performance for the Leading Role	3
TH 133	Stage Crew Activity	1
TH 134	Technical Production	2

CHOOSE ONE:

TH 111	Intermediate Acting to Characterization	3.5
TH 114	Voice for Acting	2
TH 115	Stage Movement and Combat	3

CHOOSE TWO:

TH 120	Theatre Stagecraft	3
TH 221	Costuming for the Stage	3
TH 222	Stage Lighting	3

PLUS SIX (6) UNITS FROM AT LEAST TWO OF THE FOLLOWING:

TH 108	Improvisation for the Theatre	3.5
TH 111	Intermediate Acting to Characterization	3.5
TH 114	Voice for Acting	2
TH 115	Movement for the Actor	3
TH 120	Theatre Stagecraft	3
TH 123	Stage Make-Up	3
TH 136	Community Theatre Production	2
TH 212	Scene Study	3.5
TH 213	Historical Styles of Acting	3
TH 221	Costuming for the Stage	3
TH 222	Stage Lighting	3
TH 226	Introduction to Scene Design	2
MUS 146	Recording Techniques	2

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

A minimum of 60 units must be completed to include: 1) one of the options above, 2) AA Degree general education requirements, and 3) electives as needed.

CAREER OPPORTUNITIES: Acting, announcing, directing, scriptwriting, reporting, construction and painting technician, costume construction technician, lighting and design technician, media/sound recording technician, theatre and media production assistant, playwriting, theatre management and box office worker, stage and media publicity technician.

See Cerritos College Graduation Requirements.

THEATRE ARTS TRANSFER PROGRAM

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

	UNITS
TH 101 Introduction to the Theatre	3
TH 110 Fundamentals of Acting	3.5

Note: The Theatre Arts program strongly suggests taking between six to eight courses of college preparatory English as well as speech, diction, singing, dance, fencing, and physical education.

California State University – Fullerton

Acting Emphasis:

TH 101	Introduction to the Theatre	3
TH 111	Intermediate Acting to Characterization	3.5
TH 114	Voice for Acting	2
and TH 115	Stage Movement and Combat	3
TH 120	Theatre Stagecraft	3
or TH 221	Costuming for the Stage	(3)
or TH 226	Introduction to Scenic Design	(2)
TH 123	Stage Make-Up	3
TH 212	Scene Study	3.5

TH 101, TH 111, TH 114 and TH 115, and TH 212 must be completed with grades of "B" or better.

Technical Production/Design Emphasis:

TH 101	Introduction to the Theatre	3
TH 120	Theatre Stagecraft	3
TH 123	Stage Make-Up	3
TH 221	Costuming for the Stage	3
TH 226	Introduction to Scenic Design	2
SPCH 140	Oral Interpretation of Literature	3

Other Performance and Production emphasis: Directing; playwriting; and Entertainment Studies; Additional Concentrations: Liberal Arts and Teaching. Please see a counselor for other emphasis, concentrations, and other Bachelor of Fine Arts requirements

California State University – Los Angeles

TH 110	Fundamentals of Acting	3.5
TH 114	Voice for Acting	2
TH 145	Costume Production for Dance	1
DANC 108A	Dance, Modern, Beginning	2
DANC 130	Choreography	2
and DANC 135	Dance Workshop	2
DANC 106A	Beginning Ballet	2

Theatre Arts option (in addition to above requirements):

TH 111	Intermediate Acting to Characterization	3.5
TH 120	Theatre Stage Craft	3
TH 212	Scene Study	3.5

Note: Students are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will also meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

California State University – Long Beach

TH 110	Fundamentals of Acting	3.5
TH 115	Stage Movement and Combat	3
TH 120	Theatre Stage Craft	3
TH 123	Stage Make-Up	3
TH 221	Costuming for the Stage	3
TH 222	Stage Lighting	3

Theatre Options: Performance; Technical Theatre

Note: At the beginning of the semester, all incoming students are required to audition or interview for admittance to certain upper division classes and are therefore used for appropriate placement of students at their level of competency.

University of California – Irvine

Drama Major:

TH 102	History of the Classical Theatre	3
and TH 103	History of the Modern Theatre	3
TH 110	Fundamentals of Acting	3.5
and TH 111	Intermediate Acting to Characterization	3.5
TH 120	Theatre Stage Craft	3
TH 221	Costuming for the Stage	3
or TH 222	Stage Lighting	(3)
or TH 226	Introduction to Scenic Design	(2)

University of California – Los Angeles

These courses are not formally articulated but provide recommended preparation for the program:

TH 110	Fundamentals of Acting	3.5
TH 114	Voice for Acting	2
TH 115	Stage Movement and Combat	3
TH 133	Stage Crew Activity	1
TH 212	Scene Study	3.5
TH 221	Costuming for the Stage	3
TH 222	Stage Lighting	3

Fall Admissions Only. Admission requirements include required supplemental materials such as a questionnaire, personal essay, resume and an audition/interview. For more information see www.tft.ucla.edu. In addition, students must complete general education coursework prior to transfer.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete the following: (1) Above transfer requirements, (2) the AA Degree general Education requirements, and (3) electives to achieve a minimum of 60 units.

CAREER OPPORTUNITIES: Preparation for the Theatrical profession as performer, technician, costuming, lighting, make-up, scenery director, and technical director in such areas as the professional theatre, community theatre, recreational theatre, children's theatre, and educational theatre.

See Cerritos College Graduation Requirements.
See State University General Education List.

WELDING**CERTIFICATE OF ACHIEVEMENT**

Welding Technology Certificates of Achievement are available under three options: Arc Welding, Gas Tungsten Arc Welding, and Pipe Welding. The basic core courses must be taken for all three certificate options.

WELDING BASIC CORE COURSES

		UNITS
WELD 39	Welding Shop Math	2
WELD 50	Blue Print Reading for the Welding Trades	3
WELD 120	Beginning Arc Welding	4
WELD 170	Structural Fabrication	2
or WELD 53	Pipe Layout	(2)
		11

NOTE: The WELD 39 requirement for a Certificate of Achievement may be met with a satisfactory score on the Math Placement Test.

ARC WELDING OPTION

WELD 200	Intermediate Arc Welding	4
WELD 210L	Arc Welding Applications	2
WELD 220	Certification and Licensing for Welders	2
		19

NOTE: The student must also pass the L.A. City or AWS certification for structural steel with both the SMAW and FCAW processes. These certifications may be obtained through the Welding Department.

INERT GAS WELDING OPTION

WELD 130	Gas Tungsten Arc Welding Fundamentals	4
WELD 240	Advanced Gas Tungsten Arc Welding Lab (2 labs required)	4
WELD 250L	Gas Tungsten Arc Welding Applications (2 labs required)	4
		23

PIPE WELDING OPTION

WELD 52	Pipe Welding Fundamentals	4
WELD 54L	Advanced Pipe Welding	2
WELD 200	Intermediate Arc Welding	4
WELD 210L	Arc Welding Applications	2
		23

NOTE: The student must also pass the ASME section IX6G performance exam available through the Welding Department.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

The student must complete one of the certificate options and electives and general education to achieve a minimum of 60 units.

RECOMMENDED ELECTIVES: MTT 100, WELD 55, WELD 60, WELD 100

CAREER OPPORTUNITIES: Welder, welding inspector, welding technician or fitter, pipe fitter, sheet metal mechanic, and maintenance mechanic. Welders are employed in aircraft industries, shipyards, job shops, pipeline construction, and building construction.

See Cerritos College Graduation Requirements.

**WILDLIFE MANAGEMENT AND CONSERVATION
TRANSFER PROGRAM****LOWER DIVISION MAJOR PREPARATION
FOR HUMBOLDT STATE UNIVERSITY**

		UNITS
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 110	Elementary Chemistry	5
or CHEM 111	General Chemistry	(5)
CHEM 112	General Chemistry	5
or PHYS 101	General Physics	(4)

See a counselor for option in Conservation Biology/Applied Vertebrate Ecology.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the above required courses and (2) the Associate in Arts Degree general education requirements.

CAREER OPPORTUNITIES: After transfer to a four-year college or university and completion of the Bachelor's Degree program, graduates qualify for graduate study and for employment with both public and private agencies in wildlife management and/or fisheries biology.

See Cerritos College Graduation Requirements.
See State University General Education List.

**WOMEN'S STUDIES
ASSOCIATE IN ARTS DEGREE****MAJOR REQUIREMENTS**

	UNITS
COMPLETION OF 18 UNITS IN WOMEN'S STUDIES COURSES CORE COURSES (WS 101 MUST BE TAKEN)	

WS 101	Issues for Women in American Society (Women's Studies)	3

Select two courses from this section (6 units):**Global Emphasis:**

ANTH 100	Cultural Anthropology (Women's Studies)	3
ANTH 205	The Anthropology of Sexuality and Gender (Women's Studies)	3
ART 109/HUM 109	Gender and Sexuality in Art (Women's Studies)	3
ECON 102	Women in Global Economy (Women's Studies)	3

Curricula, Requirements for Majors, Certificates and Transfer Programs

ENGL 236	Studies in Women's Literature (Women's Studies)	3
PHIL 103	Critical Thinking and Argumentative Writing (Women's Studies)	3
WS 102	Women and Religion (Women's Studies)	3
WS 205	Sexuality and Gender (Women's Studies)	3
WS 206	Women in the Global Economy	3

Select at least 9 units from this section:

U.S. Emphasis:

ECON 202	Principles of Microeconomics (Women's Studies)	3
ENGL 100	Freshman Composition (Women's Studies)	4
ENGL 224	Native American Literature (Women's Studies)	3
HED 103/WS 103	Women, Their Bodies and Health (Women's Studies)	3
HIST 204/WS 204	Women in American History (Women's Studies)	3
PE 106 or WS 106	Women in Sports (Women's Studies)	3
PE 160	Personal Self Defense (Women's Studies)	1
POL 101	American Political Institutions (Women's Studies)	3
PSYC 265	Psychology of Gender (Women's Studies)	3
SPCH 120	Fundamentals of Interpersonal Communication (Women's Studies)	3
SOC 101	Introductory Sociology Principles (Women's Studies)	3
SOC 202/WS 202	Gender in Society (Women's Studies)	3
SOC 110	Marriage and the Family (Women's Studies)	3
WS 104	Community Organizing and Activism (Women's Studies)	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

To qualify for a degree in Women's Studies, students must take courses listed above that are designated as having Women's Studies emphasis and complete all AA degree general education requirements for a total of at least 60 units.

WOODWORKING MANUFACTURING TECHNOLOGIES CERTIFICATE OF ACHIEVEMENT PROGRAM

WMT BASIC CORE COURSE

	UNITS
WMT 101	Introduction to Woodworking
WMT 102	Introduction to Solid Wood Casegoods
WMT 103	Introduction to Tables
WMT 107	Wood Finishing
WMT 118	Introduction to Woodturning
WMT 130	Furniture Design
WMT 151	Introduction to Faceframe Cabinetmaking
WMT 153	32mm System of Cabinetmaking

WMT 155	Architectural Millwork	4
WMT 181	Introduction to Computer Operations for Cabinetmaking and Design	3
WMT 201	Woodworking with Hand Tools	4
TOTAL CERTIFICATE UNITS		38

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete 60 units to include (1) the above Certificate of Achievement requirements, (2) BA 41, (3) the Associate in Art Degree requirements, and (4) electives as needed.

RECOMMENDED ELECTIVES: WMT 132, WMT 134, WMT 148, WMT 153, WMT 171, WMT 202, WMT 211, WMT 212, WMT 248, WMT 249L, WMT 251, WMT 253, WMT 268, WMT 281.

CAREER OPPORTUNITIES: Upon completion of the program, a student is prepared to design, construct, and produce cabinet and furniture products to industry standards.

See Cerritos College Graduation Requirements.

WOODWORKING MANUFACTURING TECHNOLOGY CABINETMAKING CERTIFICATE OF ACHIEVEMENT

WMT BASIC CORE COURSES

	UNITS
WMT 107	Wood Finishing
WMT 151	Introduction to FaceFrame Cabinetmaking
WMT 153	32mm System of Cabinetmaking
WMT 155	Architectural Millwork
WMT 181	Introduction to Computer Operations for Cabinetmaking and Design
WMT 250	Intermediate FaceFrame Cabinetmaking
WMT 252	Intermediate 32mm System Cabinetmaking
WMT 268	A,B, or C Production Cabinetmaking

CHOOSE FROM THE FOLLOWING FOR A MINIMUM OF (6) UNITS:

WMT 102	Introduction to Solid Wood Casegoods	4
WMT 157	Passage Door	4
WMT 159	Solid Surface Fabrication	3
WMT 201	Woodworking with Hand Tools	4
WMT 203	Wood Veneering	4
WMT 251	Advanced FaceFrame Cabinetmaking	4
WMT 253	Advanced 32mm System of Cabinetmaking	4
WMT 258	Mantels and Wall Systems	4

TOTAL CERTIFICATE UNITS	37

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include the above Certificate of Achievement requirements, the Associate in Art Degree requirements, and electives as needed.

RECOMMENDED ELECTIVES: WMT 159, WMT 201, WMT 258

CAREER OPPORTUNITIES: Upon completion of the program, a student is prepared to design, construct, and produce cabinet products to industry standards. Cabinetmakers are employed in Woodworking, Construction, Aircraft, and many other industries. Many Cabinetmakers own and operate private business.

See Cerritos College Graduation Requirements

WOODWORKING MANUFACTURING TECHNOLOGIES FURNITURE MAKING CERTIFICATE OF ACHIEVEMENT

WMT BASIC CORE COURSE

	UNITS
WMT 101 Introduction to Woodworking	3
WMT 102 Introduction to Solid Wood Caseworks	4
WMT 103 Introduction to Tables	4
WMT 107 Wood Finishing	3
WMT 130 Furniture Design	3
WMT 132 Chair Design & Construction	4
WMT 201 Woodworking with Hand Tools	4

AND NINE (9) UNITS SELECTED FROM THE FOLLOWING COURSES:

WMT 115 Scrollwork Fretwork and Intarsia	2
WMT 118 Wood Turning	2
WMT 137 Outdoor Furniture	2.5
WMT 202 Advanced Furniture Caseworks	4
WMT 203 Wood Veneering	3
WMT 204 Advanced Furniture Caseworks	4
WMT 211 The Workbench Class	4
WMT 233 Morris Chair	4
WMT 241 Special Topics in Handtools	2
WMT 244 Chest of Drawers	4
WMT 246 Rocking Chair	4
WMT 248 Production Furniture Making and Manufacturing	4
WMT 258 Mantels and Wall Systems	4

TOTAL CERTIFICATE UNITS 34

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 61 units to include (1) the above Certificate of Achievement requirements, (2) the Associate in Art Degree requirements, and (3) electives as needed.

RECOMMENDED ELECTIVES: WMT 233, WMT 244, WMT 248

CAREER OPPORTUNITIES: Upon completion of the program, a student is prepared to design, construct and produce furniture products to industry standards.

See Cerritos College Graduation Requirements.

ZOOLOGY TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND UNIVERSITY OF CALIFORNIA

	UNITS
BIOL 200 Principles of Biology	5
BIOL 201 Principles of Biology	5
CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5
PHYS 101 General Physics	4
PHYS 102 General Physics	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Long Beach

(Option within the Biology major)

MICR 200 Principles and Applications of Microbiology	5
or GEOL 101 The Earth Environment	(4)
or ESCI 110 Introduction to Earth Science	(4)
MATH 170 Analytic Geometry and Calculus I	4
or MATH 116 Calculus for Managerial, Biological and Social Science	(4)
MATH 190 Analytic Geometry and Calculus II	4

The Zoology major at CSULB includes additional lower division courses not articulated with Cerritos College.

California State Polytechnic University – Pomona

CHEM 211 Organic Chemistry	5
CHEM 212 Organic Chemistry	5
ENGL 102 Freshman Composition and Literature	3
or ENGL 103 Critical and Argumentative Writing	(3)
HED 100 Contemporary Health Problems	3
or PSYC 101 General Introductory Psychology	(3)
or PSYC 150 Personal and Social Adjustment	(3)
or PSYC 241 Introduction to Psychobiology	(3)
MATH 112 Elementary Statistics	4
MATH 116 Calculus for Managerial, Biological and Social Science	4

The Zoology major at Cal Poly Pomona includes additional lower division courses not articulated with Cerritos College.

University of California – Santa Barbara

MATH 170 Analytic Geometry and Calculus I	4
and MATH 190 Analytic Geometry and Calculus II	4
MATH 112 Elementary Statistics	4
or MATH 240 Calculus and Differential Equations	(4)

Instead of taking MATH 170 and MATH 190, students planning to transfer to UCSB and major in Zoology may take MATH 116 however, they may take MATH 34B at UCSB after transfer.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the above required courses, (2) the Associate in Arts Degree general education requirements, and (3) electives as needed.

CAREER OPPORTUNITIES: Bachelor's Degree programs are designed to qualify the student for graduate study, entrance to medical, dental or veterinary schools, teaching through secondary schools, employment in Federal and State Civil Service, research laboratories of industrial, pharmaceutical firms, or natural museum work.

See Cerritos College Graduation Requirements.

See State University General Education List.

Announcement of Courses

This section of the catalog provides the course description for all courses approved by the Cerritos College Curriculum Committee.

All courses, unless otherwise indicated, apply for credit toward an AA Degree in accordance with California Administrative Code, Title V, Section 55805.5.

Courses that do not meet the AA Degree requirements are indicated with a statement “(Not degree applicable)” beside the course title.

Students are advised to see a counselor for clarification if they have any questions regarding the appropriateness of a course to meet their educational goal.

Please check with your counselor and the department for new developments in curriculum that have not been included in the catalog.

CALIFORNIA ARTICULATION NUMBERS (CAN)

The California Articulation Number System, known as CAN, is a means of identifying comparable courses offered at Cerritos College and other colleges in California. CAN is a system that uses the same prefix and number to identify a course on every participating campus. Each campus has its own number; the CAN is added to denote courses that can be used in lieu of each other at participating colleges. For example, if CAN BUS 2 (BUSA 101) is completed at Cerritos College, that course will be accepted as a course that is designated as CAN BUS 2 at another college campus.

A CAN-identified course assures that a course is not only transferable, but will be used on the receiving campus in the same way as its own CAN-identified course. Over 156 campuses in California are using the CAN System to assist their students in the transfer process. More than 93 Cerritos College courses carry a CAN designation. The CAN designation for Cerritos College courses is listed in the catalog with course descriptions. (See BUSA 101). Additional information is available from a counselor or from the articulation officer in Counseling.

LEARNING COMMUNITY COURSE OFFERINGS

The LC suffix attached to a course number denotes that the course was offered in a Learning Communities format. Courses with an LC suffix are equivalent in content to courses without the LC suffix.

BUSINESS DIVISION

(562) 860-2451 EXT. 2715

Business Accounting
Business Administration
Business Communications
Business Computerized Office Technologies
Business Finance
Business Insurance
Business Law
Business Paralegal
Business Real Estate
Court Reporting and Captioning Careers
International Studies

COUNSELING & GUIDANCE DIVISION

(562) 860-2451 EXT. 2126

Counseling & Guidance

FINE ARTS & COMMUNICATIONS DIVISION

(562) 860-2451 EXT. 2600

Art and Design
Humanities
Mass Communications
Music
Photography
Radio/TV
Theatre Arts

HEALTH OCCUPATIONS DIVISION

(562) 860-2451 EXT. 2550

Child Development
Child Development/Early Childhood
Child Development/Family Child Care
Child Development/Infant Toddler
Child Development/Parent Education
Child Development/School Age
Child Development/Special Education
Culinary Arts
Dental Assisting
Dental Hygiene
Health Occupations
Emergency Medical Technician
Medical Front Office
Medical Assistant
Nursing
Pharmacy Clerk
Pharmacy Technician
Physical Therapist Assistant
Speech-Language Pathology Aide
Speech-Language Pathology Assistant

HPE/ATHLETICS

(562) 860-2451 EXT. 2862

Health Education
Physical Education/Athletics

HUMANITIES AND SOCIAL SCIENCES DIVISION

(562) 860-2451 EXT. 2752

Administration of Justice
Anthropology
Economics
Education/Elementary School Teaching
History
Humanities
Interdisciplinary Studies
Philosophy
Political Science
Psychology
Sociology
Women's Studies

LIBERAL ARTS DIVISION

(562) 860-2451 EXT. 2858

English
English as a Second Language
French
German
Japanese
Reading
Sign Language
Spanish
Speech

SCIENCE, ENGINEERING, AND MATHEMATICS DIVISION

(562) 860-2451 EXT. 2660

Anatomy & Physiology
Astronomy
Biology
Botany
Chemistry
Computer and Information Sciences
Earth Science
Energy
Engineering
Geography
Geology
Mathematics
Microbiology
Physical Science
Physics
Zoology

TECHNOLOGY DIVISION

(562) 860-2451 EXT. 2900

Architecture
Automotive Collision Repair
Automotive Mechanical Repair
Cosmetology
Electronics
Engineering Design Technology
Machine Tool Technology
Manufacturing Technology
Metallurgy & Material Science
Plastics Manufacturing
Technical Mathematics
Welding
Woodworking Manufacturing Technologies

INNOVATION AND ACADEMIC SUPPORT

(562) 860-2451 EXT. 2797

Educational Technology

BUSINESS ACCOUNTING

ACCOUNTING

(Business Division)

ACCT 1T (Not Degree Applicable)

ACCOUNTING MICROCOMPUTER TUTORIAL

0.5 UNIT

Class hours: 2.0 Laboratory
Corequisite: Enrollment in one or more Accounting or Finance course.

This course is designed to provide individual tutorial instruction for students studying computerized accounting to facilitate and reinforce their ability to complete assigned computerized projects. This course may be taken a maximum of 4 times. (Formerly BUSA 1T)

ACCT 2T (Not Degree Applicable)

ACCOUNTING TUTORIAL

0.5 UNIT

Class hours: 2.0 Laboratory
Corequisite: ACCT 100, ACCT 101, or ACCT 102.

This course is designed to provide individualized tutorial instruction with assigned problems and practice sets for introductory accounting students. This course may be taken a maximum of 4 times. (Formerly BUSA 2T)

ACCT 51

VOLUNTEER INCOME TAX ACCOUNTING

1.5 UNITS

Class hours: 1.0 Lecture/1.5 Laboratory
Prerequisite: ACCT 61 or ACCT 250 or equivalent with a grade of Pass or "C" or higher.
This course is designed to give students the knowledge and skills necessary to prepare simple federal income tax returns, on a volunteer basis, to low-income and disadvantaged members of the community. With the guidance of the instructor and Internal Revenue Service agents, students will gain experience in interviewing techniques and will apply skills learned in tax preparation while providing a much-needed service to their community. (Formerly BUSA 51)

ACCT 60

QUICKBOOKS ACCOUNTING

2.0 UNITS

Class hours: 1.5 Lecture/2.0 Laboratory
Corequisite: ACCT 1T
This course introduces QuickBooks 6.0, a complete accounting software system for small businesses. (Formerly BUSA 60)

ACCT 61

TURBO TAX ACCOUNTING

2.0 UNITS

Class hours: 1.5 Lecture/2.0 Laboratory
Corequisite: ACCT 1T
This course introduces personal income tax preparation using Tax Return Preparation with Turbo Tax for Windows, a software package for preparing individual income tax returns. (Formerly BUSA 61)

ACCT 100

INTRODUCTION TO ACCOUNTING

3.0 UNITS

Class hours: 3.0 Lecture
This accounting course introduces the theory and practice of double entry accounting. Emphasis will be placed upon understanding the basic financial records and forms and applying elementary accounting procedures. (Formerly BUSA 100)
Transfer Credit: CSU

ACCT 101

(CAN BUS 2) (CAN BUS SEQ A)

FUNDAMENTALS OF ACCOUNTING I

4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: ACCT 100 or equivalent with a grade of Pass or "C" or higher.
This course covers the basic concepts used by businesses for financial accounting. The course includes a study of: the accounting concepts and techniques essential to the administration of a business enterprise; measuring and communicating economic information; analyzing and recording financial transactions; and the preparation of financial statements for sole proprietorships, partnerships, and corporations. (Formerly BUSA 101)

Transfer Credit: CSU; UC

ACCT 102

(CAN BUS 4) (CAN BUS SEQ A)

FUNDAMENTALS OF ACCOUNTING II

4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: ACCT 101 or equivalent with a grade of Pass or "C" or higher.
This course covers the basic concepts used by businesses for managerial accounting. The course includes a study of: managerial accounting concepts and systems; job order cost systems; analyses for managerial decision making; planning, and control techniques and principles. (Formerly BUSA 102)

Transfer Credit: CSU; UC

ACCT 130

PAYROLL TAX ACCOUNTING

3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: ACCT 100 or ACCT 101 or equivalent with a grade of Pass or "C" or higher.
This course will cover fundamental principles of payroll tax laws as defined by Federal, State, and local government. It will also include discussion of Social Security, Federal and State income taxes, Federal and State Unemployment Insurance, Workmen's Compensation Insurance, and journal entries to record payroll information. It will include sales tax requirements in record keeping and computation of sales tax returns. Insurance and union reporting are discussed. It also includes personnel records requirements, data processing, and payroll systems. It is intended to provide the business students with a working knowledge of current tax laws and practical application of the same. (Formerly BUSA 130)

Transfer Credit: CSU

ACCT 131

COMPUTERIZED

ACCOUNTING - IBM

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: ACCT 100 or ACCT 101 or equivalent with a grade of Pass or "C" or higher.
This course is designed to develop a working knowledge of basic accounting systems using an IBM compatible microcomputer and IBM compatible software. The accounting functions covered will include structuring the chart of accounts; journalizing; posting to the general ledger; accounts receivable; and accounts payable subsidiary ledgers; the structure and preparation of financial statements. In addition, forecasting, budgeting, billing, cash, inventory and payroll modules will be utilized. This course will give students practical experience on the IBM compatible microcomputer. (Formerly BUSA 131)

Transfer Credit: CSU

ACCT 133

SPREADSHEET ACCOUNTING I

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: ACCT 100 or equivalent with a grade of Pass or "C" or higher.
This course is designed to teach students the application of accounting functions using the IBM compatible microcomputer and standard spreadsheet software. The accounting functions will include the development of financial statements, worksheets, special journals, payroll, bank reconciliations, and personal budgeting. (Formerly BUSA 133)

Transfer Credit: CSU

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ACCT 134

SPREADSHEET ACCOUNTING II 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Prerequisite: ACCT 101 and ACCT 133 or equivalent with grades of Pass or "C" or higher.

Corequisite: ACCT 11T

This course is designed to teach students the application of accounting functions using the IBM compatible microcomputer and spreadsheet accounting software. The accounting concepts will include corporation financial statements, financial ratios, manufacturing accounting, plant assets, accounts and notes receivable, inventory valuation, notes payable, budgeting, and forecasting utilizing generally accepted accounting principles. (Formerly BUSA 134)

Transfer Credit: CSU

ACCT 171

ACCOUNTING

WORK EXPERIENCE

1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Accounting Occupational Work Experience, in a declared business major. One unit of Accounting Occupational Work Experience requires 60 non-paid hours or 75 paid hours of work per semester.

Recommendation: None.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 3 times. (Formerly BUSA 171)

Transfer Credit: CSU

ACCT 172

ACCOUNTING

WORK EXPERIENCE

2.0 UNITS

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Accounting Occupational Work Experience, in a declared business major. Two units of Accounting Occupational Work Experience require 120 non-paid hours of

work or 150 paid hours of work per semester.

Recommendation: None.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 3 times. (Formerly BUSA 172)

Transfer Credit: CSU

ACCT 173

ACCOUNTING

WORK EXPERIENCE

3.0 UNITS

Class hours: 1 hour/week coordination class.

Corequisite: Enrollment in 7 or more units, including Accounting Occupational Work Experience, in a declared business major. Each 75 hours of paid work equals one semester of credit or 60 hours of non-paid work equals one semester of credit at the training site.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BUSA 173)

Transfer Credit: CSU

ACCT 174

ACCOUNTING

WORK EXPERIENCE

4.0 UNITS

Class hours: 1 hour/week coordination class.

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience, in a declared business major. Each 75 hours of paid work equals one semester of credit or 60 hours of non-paid work equals one semester of credit at the training site.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BUSA 174)

Transfer Credit: CSU

ACCT 201

INTERMEDIATE

ACCOUNTING I

4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: ACCT 102 or equivalent with a grade of Pass or "C" or higher.

This course covers the preparation of accounting statements and the study of accounting theory, utilizing the corporation form of business organizations. The emphasis of the course is on the sequential study of the various classifications and items of the balance sheet, including current and non-current assets. (Formerly BUSA 201)

Transfer Credit: CSU

ACCT 202

INTERMEDIATE

ACCOUNTING II

4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: ACCT 201 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of ACCT 201. It is an in-depth study of the balance sheet items relating to non-current assets, current liabilities, long-term liabilities, paid-in capital and retained earnings. The course includes techniques of comparative analysis; interpretation and

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projection of financial statements, funds-flow and cash-flow reporting; and the study of A.P.B.'s (Accounting Principles Board Bulletins) and F.A.S.B.'s (Financial Accounting Standard Board pronouncements). (Formerly BUSA 202)

Transfer Credit: CSU

ACCT 230 ADVANCED PAYROLL ACCOUNTING 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ACCT 130 or equivalent with a grade of Pass or "C" or higher.

Corequisite: ACCT 1T.

This course is designed to build on the basic payroll knowledge and skills gained in the Payroll Tax Accounting course. It covers advanced topics in payroll systems analysis, payroll administration, accounting for cafeteria plans, flexible spending accounts, tax deferred savings accounts and retirement plans. Taxation of fringe benefits, health, accident and disability benefits, and expatriot payments are explored. Methods of developing compensation plans are also discussed. This course is applicable to those students who plan to take the Certified Payroll Professional examination sponsored by the American Payroll Association. (Formerly BUSA 230)

Transfer Credit: CSU

ACCT 231 CURRENT TOPICS IN PAYROLL ACCOUNTING 1.5 UNITS

Class hours: 1.5 Lecture

This course is designed to give payroll accounting students exposure to experts in federal and state

payroll tax law, Workers' Compensation Insurance, union payroll, labor and fair employment law, sales taxes and payroll administration. The course is structured as a current topics seminar with guest speakers from the legal field, the Internal Revenue Service, the Franchise Tax Board, the State Board of Equalization, the Employment Development Department, The California Society of Certified Public Accountants, and Certified Payroll Professionals. This course may be taken for a maximum of 2 times. (Formerly BUSA 231)

Transfer Credit: CSU

ACCT 240 COST ACCOUNTING 4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: ACCT 100 or ACCT 101 or equivalent with a grade of Pass or "C" or higher.

This course covers the various methods of cost accounting in use by manufacturing concerns. The details of accounting for materials, labor,

and manufacturing overhead costs and expenses are presented. A study is made of the use of job order cost systems, process cost systems, and standard cost systems. The related areas of budgeting, break-even, and profit-volume analysis by management are included. A practice set is used. (Formerly BUSA 240)

Transfer Credit: CSU

ACCT 241 MANAGERIAL ACCOUNTING 4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: ACCT 101 and ACCT 102 or equivalent with grades of Pass or "C" or higher.

This course introduces the managerial accounting concepts and principles that will enable the student to understand managerial accounting as it is applied in serving management needs. Topics include: fundamentals of managerial accounting; managerial accounting concepts and systems; managerial accounting planning and control; accounting for decentralized operations; analyses for decision making; modern uses of managerial accounting. (Formerly BUSA 241)

Transfer Credit: CSU

ACCT 250 INCOME TAX ACCOUNTING 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ACCT 100 or ACCT 101 or equivalent with a grade of Pass or "C" or higher.

This course is a practical study of the current Federal revenue acts as they relate to business and individual income tax procedures. It includes income inclusions and exclusions, exemptions, capital gains and losses, and business and individual deductions. This course reflects the tax laws of the Tax Reform Act of 1986, Public Law 99-514 of October 22, 1986. (Formerly BUSA 250)

Transfer Credit: CSU

ACCT 251 ADV INCOME TAX ACCOUNTING 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ACCT 250 or equivalent with a grade Pass or "C" or higher.

This will be a continuation of ACCT 250 and will cover taxpayers other than individuals. It is designed to fill the needs of the student who desires knowledge of the Federal Income Tax implications of partnerships, corporations, tax option corporations and a general overview of estates, trusts, and gift taxation. This course reflects the tax laws of the Tax Reform Act of 1986: Public Law 99-514. (Formerly BUSA 251)

Transfer Credit: CSU

ACCT 270 FUNDAMENTALS OF AUDITING 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ACCT 202 or equivalent with a grade of Pass or "C" or higher.

This course covers the process of examining and evaluating financial conditions and records. It is designed to provide a basis for an opinion concerning the reliability of the records, as evidenced by a written audit report. (Formerly BUSA 270)

Transfer Credit: CSU

ACCT 280 ADVANCED ACCOUNTING 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ACCT 202 or equivalent with a grade of Pass or "C" or higher.

This class covers partnership and joint venture accounting, installment sales, consolidated financial statements, bankruptcy, accounting for trusts and estates, and government and non-profit accounting. (Formerly BUSA 280)

Transfer Credit: CSU

ACCT 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

Prerequisite: A previous college course in the discipline.

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ACCT 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

Prerequisite: A previous college course in the discipline.

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes

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and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ADMINISTRATION OF JUSTICE

(Humanities, Social Science Division)

AJ 71 FIRST AID-ADMINISTRATION OF JUSTICE 2.0 UNITS

Class hours: 2.0 Lecture

This basic course in emergency first aid and cardiopulmonary resuscitation emphasizes how to recognize and render assistance to the ill or injured where there is an airway obstruction, respiratory arrest, cardiac arrest, severe bleeding, shock, actual or suspected fractures, head injuries, or other life-threatening environmental circumstances. This course meets the California Department of Health requirements as described in the California Administrative Code. A basic Red Cross Certificate will be issued to those students who successfully complete the course.

AJ 91 REPORT WRITING PROCEDURES 3.0 UNITS

Class hours: 3.0 Lecture

This course includes the procedures and practices commonly used to gather data and prepare a variety of police records. Emphasis will be placed upon the need to use correct spelling, sentence structure, punctuation and vocabulary in criminal justice reports to meet statistical, legal and prosecution requirements of the criminal justice system.

AJ 101 (CAN AJ 2) INTRODUCTION TO ADMINISTRATION OF JUSTICE 3.0 UNITS

Class hours: 3.0 Lecture

This course provides a study of the history and philosophy of the system of administration of criminal justice in the United States. It examines the various sub-systems; role expectations and their interrelationships; theories of

crime, punishment, and rehabilitation; ethics; education and training for professionalism in the system; and legal words and phrases as an aid in the communication process.

Transfer Credit: CSU; UC

AJ 102 (CAN AJ 4) CONCEPTS OF CRIMINAL LAW 3.0 UNITS

Class hours: 3.0 Lecture

This course provides an introduction to the historical development and philosophy of law and constitutional provisions; as well as crime definitions, classifications of crime, legal research, legal methodology, and concepts of law as a social force. A brief analysis of criminal intent, parties to a crime, elements of crime, corpus delicti, defenses to crimes and an introduction to laws of arrest will also be undertaken in this class.

Transfer Credit: CSU; UC

AJ 103 CRIMINAL PROCEDURES 3.0 UNITS

Class hours: 3.0 Lecture

This course provides a detailed examination of California criminal procedure, including the California court system, jurisdiction and venue, laws of arrest, grand jury proceedings, extradition, pre-trial procedures, conduct of criminal trials, rights of the defendant, post-trial motions and appeals, probation and parole.

Transfer Credit: CSU;

AJ 104 CRIMINAL EVIDENCE 3.0 UNITS

Class hours: 3.0 Lecture

This course stresses the origin, development, philosophy, and constitutional basis of evidence; constitutional and procedural considerations which affect arrest, search and seizure; kinds and degrees of evidence; the rules governing the admissibility of evidence; and judicial decisions relating to individual rights.

Transfer Credit: CSU

AJ 105 COMMUNITY RELATIONS 3.0 UNITS

Class hours: 3.0 Lecture

This course provides a study of the relationship between law enforcement agencies and the changing communities they serve. The student will compare various approaches to preventing crime and limiting the effects of crime on the individual and the community. The course will also focus on the ethics, politics and the professional image necessary to maintain positive rapport between law enforcement agencies and their communities.

Transfer Credit: CSU; UC

AJ 107 INTRODUCTION TO PROBATION AND PAROLE 3.0 UNITS

Class hours: 3.0 Lecture

This is an introductory course that explains the principles of parole and probation as a governmental function at the federal, state, and local criminal justice systems. This course is designed to show the relationship between the police and the courts, and the effects of sentencing with regards to parole, probation, and incarceration in local and state facilities. The course will explore the overlap within the system between arrest and disposition and the areas of cooperation between service providers and the public.

Transfer Credit: CSU

AJ 110 PATROL PROCEDURES AND ENFORCEMENT TACTICS 3.0 UNITS

Class hours: 3.0 Lecture

This course explores the theories, philosophies and operational concepts of Law Enforcement Field Services, and examines the role expectations of the police field officer. Emphasis is placed upon patrol, traffic and public service responsibilities and their relationship to the total criminal justice system.

Transfer Credit: CSU

AJ 112 INTRODUCTION TO SECURITY MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture

This course is an introduction to private as well as public security management. The historical, philosophical, and legal basis for security services is examined. Emphasis is placed on the role of the security organization and security personnel in modern society, concepts of professionalism and ethics, types and functions of security operations, and career pathways in security management.

Transfer Credit: CSU

AJ 130 TRAFFIC CONTROL AND INVESTIGATION 3.0 UNITS

Class hours: 3.0 Lecture

This course is an in-depth study of the California Vehicle Code, the enforcement of basic traffic laws, selective enforcement, public relations, highway safety engineering, and violator contact. Also included are accident investigation, skid mark analysis, preservation of evidence, hit and run investigation, the intoxicated driver, enforcement methods and psychology, and specialized traffic enforcement units.

Transfer Credit: CSU

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AJ 150 INTRODUCTION TO CORRECTION

3.0 UNITS

Class hours: 3.0 Lecture

This course introduces the student to the philosophy, history, functions and objectives of the system of corrections in the United States. It includes a study of correctional institutions, community based corrections, parole and probation. An overview of special problems and clientele, custody practices and procedures, and treatment technique will be stressed.

Transfer Credit: CSU

AJ 173 ADMINISTRATION OF JUSTICE OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Administration of Justice work experience 173 or 20 hours of employment per week for Administration of Justice work experience 174. The employment must be in a job related to the student's educational goal.

Prerequisite: (1) Concurrent enrollment in the Administration of Justice vocational program with 7 or more units including occupational work experience. (2) Consent of the department.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. Student who are not employed but wish to gain work experience may be placed in a non-paying position if such opportunities are available. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

AJ 180 (Not Degree Applicable) INTRODUCTION TO PRIVATE AND BUSINESS SECURITY

2.0 UNITS

Class hours: 2.0 Lecture

This course provides students with a presentation of the history and development of security services and inter-relationships with legal processes, including the organization, administration, and management of private security. The operation of security departments, including investigations into internal thefts and customer thefts, public relations, and a comparison of public and private enforcement statutes and procedures is covered. Current requirements for state security personnel and an examination of career opportunities will be discussed. Powers of arrest will be taught,

which satisfies the requirements of the State of California under Business and Professions Code Section 7514.1.

AJ 202 SUBSTANTIVE LAW

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: AJ 102 or equivalent with a grade of Pass or "C" or higher.

This course is a study of the substantive criminal laws commonly enforced by municipal, county or state police officers, or other criminal justice investigators. The course provides a complete analysis of both statutory laws and case decisions.

Transfer Credit: CSU

AJ 208 SPECIAL ISSUES IN LAW ENFORCEMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course provides instruction in special issues critical to effective service by law enforcement professionals in modern society. Topics to be covered will include police as professionals; defining and applying values, principles, and moral standards to law enforcement; police and the community; tactical communication; correctly utilizing information systems in police work; and dealing effectively with persons with disabilities.

Transfer Credit: CSU

AJ 210 LEGAL ASPECTS OF SECURITY MANAGEMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course is a study of criminal, tort, contract, and property law relative to security management.

Emphasis is placed on laws of arrest, search and seizure, detention, interrogation, and use of force as well as civil liability, property and privacy rights, procurement of information, government regulations and legal consequences of impermissible investigative conduct.

Transfer Credit: CSU

AJ 211 INVESTIGATIVE TECHNIQUES FOR SECURITY MANAGEMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course is an overview of civil as well as criminal investigations in a security management setting. Emphasis is placed on procedures, legalities, and technical aspects of specialized investigations relating to crime, pre-employment screening, sexual harassment, unlawful employment discrimination, accidents, unexplained losses, and other business activities. Proper documentation of a

security investigation is also discussed.

Transfer Credit: CSU

AJ 212 PUBLIC SAFETY AND SECURITY ADMINISTRATION

3.0 UNITS

Class hours: 3.0 Lecture

This course examines the principles and practices of organization administration and management in public safety and security environments (law enforcement, courts, corrections, fire service, environmental safety, and security). Emphasis is placed on planning, budgeting, human resources development, operations, supervision, evaluation, leadership, and ethical decision-making.

Transfer Credit: CSU

AJ 213 PUBLIC SAFETY COMMUNICATIONS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher. This course deals with all aspects of public safety communications. It will cover the techniques of effectively communicating facts, information, and ideas in a clear and logical manner for a variety of public safety reports, such as crime/violation/incident reports, letters, memoranda, directives, and administrative reports. Students will gain practical experience in interviewing, note taking, report writing, and testifying.

Transfer Credit: CSU

AJ 214 INFORMATION SECURITY

3.0 UNITS

Class hours: 3.0 Lecture

This course focuses on procedures, policies, and equipment designed to protect private and government proprietary and intellectual information. Emphasis is placed on physical and technical security, security management responsibilities, and countermeasures designed to protect information collection, storage, processing, and transmission in hard copy, electronic, and Internet mediums.

Transfer Credit: CSU

AJ 220 CRIMINAL INVESTIGATION

3.0 UNITS

Class hours: 3.0 Lecture

This course stresses the fundamentals of investigation: crime scene search and recording, collection and preservation of physical evidence, scientific aids to investigation, modus operandi, sources of information, interviews and interrogation, follow-up investigation and case preparation.

Transfer Credit: CSU

Announcement of Courses

AJ 221

NARCOTICS AND VICE CONTROL

3.0 UNITS

Class hours: 3.0 Lecture

This course is an introduction to the fields of narcotics and vice investigation. It examines the detection, suppression, apprehension and prosecution of narcotic and vice law violators. Field identification of controlled substances and their effects on the body are stressed. Laws relating to bookmaking, gambling, prostitution and morals offenses are also covered.

Transfer Credit: CSU

AJ 222

JUVENILE PROCEDURES

3.0 UNITS

Class hours: 3.0 Lecture

This course emphasizes the organization, functions, and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures relative to juvenile offenders.

Transfer Credit: CSU

AJ 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

AJ 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108

hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ANATOMY AND PHYSIOLOGY

(Science, Engineering, Mathematics Division)

A&P 120

INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is designed as a survey of human anatomy and physiology. It covers the basic principles of human anatomy and physiology including a survey of the tissues, organ systems, and principal anatomical features. Emphasis is also placed on integrated organ system physiology, human genetics and development. (This course is designed primarily for non-biology majors.)

*Transfer Credit: CSU; UC**

**UC credit limits may apply. A&P 120, A&P 130, A&P 150 and A&P 151 combined: maximum credit, one course. A&P 120, A&P 130, A&P 150, A&P 151, A&P 200 and A&P 201 combined: maximum credit, 2 courses.*

A&P 130

HUMAN ANATOMY AND PHYSIOLOGY

5.0 UNITS

Class hours: 4.0 Lecture/3.0 Laboratory

Prerequisite: Satisfactory completion of the English & Reading Placement Process or ENGL 52 &

READ 54 or equivalents with a grade of Pass or "C" or higher and CHEM 100 or equivalent with a grade of Credit or "C" or higher.

This course examines the gross and microscopic structures of the human body using a systematic approach. Emphasis is placed on the normal function and integration of the organ systems. Homeostatic imbalances of many systems are examined. The laboratory utilizes models, human cadaver, skeletal materials, dissection and selected physiological exercises. This course is designed for students entering the nursing program at Cerritos College; however, it also meets the needs of other allied health programs. This course is strongly recommended for students who plan on taking A&P 200 and A&P 201.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. A&P 120, A&P 130, A&P 150 and A&P 151 combined: maximum credit, one course. A&P 120, A&P 130, A&P 150, A&P 151, A&P 200 and A&P 201 combined: maximum credit, 2 courses.*

A&P 150

INTRODUCTION TO

HUMAN ANATOMY

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course examines the gross and microscopic anatomy of the human body using a systems approach. The course is designed for pre-nursing students, however, it also meets the needs of other allied health programs and physical education programs.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. A&P 120, A&P 130, A&P 150 and A&P 151 combined: maximum credit, one course. A&P 120, A&P 130, A&P 150, A&P 151, A&P 200 and A&P 201 combined: maximum credit, 2 courses.*

A&P 151

INTRODUCTION TO

HUMAN PHYSIOLOGY

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: Satisfactory completion of A&P 150 or equivalent with a grade of Pass or "C" or higher

Recommendation: CHEM 100 or equivalent with a grade of Pass or "C" or higher.

This course studies the normal functioning and integration of the organ systems in the human body. Homeostatic imbalances of many systems and examined. The course is designed for pre-nursing students; however, it also meets the needs of the allied health programs and physical education program.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. A&P 120, A&P 130, A&P 150 and A&P 151 combined: maximum credit, one course. A&P 120, A&P 130, A&P 150, A&P 151, A&P 200 and A&P 201 combined: maximum credit, 2 courses.*

A&P 200 (CAN BIOL 10) (CAN BIOL SEQ B)

HUMAN ANATOMY

5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory

Recommendation: A&P 120 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes the gross structure, microscopic anatomy, and embryology of the organ systems of the human body. Emphasis is placed on showing the complementarity of structure and function or cellular, tissue, organ, and system levels. This is one of the courses which satisfies the requirements of

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majors in four year Nursing Programs, Physical Therapy, PE/Kinesiology, Dental Hygiene, and related fields. It is strongly recommended that students take A&P 120 prior to this course.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. A&P 120, A&P 130, A&P 150 and A&P 151 combined: maximum credit, one course. A&P 120, A&P 130, A&P 150, A&P 151, A&P 200 and A&P 201 combined: maximum credit, 2 courses.*

A&P 201 (CAN BIOL 12) (CAN BIOL SEQ B) HUMAN PHYSIOLOGY 5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory

Prerequisite: A&P 200 and CHEM 100 or equivalent with grades of Pass or "C" or higher.

This course involves a detailed study of the function of the human body with an emphasis on the maintenance of homeostasis by the various organ systems. The course will meet the requirements of four year nursing, dental hygiene, physical therapy, paramedical, physical education, and related majors.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. A&P 120, A&P 130, A&P 150 and A&P 151 combined: maximum credit, one course. A&P 120, A&P 130, A&P 150, A&P 151, A&P 200 and A&P 201 combined: maximum credit, 2 courses.*

A&P 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

A&P 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member,

students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ANTHROPOLOGY

(Humanities, Social Science Division)

ANTH 100 (CAN ANTH 4) CULTURAL ANTHROPOLOGY 3.0 UNITS

Class hours: 3.0 Lecture

This course traces the social behavior of present societies exploring various cultures on earth. The class will study those societies in terms of culture growth, through a survey of the basic, learned behavior patterns. Thus the class will study a wide range of cultural phenomena, including material culture, social organization, customs, religions, languages, family life, economics, the arts and literature. (This course is not open to students who are currently enrolled in or who have received credit for Anthropology 101.)

Transfer Credit: CSU; UC

ANTH 101 FACES OF CULTURE 2.0 UNITS

Class hours: 2.0 Lecture

This is an introductory study of the structures and process of culture. The basic concepts of culture are presented including subsistence patterns, organizing devices, patterns for transmission of culture, economics, political organizations, social control, and culture change. The methods of anthropological research and major theoretical orientations are also described. (This course is not open to students who are currently enrolled in or who have received credit for Anthropology 100.)

Transfer Credit: CSU

ANTH 110 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: ANTH 115 or ANTH 115L or A&P 120 with a grade of Pass or "C" or higher.

This course focuses on human osteology, the standard scientific techniques used to make determinations of age, sex, ancestry, stature, and pathology. It provides a basic overview of the analytical techniques and procedures used in the medical-legal framework.

Transfer Credit: CSU

ANTH 115 (CAN ANTH 2) PHYSICAL ANTHROPOLOGY 3.0 UNITS

Class hours: 3.0 Lecture

This course is about the human past; where we came from and how we got to be the way we are today in terms of both biological and cultural evolution. The topics covered will include: the origin and development of the human species; heredity and population genetics; fossil evidence; the human's relation to the rest of the animal kingdom; and modern human diversity and variation.

Transfer Credit: CSU; UC

ANTH 115L INTRODUCTION TO PHYSICAL ANTHROPOLOGY LAB 1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: ANTH 115 or concurrent enrollment

This course is a comparative study of both human and non-human primates, human variation, evolution, genetics, forensic anthropology, the primate fossil record, and provides a coordinate laboratory experience with ANTH 115.

Transfer Credit: CSU; UC

ANTH 120 (CAN ANTH 6) INTRODUCTION TO ARCHAEOLOGY 3.0 UNITS

Class hours: 3.0 Lecture

Archaeology is the study of mankind's past. This course will cover the history of archaeology, and explore the objectives and methods of modern archaeology. Today's archaeological curiosity is tempered by the scientific method; a combination of sciences in order to get a better grasp on a total understanding of people. This course will explore the world of the archaeologist in order to appreciate the impact that the study of antiquities has had in understanding modern human cultures.

Transfer Credit: CSU; UC

ANTH 170 INTRODUCTION TO LANGUAGE AND CULTURE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher, and satisfactory completion of the

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Reading Placement Process or READ 54 with a grade of Pass or "C" or higher. This course introduces the student to the study of language from an anthropological perspective. Methodology, language and cultural meaning, status and language variation, acquisition of language, multilingualism, and language and institutions will be explored within a cross-cultural perspective.

Transfer Course: CSU; UC

ANTH 200 NATIVE PEOPLES OF NORTH AMERICA

3.0 UNITS

Class hours: 3.0 Lecture

The course is a study of the origins, culture areas, and sociocultural patterns of the native Americans, north of Mexico. This will include a study of the historic spectrum, from prehistory to contemporary times. Emphasis will be on the culture change after contact with Europeans, and the impact of the Western expansion.

Transfer Credit: CSU; UC

ANTH 201 NATIVE PEOPLES OF CALIFORNIA

3.0 UNITS

Class hours: 3.0 Lecture

This course is a survey of California Indian cultures including their prehistory and social, political, and religious beliefs. The effects of European, Middle American, and Asian contact, and the resultant adaptations on current life situations of contemporary American native Americans will be examined.

Transfer Credit: CSU; UC

ANTH 202 THE MAYA, INCA AND AZTECS: ANCIENT CIVILIZATIONS OF THE AMERICAS

3.0 UNITS

Class hours: 3.0 Lecture

This course is a survey of ancient Indian culture of Northern, Middle and South America, including their prehistory and social, political, and religious beliefs. The impact of European contact and resultant adaptations, as well as current life situations of tribal descendants in contemporary society will be examined.

Transfer Credit: CSU; UC

ANTH 203 THE ANTHROPOLOGY OF MAGIC, WITCHCRAFT, AND RELIGION

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher

and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course is a cross-cultural study of the forms and functions of supernatural beliefs and associated rituals in primarily nonwestern societies. Emphasis is on understanding beliefs and rituals involved in animism, individualistic cults, shamanism, totemism, ancestor worship and witchcraft within their social contexts and within the larger scope of religion and human life.

Transfer Credit: CSU; UC

ANTH 205 THE ANTHROPOLOGY OF SEXUALITY AND GENDER

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher, and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course examines the cultural construction of human sexuality and gender in an anthropological framework. Biological and cultural bases for the multiple expressions of sexuality and gender found around the world will be presented. Case studies will include food foraging, horticultural, agricultural, industrial, and post-industrial societies. A central concern is the interaction between subsistence practices, cultural economies, and status in the construction of "normal" and "abnormal" sexualities and genders. This course is not open to students who are enrolled in WS 205 or have received credit in ANTH 204. (Formerly ANTH 204)

Transfer Credit: CSU; UC

ANTH 250 INTRODUCTION TO FIELD ARCHAEOLOGY

3.0 UNITS

Class hours: 1.0 Lecture/6.0 Laboratory

Recommendation: ANTH 120 or equivalent with a grade of Pass or "C" or higher.

This is an introduction to the method of field archaeology including archaeological survey, excavation, mapping, recording of sites, and lab analysis of archaeological artifacts.

Transfer Credit: CSU

ANTH 251 FIELD TRIPS IN ARCHEOLOGY

3.0 UNITS

Class hours: 1.0 Lecture/6.0 Laboratory

Recommendation: ANTH 250 or equivalent with a grade of Pass or "C" or higher.

This is an advanced course in archaeological theory and methods in the field and the laboratory. The emphasis will be on actual site excavation and laboratory analysis. Field trips

are required. Fees are required. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ANTH 298 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ANTH 299 DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ARCHITECTURE

(Technology Division)

ARCH 43 (Not Degree Applicable) ARCHITECTURAL DRAWING OCCUPATIONAL WORK

EXPERIENCE

3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Architectural Drawing work experience

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73 or 20 hours of employment per week for Architectural Drawing work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Concurrent enrollment in the Architectural Drawing vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Architecture students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. This course may be taken a maximum of 4 times.

ARCH 44 (Not Degree Applicable)

ARCHITECTURAL DRAWING OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Architectural Drawing work experience 73 or 20 hours of employment per week for Architectural Drawing work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Concurrent enrollment in the Architecture vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Architectural Drawing students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. This course may be taken a maximum of 4 times.

ARCH 99

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department.

With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

ARCH 110

INTRODUCTION TO ARCHITECTURE AND ENVIRONMENTAL DESIGN

3.0 UNITS

Class hours: 3.0 Lecture

This course provides an overview of the architectural profession allowing the student to make an informed career choice. Topics include professional ethics, licensing and educational requirements, career opportunities in related fields, typical organizational structure of architectural firms, legal requirements, and a review of contemporary issues facing the profession.

*Transfer Credit: CSU; UC**

**UC credit limits may apply: Any or all of the following architecture courses - ARCH 110, 122, 212 - combined with ART 120 and ART 121: maximum credit, 18 units.*

ARCH 111

ARCHITECTURAL DRAFTING AND DESIGN I

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course is an introduction to the preparation of architectural working drawings. The course includes drawing conventions, design considerations, and the relationship between different types of architectural drawings, specifications, and construction techniques. Emphasis is placed on residential construction and commercial buildings. The theory of computer-aided drafting is included.

Transfer Credit: CSU

ARCH 112

HISTORY OF ARCHITECTURE

3.0 UNITS

Class hours: 3.0 Lecture

This course is a survey of the history of architecture from the birth of civilization to the present. Emphasis is placed upon the understanding of the technological, sociological, aesthetic, and artistic influences which determine our built environment. This course will familiarize students with the different architectural periods as well as their characteristic design elements and significant architects.

*Transfer Credit: CSU; UC**

**UC credit limits may apply: Any or all of the following architecture courses - ARCH 110, 122, 212 - combined with ART 120 and ART 121: maximum credit, 18 units."*

ARCH 113

BUILDING CODES

4.0 UNITS

Class hours: 4.0 Lecture

This course is an in-depth study of the statutes and regulations which have been established by law to protect the public health, safety, and welfare. Analysis of the construction of buildings, their use, and accessibility requirements in compliance with applicable laws will be stressed.

Transfer Credit: CSU

ARCH 121

ARCHITECTURAL DRAFTING AND DESIGN II

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ARCH 111 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course is a continuation of the study of methods utilized in the preparation of architectural working drawings. This course includes advanced drawing conventions, design considerations, construction specifications, and structural requirements. Analysis of the materials and construction details of commercial and industrial buildings is given. Emphasis on the purpose and presentation of working drawings and their relationship to building codes is provided.

Transfer Credit: CSU

ARCH 122

ARCHITECTURAL DELINEATION

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: ARCH 111 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course is a study of, and laboratory experience in, three-dimensional representations including renderings, perspective drawings, paraline drawings and presentation drawings of architectural projects. Emphasis is on the techniques of various drawing media which will enable the students to express their architectural ideas.

*Transfer Credit: CSU; UC**

**UC credit limits may apply: Any or all of the following architecture courses - ARCH 110, 112, 122, 212 - combined with ART 120 and ART 121: maximum credit, 18 units.*

ARCH 123

INTRODUCTION TO 2D

COMPUTER AIDED DRAFTING 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

This course provides an introduction to two-dimensional computer aided drafting and design using AutoCAD software. Students will learn the fundamentals of creating and modifying objects, the placing of text and dimensions, working with blocks and hatches, and creating professional quality output. Hands-on exercises will be used to reinforce the functions of AutoCAD. Students who repeat this course will improve skills through further practice and remain current with latest software updates. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

ARCH 211

ARCHITECTURAL DESIGN, PROGRAMMING, AND PRESENTATION

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ARCH 121 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course covers the development of critical thinking skills in design and programming of the single building. Study and application of the various factors that determine the form of buildings with special emphasis on graphic presentations, colors, and models are given.

Transfer Credit: CSU

ARCH 212

ARCHITECTURAL DESIGN THEORY I

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ARCH 111 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course is an introduction to the creative thinking process and its application to basic architectural design theory. Exercises emphasize the development of basic skills and presentation techniques used in the design of simplified architectural projects. Focus on the investigation of the relationship between theoretical concepts, color, space, form, and texture is emphasized.

*Transfer Credit: CSU; UC**

*UC credit limits may apply: Any or all of the following architecture courses - ARCH 110, 112, 122, 212 - combined with ART 120 and ART 121: maximum credit, 18 units.

ARCH 213

INTRODUCTION TO 3-D

COMPUTER AIDED DRAFTING 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ARCH 123 or ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides an introduction to three-dimensional computer aided drafting and design using AutoCAD, Architectural Desktop and VIZ Render software. Students will learn the fundamentals of creating and modifying three-dimensional objects, the placing of cameras and lights, the creation and application of materials, computer rendering techniques, and creating professional quality output. Hands-on exercises will be used to reinforce the functions of the applicable software. Students who repeat this course will improve skills through further practice and remain current with latest software updates. This course may be taken a maximum of 2 times

Transfer Credit: CSU

ARCH 221

ARCHITECTURAL CAD WORK DRAWINGS

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ARCH 123 or ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides an introduction to the production of three-dimensional building design models and working drawings using Architectural Desktop software. Students will learn the fundamentals of creating and modifying three-dimensional massing objects, creating floor plans with doors and windows, the placing of roof and stairs, generating building elevations and sections, annotating and documenting the drawing, creating a building walk-through, and creating professional quality output. Hands-on exercises will be used to reinforce the functions of Architectural Desktop. Students who repeat this course will improve skills through further practice and remain current with latest software updates. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

ARCH 222

ARCHITECTURAL DESIGN THEORY II

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ARCH 212 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course includes the continued development of the creative thinking process and its application to advanced architectural design theory, focusing on the synthesis of

the relationship between theoretical concepts, space, color form, and texture. The emphasis of the course is on presentation graphics, models, and the development of a portfolio of student work. This course is particularly applicable to students wishing to transfer into a professional architectural degree program.

Transfer Credit: CSU

ARCH 223

ARCHITECTURAL CAD 3-D BUILDING MODELING

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ARCH 123 or ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides an introduction to the production of parametric three-dimensional building models and working drawings using Revit software. Students will learn the fundamentals of creating and modifying three-dimensional topography and building mass objects, parametric building walls with floor and roof slabs, creating floor and reflected ceiling plans, generating building elevations and sections, annotating and documenting the drawing, and creating professional quality renderings. Hands-on exercises will be used to reinforce the functions of Revit. Students who repeat this course will improve skills through further practice and remain current with latest software updates

Transfer Credit: CSU

ARCH 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ARCH 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction

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of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ART AND DESIGN

(Fine Arts, Communication Division)

ART 50 CHINESE BRUSH PAINTING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course provides the basic introduction to oriental brush, ink and colors. The student learns concepts in design and composition, as well as the philosophy that is the basis of Chinese brush painting. Subjects include traditional floral and animal studies, and abstract expressions. Techniques for mounting of art work are also studied. This course may be taken for a maximum of 2 times.

ART 100 INTRODUCTION TO WORLD ART 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

This course is an overview of world art from prehistoric times to the present. It is an introduction to the ideas that prompt art making and the search for "beauty" and "truth" (aesthetics) in various cultural contexts. It includes an analysis of the language of the visual arts using examples from throughout the world. It also includes an investigation of the artistic techniques and materials used in painting, printmaking, photography, film, ceramics, sculpture and architecture.

Transfer Credit: CSU; UC

ART 101 (CAN ART 2) ART HISTORY I: PREHISTORY TO GOTHIC 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

This course covers art and its role in human affairs from Prehistory to Gothic with an emphasis on giving students an understanding of all of the visual arts. It is designed to be of interest and value to the art and non-art major alike.

Transfer Credit: CSU; UC

ART 102 (CAN ART 4) ART HISTORY II: RENAISSANCE TO ROCOCO 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

This course covers art and its role in human affairs from the Renaissance to the Rococo with an emphasis on giving students an understanding of all of the visual arts. It is designed to be of interest and value to the art and non-art major alike.

Transfer Credit: CSU; UC

ART 103 ART HISTORY III: NEOCLASSICAL TO PRESENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

This course covers art and its role in human affairs from the Neoclassical period to the present with an emphasis on giving students an understanding of all of the visual arts. It is designed to be of interest and value to the art and non-art major alike.

Transfer Credit: CSU; UC

ART 104 AFRICAN ART HISTORY 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation; ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher, is strongly recommended.

This course is an introduction to the history of African art. Students will explore the background, aesthetics, styles and iconography of Africa through slide presentation, in-class discussions and assigned readings.

Transfer Credit: CSU; UC

ART 105A THE ARTS OF LATIN AMERICAN AND THE CARIBBEAN: PRE-COLUMBIAN 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

This course is an overview of the art of the Americas prior to European contact. It will include an examination of the cultural, socio-political, and religious influences that have shaped the art of the Americas with a specific focus on the cultures of Mesoamerica, the Caribbean, and the Andes. This course will consist of lecture, slide presentations, discussion, and analysis of representative art of the various periods and regions.

Transfer Credit: CSU

ART 105B THE ARTS OF LATIN AMERICA AND THE CARIBBEAN: COLONIAL TO THE PRESENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

This course is an overview of the arts in colonial and post-colonial Latin America and the Caribbean. It will include an examination of the cultural, socio-political, and religious influences that have shaped Latin American and Caribbean art movements with a special focus on colonial hybridity, independence and nationalist movements, globalization, and cultural reactions to modernism and post-modernism. The course will consist of lecture, slide presentations, discussion, and analysis of representative art of the various periods and locations.

Transfer Credit: CSU

ART 106 MEXICAN ART 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

This course is a survey of Mexican art history, from Pre-Colombian to Chicano art. It will include an examination of the cultural, socio-political and religious influences that have shaped the art of Mexico. The course will consist of lecture, slide presentation, discussion, and analysis of representative art of the various periods.

Transfer Credit: CSU; UC

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ART 107

ASIAN ART HISTORY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher.

Asian art history surveys the arts of India, Thailand, Cambodia, Vietnam, Java, China, Korea and Japan. Architecture, painting, sculpture, printmaking and other arts are examined within their philosophical, religious, intellectual and social contexts.

Transfer Credit: CSU; UC

ART 108

BLACK IMAGES IN POPULAR CULTURE

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher, is strongly recommended.

This course surveys the depiction and development of images of Blacks and the stereotypes created in Western culture. The various means artists have used to counter those stereotypes by using techniques of resistance and counter narratives will be examined. Students will study fine art, comic books, comic strips, cartoons, advertising, literature, music, dance, theatre, cinema, broadcasting and television. Writing a research paper is a significant component of the course. Reading of literature theory and criticism is required. This course is not open to students who are enrolled in or who have received credit in HUM 108.

Transfer Credit: CSU; UC

ART 109

GENDER AND SEXUALITY IN ART

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher, is strongly recommended.

This class will investigate the relationship between gender and sexuality through and examination of visual art, cinema, television, video, and advertising. Close attention will be given to how popular and artistic cultures shape identity and representation. Writing a research paper is a significant component of the course. College level reading is required. This course is not open to students who are enrolled in or who have received credit in HUM 109.

Transfer Credit: CSU; UC

ART 110

FREEHAND DRAWING

(CAN ART 8)

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This is a beginning course in the history and appreciation, theory, and practice of representational and non-objective drawing technique, linear perspective, composition, and presentation. Lectures will include the historical development and appreciation of drawing from Western and non-Western cultures.

Transfer Credit: CSU; UC

ART 111

INTERMEDIATE FREEHAND DRAWING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 110 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the hands-on studio experience of ART 110. The course will explore abstraction, cubism and conceptual ideas based on music, poetry and film that have affected art and culture. It will also synthesize the traditional concepts of drawing with the contemporary approaches to drawing since the 20th century. Students will analyze cultural influences, themes and movements in art history from the Renaissance to our current avant-garde and relate them to the creative process of drawing. The course is designed to help identify and enhance each student's individual sensibilities.

Transfer Credit: CSU; UC

ART 112

LIFE DRAWING

(CAN ART 24)

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 110 or equivalent with a grade of Pass or "C" or higher.

This course teaches how to draw the live model. Students learn the language and the elements of drawing, anatomy, and the perspective of the human form in space. Demonstrations are given on a variety of approaches to drawing the figure. Students develop technique with an appreciation for the inherent beauty of the material they are working with charcoal, conte, colored pastel and watercolor.

Transfer Credit: CSU; UC

ART 114

STORYBOARD AND GRAPHIC NOVEL ILLUSTRATION

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course looks at visual storytelling techniques through graphic novels, storyboards, and comic books. Students will learn to effectively communicate a story through pen and ink techniques, draw a pre-visualization for a live-action production, or draw a pre-existing

short story. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 115L

PRINTMAKING LAB

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite:

Corequisite: Concurrent enrollment in or prior completion of ART 116 or ART 117 with a grade of Pass or "C" or higher.

This is a lab course intended to complement other courses in the Printmaking curriculum. It is designed to give practical experience in working with the techniques of relief printing, intaglio (etching, aquatint, drypoint, softground, viscosity, and photoetching), screenprinting and photoscreenprinting, collagraphy, embossing, and monotype. The course will increase the skill and creative output of the student in areas of his/her choice. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

ART 116

BEGINNING PRINTMAKING

(CAN ART 20)

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This is an introductory course in the theory and practice of printmaking that will expose the student to the historical development and contemporary practice of printmaking as an original art form. The student will explore the processes of relief printmaking (linocut and woodcut) intaglio printmaking (etching, drypoint, and softground), and screenprinting and their contemporary interaction with photographics and digital imagemaking through application and appreciation. Recommended for drawing and painting majors, graphic design majors, and photography majors.

Transfer Credit: CSU; UC

ART 117

INTERMEDIATE PRINTMAKING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 116 or equivalent with a grade of Pass or "C" or higher.

This is a course designed to further the student's investigation into the aesthetics and techniques of screenprinting, intaglio (aquatint etching softground, whiteground, sugarlift,) multiple color relief printmaking, and collagraphy. Related photographic and digital image-making techniques will be studied and applied further, such as photo-screenprinting, photo-etching, halftoning, posterization technique, and use of the enlarger, digital camera, flatbed scanner, and slide scanner. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 120

TWO-DIMENSIONAL DESIGN 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
ART 120 is an intensive studio course that introduces the practical and the conceptual aspects of two-dimensional design. Working in both color and black and white, students will use the materials, tools, and techniques of design to create a portfolio. They will study the aesthetic functions and formal concerns of line, shape, value, texture, and surface and develop the understanding and vocabulary of the two-dimensional design.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of the following architecture courses – ARCH 110, 112, 122, 212 – combined with ART 120 and ART 121: maximum credit, 18 units.*

ART 121

(CAN ART 16)

THREE-DIMENSIONAL DESIGN 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: ART 120 or equivalent with a grade of Pass or "C" or higher.

This course will serve as an introduction to organization and problem solving in three-dimensions with an emphasis on formal concerns. It will also serve as an introduction to the materials, techniques and tools used in the making of three-dimensional forms. This course will emphasize the use and comprehension of the vocabulary of three-dimensional design and its application to the visual image.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of the following architecture courses – ARCH 110, 112, 122, 212 – combined with ART 120 and ART 121: maximum credit, 18 units.*

ART 130A

(CAN ART 10)

FUNDAMENTALS OF PAINTING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
This course is an introduction to the material and creative processes of painting. Students learn how to think about pictorial space, how to structure composition, the characteristics and handling of paint, and the application of color theory. Painting is primarily from still-life, with the students' personal interpretation and use of imagination encouraged.

Transfer Credit: CSU; UC

ART 130B

FUNDAMENTALS OF PAINTING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: ART 130A or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of ART 130A. The student works more deliberately with the expressive properties of color, value, and the organization of pictorial space. A variety of

still life painting problems provide the student opportunity to discover his or her strengths and artistic persuasion. Lecture and critiques open the student to a deeper sensibility as well as an increased theoretical understanding of painting.

Transfer Credit: CSU; UC

ART 133A

WATERCOLOR PAINTING 3.0 UNITS

Class hours: 1.0 Lecture/5.0 Laboratory
This introductory course pursues the study of the various techniques and methods of watercolor as used by artists today: transparent, opaque, dry brush, glazing, mixed media, egg tempera, air brush, and colored pencils. Emphasis is placed on traditional, modern, and oriental approaches as relative to other art studies, such as drawing, design, calligraphy, oil painting, and history. The student will be directed towards developing skills in the painting of still life, landscape, figure, portrait, and abstraction.

Transfer Credit: CSU; UC

ART 133B

WATERCOLOR PAINTING 3.0 UNITS

Class hours: 1.0 Lecture/5.0 Laboratory
Prerequisite: ART 133A or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the procedures and studies begun in ART 133A. Emphasis is on acquiring further skills and experiences in various watercolor techniques and practices. Students are expected to learn how to properly mat, glass, and frame paintings for exhibition and display.

Transfer Credit: CSU; UC

ART 134

WATERCOLOR LANDSCAPE

PAINTING I 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course emphasizes the traditional use of materials and techniques related to watercolor painting. The course will analyze color theory, various paint applications, light logic and perspectives as they relate specifically to watercolor and nature, with landscape as a major focus of subject matter.

Transfer Credit: CSU; UC

ART 135

WATERCOLOR LANDSCAPE

PAINTING II 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Recommendation: ART 134 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes new methods and technical approaches to watercolor painting. The course will analyze color theory, various paint applications, light logic and perspective

as they relate specifically to watercolor and nature with landscape as a major focus of subject matter. Beginning with the traditional use of materials and techniques related to watercolor painting, the course is designed to further develop the students' understanding of techniques and personal investigation of watercolor and the landscape.

Transfer Credit: CSU; UC

ART 136

PAINTING FOR ART MAJORS 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: ART 110 or equivalent with a grade of Pass or "C" or higher.

Recommendation: ART 120 or equivalent with a grade of Pass or "C" or higher.

This is a course in painting designed specifically for art majors. Topics include use and manipulation of painting materials and color; depicting mood and sensation; expression of form, edge, and negative space; and devices in composition. Projects include creative thinking as applied to non-objective painting, formal invention, and symbolic imagery. Knowledge of art history is expanded through gallery and museum visits and assigned reading. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 144

JEWELRY/METALSMITHING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
This is an introductory course covering the design and technical processes of jewelry and metalsmithing. This course also explores three-dimensional (3-D) concepts, forms, space manipulation, and issues of wearability. The implication and effects of the history and culture of jewelry and body ornamentation are learned through audio/visual lectures and museum visits. Students will be assisted with the production of their own original jewelry design projects. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 145

JEWELRY

CASTING AND MOLDS 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: ART 144 or equivalent with a grade of Pass or "C" or higher.

This is the second course in a sequential program covering the design and technical processes of jewelry and metalsmithing. Emphasis will be placed on the continued development of skills in designing and fabrication of jewelry and metalsmithing. The techniques and projects covered are forging/smithing, hollow constructions and casting

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processes. The study of the history and culture of jewelry and body ornamentation is continued through audio/visual lectures and museum and gallery visits. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 150 (CAN ART 6) INTRODUCTION TO CERAMICS 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course is designed as an introduction to the ideas, techniques, history, and traditional of the art of ceramics.

Transfer Credit: CSU; UC

ART 151 CERAMICS - BEGINNING WHEELTHROWING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 150 or equivalent with a grade of Pass or "C" or higher.

The course builds on the knowledge and skills learned in ART 150, Introduction to Ceramics. Emphasis is on the use of the potter's wheel. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 152 CERAMICS - BEGINNING HANDBUILDING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 150 or equivalent with a grade of Pass or "C" or higher.

This course builds on techniques learned in ART 150, Introduction to Ceramics. Emphasis is on the use of complex hand-forming techniques. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 153 CERAMICS - INTERMEDIATE WHEELTHROWING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 151 or equivalent with a grade of Pass or "C" or higher.

This course builds on techniques learned in ART 151. Emphasis is on the use of the potter's wheel. Glaze technology is introduced. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 154 CERAMIC - INTERMEDIATE HANDBUILDING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 154 or equivalent with a grade of Pass or "C" or higher.

This course builds on techniques learned in ART 152. Emphasis is on the use of complex hand-forming techniques. Glaze technology is introduced. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 155 BEGINNING CERAMIC SCULPTURE 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 150 or equivalent with a grade of Pass or "C" or higher.

This course is designed as an introduction to the ideas, techniques, and tradition of the art of ceramic sculpture. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 156L CERAMICS LAB 1.0 UNIT

Class hours: 3.8 Laboratory

Corequisite: One or more of the following courses: ART 150, ART 151, ART 152, ART 155, ART 252, ART 253 or ART 255.

Open entry/open exit

This lab course is intended to complement the other courses in the ceramics curriculum. It is designed to give practical experience in the techniques and technology of ceramics, including handbuilding, wheel-throwing, sculpture, surface treatments, and glazing. The course will improve the skills and creativity of students enrolled in the ceramics courses. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

ART 160 LIFE SCULPTURE 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This is a course designed to introduce the student to the art and technique of sculpting the human figure from observation of a live model. Instruction will include structural analysis of the human figure, human anatomy, the use of the elements and principles of sculpture, and techniques of sculpting the figure in modeling materials. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

ART 162 (CAN ART 12) INTRODUCTION TO SCULPTURE 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: ART 121 or equivalent with a grade of Pass or "C" or higher.

This course is designed as an introduction to the ideas, techniques, and materials involved in the making of sculptural forms.

Transfer Credit: CSU; UC

ART 163 THE TECHNIQUES OF SCULPTURE 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: ART 162 or equivalent with a grade of Pass or "C" or higher strongly recommended.

This course is a continuation of ART 162, Sculpture I. New ideas, techniques, and materials for making sculpture are introduced. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 171 OCCUPATIONAL WORK EXPERIENCE IN ART 1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Art, in a declared Art major. One unit of Occupational Work Experience in Art requires 60 non-paid hours or 75 paid hours of work per semester.

Recommendation: None.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their approved projects are completed. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

ART 180 CALLIGRAPHY I 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This foundation course explores the history, theory, and techniques which shape letterforms, past and present. Emphasis will be on developing skill and knowledge through the historical study of calligraphy and the manipulation of tools and materials. The Roman style will be studied through a modular approach beginning with linear forms, then broad pen sans serif forms, and finally Humanist Bookhand. An appreciation for color, design, and the aesthetic qualities of letter forms will be stressed in their contemporary usage. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

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ART 181 CALLIGRAPHY II 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 180 or equivalent with a grade of Pass or "C" or higher.

This course focuses on the development of the Italic letterforms in addition to the continued study of the historical development of letterforms, past and present. Emphasis will be on the continued in-depth development and refinement of calligraphic skills and knowledge. Various styles of Italic will be studied in conjunction with a review of the Roman styles of the previous semester. Calligraphy II will continue to stress an appreciation for the color, design, and aesthetic properties of quality letterforms in their contemporary usage. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 182A LETTERING AND TYPOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

The exploration of lettering and typography, its creation, use and function in printing, packaging, publishing, and advertising constitute the basis for this course. Skills will be developed through practical studio exercises using both hand skills and computer typography. The classification of type styles will be learned and the basic elements of typography will be explored.

Transfer Credit: CSU

ART 182B LETTERING AND TYPOGRAPHY II 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 182A or equivalent with a grade of Pass or "C" or higher.

The design and application of letterforms requiring increased technical skills and intensive experience in the use of current and computer graphics programs provide the basis for this second semester of lettering and typography. Topics include illustrative lettering, experimental typography, computer-designed letterforms, digital typography and type design.

Transfer Credit: CSU

ART 183 INTRODUCTION TO ILLUSTRATION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 110 or equivalent with a grade of Pass or "C" or higher.

In this course students learn the principles and practices of illustration through the examination of artists and illustrators as well as the understanding of materials, techniques,

and practical assignments faced by the illustrator. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 183A COMMERCIAL BRUSH LETTERING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This course explores the history, theory and techniques of brush lettering with an emphasis on designing for commercial applications. The class will focus on hand lettering techniques with manipulation of traditional flat and pointed brushes. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 183B COPPERPLATE CALLIGRAPHY 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This foundational course explores the history, theory, and techniques which shape letterforms, past and present. Emphasis will be on developing skill and knowledge through the historical study of calligraphy and the manipulation of tools and materials. The Copperplate style will be studied through a modular approach beginning with linear forms, then flexible pointed pen forms. An appreciation for color, design, and the aesthetic qualities of letterforms will be stressed in their contemporary usage. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 184 GRAPHIC DESIGN I 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 182A or equivalent with a grade of Pass or "C" or higher.

Fundamental studies are conducted in the history, theories, techniques, and practices of graphic design. Emphasis will be placed on the application of basic design principles to graphic design problems in visual communications. Design solutions will explore the potential of layout and design, utilizing illustration, photography, typography, and symbology.

Transfer Credit: CSU

ART 185 RENDERING I 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 110 or equivalent with a grade of Pass or "C" or higher.

Beginning techniques in the delineation of representational subject matter are explored. Emphasis is on sharp focus drawing using black and white media such as pencils, ink, felt tips, as well as colored felt tips and Prismacolor pencils. This course is important to those

interested in graphic design, industrial design, and technical illustration.

Transfer Credit: CSU

ART 186 COMPUTER GRAPHICS WITH ADOBE ILLUSTRATOR 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course covers the basic concepts and techniques of computer graphics. The principles of art and design are taught in a studio setting emphasizing hands-on experience. Students create original illustrations using vector-based graphics software.

Transfer Credit: CSU

ART 188 DESIGN FOR DESKTOP PUBLISHING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course covers page design and layout systems for desktop publishing. The principles and terminology of typography are stressed. The scanning of graphic material such as illustrations and photographs will be covered with regard to the requirements of the publishing industry. Hands-on experience is emphasized. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 189L COMPUTER GRAPHICS LAB 1.0 UNIT

Class hours: 3.0 Laboratory

Corequisite: One of the following courses: ART 182A, ART 182B, ART 184, ART 186, ART 188, ART 192, ART 195, ART 196, ART 284, PHOT 110 or PHOT 112

This course is designed to increase skills in computer graphics systems. Students will receive individual help with on-going projects assigned in corequisite graphics and multimedia classes. Work may be assigned in the following areas; presentation techniques and hands-on software tutorials. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

ART 190 ANIMATION PRINCIPLES 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This class demonstrates the theory of animation principles through practical exercises in hand-drawn cel animation. Students explore the use of animation techniques in contemporary character-based animated narratives. Students will apply concepts of timing, weight, personality and balance to hand drawn animation projects. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 191A

3D COMPUTER ANIMATION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course will serve as an introduction to 3D computer animation by taking animation principles developed in classical animation and applying those techniques using computer animation software. Particular emphasis will be placed on character modeling, anthropomorphic techniques, and character modeling. Topics will also include lighting composition, and rendering. Students will animate and render a short narrative as the final project. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 191B

3D COMPUTER ANIMATION PROJECT 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 191A or equivalent with a grade of Pass or "C" or higher.

This course will provide students with the opportunity to continue their exploration of 3D computer animation by writing, modeling, storyboarding, and animating an original animation short. Topics will include storyboard creation, shot development, editing, and sound design. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 192

PHOTOSHOP/DIGITAL IMAGING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course covers image editing of photographic media for commercial art direction using Adobe Photoshop and other image editing programs. Topics include scanning basics, image conversion, painting and editing tools, manipulation selections, photographic compositing, masks and layers, color corrections and making color separations.

Transfer Credit: CSU

ART 192B

ADVANCED PHOTOSHOP 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course covers advanced image editing of photographic media for commercial art direction using Adobe Photoshop. Emphasis is on more advanced Photoshop techniques as well as more involved design projects that will further enhance the student's portfolio. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

ART 193

MOTION PICTURE EDITING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course will serve as an introduction to motion picture editing by taking students through the history of editing and analyzing specific techniques through class examples of significant films. Students will explore the work of important directors and editors and chart their contributions to the art of cinematic editing. Students will apply their knowledge of editing techniques through exercises on non-linear editing tools where they will edit their own versions of scenes from common footage.

Transfer Credit: CSU

ART 194

MULTIMEDIA DESIGN 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course acquaints students with the use of multimedia programs and the tools they provide to create full featured interactive multimedia prototypes, applications, and presentations for commercial distribution. Class work and lab assignments provide hands-on experience for the students. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 194A

ADVANCED FINAL CUT PRO 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course takes students through the more complex features of Final Cut Pro software to gain a better understanding of compositing and effects for multimedia and animation. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

ART 195

3D MODELING FOR ANIMATION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This is the first course in the animation major sequence. It serves as an introduction to 3D computer animation, which adopts basic techniques developed in traditional model making and sculpture and applies those procedures to a virtual 3D environment. Emphasis will be placed on fundamental principles beginning with "Primitives" through intermediate approaches using "SubPatches." Other essential topics included are composition, surfacing, lighting, and rendering techniques. This class may be taken a maximum of 2 times.

Transfer Credit: CSU

ART 196

WEB DESIGN WITH FLASH AND DREAMWEAVER 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CIS 205 or equivalent with a grade of Pass or "C" or higher.

The course introduces students to the principles and design skills essential to designing web pages. The students will use web page creation software and the tools they provide to create full-featured-interactive web sites. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 197

DIGITAL PAINTING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course is a bridge connecting conventional drawing and painting tools and techniques with their computer counterparts. Specifically, this course explores color theory, art history and conventional media, and demonstrates how to translate foundational art theory using digital painting tools. It addresses the needs of students making the transition from traditional to digital media. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 198

MOTION GRAPHICS 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course addresses the process of communication through typographic animation and visual effects. Emphasis is placed on creating emotional expression and identity through composites of video and text. Topics include the combination of on-screen text and imagery in feature films, broadcast applications, video poetry, and fine art videos. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 213

INTERMEDIATE LIFE DRAWING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 112 or equivalent with a grade of Pass or "C" or higher.

In this course students continue the process of learning to draw the live model. Students practice exploring the rhythm and design inherent in the human figure, seeing and understanding the space a form occupies, understanding the kinesthetics of anatomy, and learning the economy of good drawing technique. The history and evolution of drawing as an art form and contemporary purposes in figure drawing are discussed in lectures. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

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ART 214

SPECIAL STUDIES IN LIFE DRAWING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 213 or equivalent with a grade of Pass or "C" or higher.

This course offers advanced work in figure drawing. Emphasis is placed on the student's development of personal style. The pictorial space of the drawing is given the same importance as in a painting, and the student seeks to elevate the classroom sketch to a well designed and effective work of art. The course considers the relationship between the student's intentions in drawing to his or her work in other media, such as painting or sculpture. Focus is placed on the personal and creative aspects of drawing, how and what a drawing communicates, developing an advanced technique, and using professional materials. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 217L

ADVANCED SCREENPRINTING/ ADVANCED ETCHING LAB

1.0 UNIT

Class hours: 3.0 Laboratory

Corequisite: Concurrent enrollment in or prior completion of ART 218 or ART 219 or equivalent with a grade of Pass or "C" or higher.

This is a lab course intended to complement advanced courses in the Printmaking curriculum. It is designed to give practical experience in working with the techniques of relief printing, intaglio (etching, aquatint, drypoint, softground, viscosity, and photoetching), screenprinting and photoscreenprinting, collagraphy, embossing, monotype and digital imagemaking in conjunction with the traditional printmaking techniques. The course will increase the skill and creative output of the student in areas of his/her choice. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

ART 218

SCREENPRINTING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 117 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes advanced practice, technique, and historical knowledge of screenprinting as a fine art medium. An important feature of the course will be the study of the materials, stencils, films, blockouts, photomechanical processes, and inks of the screenprinting process. Photographic and digital image-making techniques related to photoscreenprinting will be studied and

applied further, including use of the enlarger, stat camera, digital camera, flatbed scanner, and slide scanner. Instruction will cover serigraphic flatbed printing as well as use of the rotary press for textile printing. Students will be required to complete particular aesthetic and technical assignments through their prints. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 219

ADVANCED ETCHING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 117 or equivalent with a grade of Pass or "C" or higher.

This course is designed to explore the artistic possibilities and various techniques of advanced etching, including grounds, aquatints, photoetching, multiple plate color etching, viscosity printing, collagraphy, and embossing. Related digital imaging and photographic techniques will be presented for integration into the etching process. Students will be required to deal with particular aesthetic issues and techniques. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 231

INTERMEDIATE PAINTING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 130B or equivalent with a grade of Pass or "C" or higher.

This course is designed for students who want a deeper understanding of painting: its history, theories, creative purposes, and technical skills. Through lectures, discussions, and studio work, students discover, articulate, and bring into being their own artistic identity and style. Practical assistance is given on an individual basis. Emphasis is placed on the student's progression from idea to technical means and visual accomplishment. Students may initiate their own painting projects, or use what subject matter is presented to the class. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 232

PORTRAITURE: DRAWING/ PAINTING THE HEAD

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 112 or equivalent with a grade of Pass or "C" or higher.

This course is an introduction to portraiture: its techniques, history, and social uses. Many genres of portraiture will be surveyed to analyze how they give expression to cultural and societal values. Formal portraiture, character stereotypes, images from popular

culture, African and Asian masks, the face of the nude, expressionistic psychological portraiture, commercial portrait styles, and the self-portrait, all will be discussed and explored. Live models will pose. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 237

LIFE PAINTING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 112 or equivalent with a grade of Pass or "C" or higher.

Student must be at least 18 years of age or have parental consent in order to take this course. This is a painting and lecture course which focuses on the live model as subject matter. The history and philosophy of the figure in art are discussed. Symbolic, expressionistic, allegorical, fantastic, narrative, and abstract styles are surveyed. Drawing and painting techniques and materials are explained. Individual and group critiques are utilized. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 238

SPECIAL STUDIES IN PAINTING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 136 or ART 237 or equivalent with a grade of Pass or "C" or higher.

This is an advanced course designed for individualized study by the experienced painter. The student is expected to research the historical and contemporary trends in art and the criticism which relate to his or her work. Discussion centers on how the student's work communicates specific meaning and functions within the art world. Projects may be in traditional, transitional, or new forms of painting. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU, UC credit determined after admission

ART 239

PORTRAIT PAINTING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 130A or ART 232 or ART 237 or equivalent with a grade of Pass or "C" or higher.

This is a course in the history, theories, techniques, and practice of portrait painting. Creative imagination, color, space, and pictorial structure are included in the study of the portrait. Live models will be used. The student has the option of working in any drawing or painting medium. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

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ART 246 JEWELRY DESIGN FABRICATION

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 145 or equivalent with a grade of Pass or "C" or higher.

This is the third course in a sequential program covering the design and technical processes of jewelry and metalsmithing. The techniques and projects covered are fabricating a die-formed container, stone setting, mold making, and lost wax casting of multiples. The study of the history and culture of jewelry and body ornamentation is continued through audio/visual lectures and museum and gallery visits. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 248 HOLLOW FORMING JEWELRY PROCESSES

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 246 or equivalent with a grade of Pass or "C" or higher.

This is the fourth and most advanced course in a sequential program covering the design and technical processes of jewelry and metalsmithing. The techniques and projects covered in this course include designing a suite/set of wearable objects and a set of flatware. Specialized advanced techniques and processes will be taught to match the student's specific artistic objectives and projects. The study of the history and culture of jewelry and metalsmithing is continued through audio/visual lectures and museum, gallery, commercial and industrial site visits. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 252 CERAMICS - FORM AND TECHNIQUE

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 151 or ART 152 or equivalent with a grade of Pass or "C" or higher.

This course continues the exploration and development of forms and techniques encountered in ART 151 and ART 152. The student is expected to determine some of the projects for the semester's work. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 253 CERAMICS - FORM AND CONTENT

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 252 or equivalent with a grade of Pass or "C" or higher.

This course continues the exploration and development of forms and techniques encountered in ART 151 and ART 152. The student is expected to determine some of the projects for the semester's work. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 255 INTERMEDIATE CERAMIC SCULPTURE

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 155 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of ART 155. New ideas, techniques and approaches to making ceramic sculpture are introduced. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ART 264 SCULPTURE-STONECARVING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: ART 163 or equivalent with a grade of Pass or "C" or higher strongly recommended.

This course is designed to extend the student's knowledge and skill in the specific discipline of subtractive sculpture. The student will learn how to make sculpture by traditional stone-carving techniques. This course may be taken for a maximum of 3 times.

Transfer Credit: CSU; UC

ART 284 GRAPHIC DESIGN II

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 184 or equivalent with a grade of Pass or "C" or higher.

Continued studies in the theories, techniques, and practices of graphic design for visual communications are undertaken. Emphasis is on more advanced techniques and studies of problems in visual communications. Design solutions will be taken from the initial concept through refinement to camera-ready art for print production. Students acquire expertise in the use of process cameras, phototypesetters, and additional equipment.

Transfer Credit: CSU

ART 285 RENDERING II

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ART 185 or equivalent with a grade of Pass or "C" or higher.

Experimental and advanced techniques in the delineation of representational subject matter emphasize the use of color in creating sharp focus drawing. Pencils, colored inks, felt tips, watercolor, gouache, and acrylic will be used. This class is important for those interested

in graphic design, industrial design, and technical illustration.

Transfer Credit: CSU

ART 287A LETTER ARTS

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: ART 181 or equivalent with a grade of Pass or "C" or higher.

This intermediate course of study focuses on the artistic and aesthetic uses of letterforms as cultural and communicative forces in society. Students will progress toward the development of professional skills and techniques in the application of lettering, calligraphy and typography to creative and expressive concepts. Historical and contemporary methods, materials and usage will be explored through a variety of projects. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

ART 287B ROMAN CALLIGRAPHY

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: ART 287A or equivalent with a grade of Pass or "C" or higher.

This course is designed to develop analytical methods and to increase performance skills in the evaluation of letter structure and the shaping of historical letterform styles. Students will develop the ability to modify historical styles of letterforms for contemporary applications in aesthetic and communicative areas. Expertise and knowledge will be expanded through the exploration of tools, materials, and techniques. This course may be taken for a maximum of 3 times.

Transfer Credit: CSU

ART 298 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

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ART 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ASTRONOMY

(Science, Engineering, Mathematics Division)

ASTR 101

ELEMENTARY ASTRONOMY

3.0 UNITS

Class hours: 3.0 Lecture

This is an introductory survey course in the general principles and fundamentals of astronomy. It is designed primarily for non-science majors, physical science general education credit at transfer institutions.

Transfer Credit: CSU; UC

ASTR 102

INTRODUCTORY ASTRONOMY:

STARS AND THE UNIVERSE

3.0 UNITS

Class hours: 3.0 Lecture

This course is a non-technical introduction to astronomy, with emphasis on stars, galaxies, and the origin and evolution of the universe. Topics include the nature of light, the atom, and telescopes; the birth, evolution, and death of stars; the Milky Way Galaxy; normal, active, and cannibal galaxies; and the Big Bang model. This course is not open to students with credit in ASTR 101.

*Transfer Credit: CSU; UC**

**UC credit limits may apply: ASTR 102 and ASTR 103 combined: maximum credit, one course. No credit for ASTR 102 or ASTR 103 if taken after ASTR 101.*

ASTR 103

INTRODUCTORY ASTRONOMY:

THE SOLAR SYSTEM

3.0 UNITS

Class hours: 3.0 Lecture

This course is a non-technical introduction to astronomy, with emphasis on the Sun, planets, moons, and smaller bodies which make up the solar system. Topics include the nature of light, the atom, telescopes, an examination of the planets and their moons and rings, the origin of the solar system, comets, asteroids, and meteors, catastrophic events, and the search for planets around other stars. This course is not open to students with credit in ASTR 101.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. ASTR 102 and ASTR 103 combined: maximum credit, one course. No credit for ASTR 102 or ASTR 103 if taken after ASTR 101.*

ASTR 104

LIFE IN THE UNIVERSE

3.0 UNITS

Class hours: 3.0 Lecture

This course is a non-technical introduction to the theory of the origin of life in the universe with emphasis on the origin of terrestrial life in the solar system. Topics include the laws of nature, the double helix of life, the origin of the DNA (Deoxyribonucleic Acid) strand, the proliferation of carbon based life forms, speculation on the nature of non-carbon based life, the evolution of intelligence, and the search for extraterrestrial life.

Transfer Credit: CSU; UC

ASTR 105L

OBSERVATIONAL ASTRONOMY

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: ASTR 101, ASTR 102, ASTR 103, ASTR 104 or ASTR 106 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment.

This is a laboratory course in practical astronomical observations and studies designed for the student with an interest in the use of telescopes and instruments. An opportunity will be provided for additional study as a supplement to the lecture course. Occasional evening observing sessions are required.

Transfer Credit: CSU; UC

ASTR 106

HISTORY OF ASTRONOMY

3.0 UNITS

Class hours: 3.0 Lecture

This course explores humanity's changing view of the cosmos and its place in that cosmos from the earliest times to the present. Topics include comparative cosmologies of ancient culture, the Copernican revolution, the Enlightenment, and the modern view of the universe developed over the last two

centuries. Course work includes readings about figures and projects using models of historic instruments.

Transfer Credit: CSU; UC

ASTR 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ASTR 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

AUTOMOTIVE COLLISION REPAIR & REFINISHING/AUTOBODY

(Technology Division)

AB 51

NON-STRUCTURAL REPAIR

4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

This course covers basic aspects of the

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automotive collision repair trade. Major emphasis is placed on orienting the student on the safe use of basic power and hand tools, use of fillers, and metal straightening techniques for the repair of non-structural damage. It also includes discussion of automobile design, nomenclature, and non-structural damage analysis.

AB 52

STRUCTURAL DAMAGE REPAIR 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion. This course is part of an instructional package for the student who wishes additional knowledge in automotive collision repair. It introduces the student to unitized and space-frame construction, high-strength steel components, chassis design, sheet metal straightening techniques, alignment, and installation of body parts. Also included is safety related to electrical problems, introduction of plastic components and continued welding and metallurgical experience. This course may be taken a maximum of 2 times.

AB 53

SUSPENSION, ALIGNMENT AND POWER TRAIN DAMAGE 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion. This course introduces students to suspension control point alignment, suspension systems, and power train problems related to automotive collisions. Related topics include frame-straightening systems, measurement and gauging for damage, cooling and electrical components, and continued welding and metallurgical experience. This course may be taken a maximum of 2 times.

AB 54

ADVANCED DESIGN AUTOMOTIVE PANEL REPAIR 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion. This course emphasizes alignment and repair of advanced design automotive body panels, such as tempered sheet metal, aluminum, plastics, fiberglass, and composites. Additional topics include repair and installation of structural members, removal and replacement of electrical and electronic components, and related interior parts. This course may be taken a maximum of 2 times.

AB 55

STRUCTURAL PANEL REPLACEMENT 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion. This course emphasizes frame and structural repair. Instruction includes repair and replacement of structural body panels, removal and replacement of power train and supports, gauging and analysis of major structural damage, plus the measurement and alignment of strut towers. Appropriate safety related instructions will be included in each segment. This course may be taken a maximum of 2 times.

AB 56

NON-STRUCTURAL AUTOMOTIVE WELDING 2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory
This course introduces students to oxy-acetylene, Gas Metal Arc Welding (GMAW), stick arc, and pressure resistance welding. It is designed for the student who is presently employed in the automotive field. Related technical subjects include safety, testing of weld joints, design, strength of materials, process selection, cutting methods and metals identification. A major focus of this course is to prepare students to complete the I-CAR GMAW Certification Test.

AB 57

STRUCTURAL AUTOMOTIVE WELDING 2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory
Prerequisite: AB 56 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience. This course further develops student skills in the use of Gas Metal Arc Welding (GMAW) equipment and methods related to the repair, maintenance and alteration of the automobile structure. Special emphasis will be placed upon GMAW of structural high strength steel, aluminum welding, plasma arc and oxyacetylene cutting. A major focus of this course is to prepare students to complete the I-CAR GMAW Certification Test. Appropriate safety related instructions are included in each segment. This course may be taken a maximum of 3 times.

AB 58

COLLISION REPAIR UPDATE 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Prerequisite: AB 51, AB 52, and AB 53 or equivalent courses with grades of Pass or "C" or higher, or appropriate work experience. AB 54 may be substituted for AB 53. This course increases skills and knowledge by

updating the student in areas of their choice. Update areas would include refinishing of plastics, advanced design automotive components, metal finishing, complex frame and structural repair, and advanced welding. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

AB 59A

COMPUTERIZED MEASURING TRAINING 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion. Recommendation: Proficient in MS Windows software applications.

The focus of this course is for students to become proficient in the operation and use of Computerized Measuring Training (CMT). Students will learn to properly identify vehicles, components and systems, select and install the appropriate scan targets and attachments onto various vehicles, and provide digital measuring with the Genesis computerized measuring system. Topics include basic collision theory, damage analysis fundamentals, maintenance, and operation of the Genesis2 and Velocity laser measuring systems. The processes and methods used within the software program and laser scanners will be reviewed extensively. This course may be taken a maximum of 2 times.

AB 59B

UNITIZED BODY ANALYSIS AND REPAIR PLANNING 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Prerequisite: AB 51 or AB 59A or equivalent with a grade of Pass or "C" or higher, or appropriate work experience. Recommendation: Current or previous employment in collision repair facility. This course introduces students to the concepts of damage analysis and repair planning for unitized body vehicles. It is designed for structural repair technicians and students with limited training in structural repair. The course presents case studies that give students the information needed to measure, analyze, and develop repair plans for damaged unitized structures. It provides foundation information for intermediate and advanced analysis and repair courses. This course may be taken a maximum of 2 times.

AB 59C

FULL FRAME ANALYSIS AND REPAIR PLANNING 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Prerequisite: AB 51, AB 59A, or AB 59B or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

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Recommendation: Current or previous employment in collision repair facility.

This course expands student learning of damage analysis and repair planning to include full-frame vehicles (pickups and sport utility vehicles). Additional case studies of damaged full-frame vehicles will be presented that give technicians the information needed to measure, analyze, and develop appropriate repair plans. The additional information in this course is fundamental for success in more advanced damage analysis and repair courses. This course may be taken a maximum of 2 times.

AB 59E

FULL FRAME REPAIR-GAUGES 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

Prerequisite: AB 51 or AB 59B or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course furthers student learning in full-frame damage analysis and repair with universal measuring gauges. Included topics are full-frame vehicle design analysis, effects of collisions on various full-frame designs, full-frame damage assessment using universal measuring gauges, full-frame vehicle hook-up and repair options, and methods of determining repair completion with universal measuring gauges. This course may be taken a maximum of 2 times.

AB 61

PREPARATION AND SPOT REFINISHING 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion.

This course introduces beginning techniques for automotive refinishing preparation and spot painting techniques. This course includes basic use of abrasives, primers, fillers, and sealers. Students are instructed in the use of solvents, pre-coats, and basic material problems encountered in today's refinishing market. This course may be taken a maximum of 2 times.

AB 62

OVERALL AND MULTI-COAT REFINISHING 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion.

This course develops the skills of the professional automotive refinisher in overall multi-coat refinishing. Students will be instructed in the art of tinting colors, spot repair of factory and after-market multi-coat finishes, overall refinishing, interior/exterior care and maintenance, and the refinishing of plastic components. The course includes the

testing, research and development of current refinishing materials. I-CAR certification criteria will be incorporated in the training and discussions. This course may be taken a maximum of 2 times.

AB 63

PRODUCTION REFINISHING 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Corequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or prior completion.

In this course, students learn to prepare and refinish several vehicles, simultaneously. Areas covered include repair of minor body dings, paint preparation, mixing of multiple colors, plus the masking and painting of up to three separate vehicles of varying models, color, and types. This course provides students with hands-on techniques for increasing the volume of vehicles processed in the professional automotive refinishing environment. This course may be taken a maximum of 2 times.

AB 65

MIX AND ADJUSTING COLOR 2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory

This course increases the marketable skills for the automotive refinisher in the trade. Emphasis is on color and texture duplication, the use of automotive toners to scratch paint mix and to mix specific colors using formulas and tintometers. It also includes spray-blending techniques, compatibility, troubleshooting of materials, and paint chemistry. This course may be taken a maximum of 3 times.

AB 66

LETTERING, STRIPING AND DESIGN 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This course trains students in the arts of automotive lettering, graphic design, and pin-striping. Students work with lines, colors, and harmonizing/contrasting concepts to create special effects on commercial and passenger vehicles using a wide range of materials and techniques. Included in this course are the use of computer-generated graphics, stencil making, hand pin-striping, and air-brushing. This course may be taken a maximum of 2 times.

AB 68

REFINISHING UPDATE 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Prerequisite: AB 61, AB 62, and AB 63 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

This course is designed to increase skill and knowledge as well as update students in automotive refinishing areas of their choice. It will emphasize automotive refinishing and

plastic repair techniques, panel and spot painting, sanding and preparation techniques, and overall and multi-coat painting. This course may be taken a maximum of 4 times.

AB 73

AUTOMOTIVE COLLISION

REPAIR OCCUPATIONAL

WORK EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Automotive Collision Repair work experience 73 or 20 hours of employment per week for Automotive Collision Repair work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Concurrent enrollment in the Automotive Collision Repair vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Automotive Collision Repair students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken a maximum of 4 times.

AB 74

AUTOMOTIVE COLLISION

REPAIR OCCUPATIONAL

WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Automotive Collision Repair work experience 73 or 20 hours of employment per week for Automotive Collision Repair work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Concurrent enrollment in the Automotive Collision Repair vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Automotive Collision Repair students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and

the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken a maximum of 4 times.

AB 75 BODY PANEL MODIFICATION 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Prerequisite: AB 51 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course emphasizes design and fabrication of automotive body panels. Additional topics include customization of existing body panels, partial-panel fabrication, metal finishing, fabrication welding techniques and the application and use of the sheet metal brake, sheer, shrinker/stretcher, and bead roller. This course may be taken a maximum of 2 times.

AB 76 PARTIAL-PANEL FABRICATION 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Recommendation: AB 75 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course furthers student learning in the area of automotive sheet metal design and fabrication. Students will learn to design and fabricate portions of sheet metal panels to be replaced on vehicles. Reproduction of more complex angles and shapes will be introduced. Use of specific sheet metal design and fabrication tools and equipment with appropriate techniques will be included. This course may be taken a maximum of 2 times.

AB 77 FULL-PANEL FABRICATION 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Prerequisite: AB 51 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Recommendation: AB 75 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

In this course student learning is elevated to the level of full-panel sheet metal design and fabrication. Complete sheet metal panel fabrication will be demonstrated using pre-determined shapes and forms. Formation of compound angles and complex shapes encompassing an entire panel will be addressed. Included are the continued application and use of advanced sheet metal fabrication tools and equipment. This course may be taken a maximum of 2 times.

AB 79 AUTOMOTIVE FABRICATION PROJECTS 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory
Recommendation: AB 51 or AB 75 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course allows students to hone hands-on skills while completing automotive body panel fabrication projects. Students will identify and select specific projects that are relevant to the subject matter being taught. This course may be taken a maximum of 2 times.

AB 80 AUTOBODY CUSTOMER SERVICE 2.0 UNITS

Class hours: 2.0 Lecture
This course focuses on effective customer service in an automotive collision repair facility. Students learn appropriate use of collision repair industry terminology, measuring and improving levels of customer service, interpreting body language, conflict resolution, telephone and in-person communication skills, personal conduct and business ethics, and the completion of paperwork related to autobody customer service positions. This course may be taken for a maximum of 4 times.

AB 83A COMPUTERIZED DAMAGE ESTIMATING-ADP 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
Recommendation: Proficient in MS Windows Software application.

The focus of this course is for students to become proficient in Automated Data Processing (ADP) collision damage estimating program. Students will learn to properly identify vehicles, components and systems, and to select and input the appropriate replacement parts and labor costs into a computerized damage report. Topics include development of customer and insurance company profiles, maintenance of user accounts, the generation of supplemental damage reports and the use of software-specific part codes, as currently used in the collision repair industry. The processes and methods used within the ADP software program will be reviewed extensively. This course may be taken a maximum of 2 times.

AB 83C COMPUTERIZED DAMAGE ESTIMATING-CCC 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
Recommendation: Proficient in MS Windows Software application.

The focus of this course is for students to become proficient in CCC collision damage

estimating program. Students will learn to properly identify vehicles, components and systems, and to select and input the appropriate replacement parts and labor costs into a computerized damage report. Topics include development of customer and insurance company profiles, maintenance of user accounts, the generation of supplemental damage reports and the use of software-specific part codes, as currently used in the collision repair industry. The processes and methods used with the CCC software program will be reviewed extensively. This course may be taken a maximum of 2 times.

AB 83M COMPUTERIZED DAMAGE ESTIMATING-MITCHELL 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
Recommendation: Proficient in MS Windows Software application.

The focus of this course is for students to become proficient in Mitchell Information Systems (Mitchell) collision damage estimating program. Students will learn to properly identify vehicles, components and systems, and to select and input the appropriate replacement parts and labor costs into a computerized damage report. Topics include development of customer and insurance company profiles, maintenance of user accounts, the generation of supplemental damage reports, and the use of software-specific part codes, as currently used in the collision repair industry. The processes and methods used within the Mitchell software program will be reviewed extensively. This course may be taken a maximum of 2 times.

AB 86 PRODUCTION MANAGEMENT 2.0 UNITS

Class hours: 2.0 Lecture
This course focuses on production management and improving workflow in automotive repair facilities. The course includes job analysis, task prioritizing, job descriptions, flow-charting, capacity planning, parts and material procurement, production controls, cycle-time analysis, and development of key controls for management. This course may be taken maximum of 4 times.

AB 88 ESTIMATING AND MANAGEMENT UPDATE 3.0 UNITS

Class hours: 2.5 Lecture/1.4 Laboratory
Prerequisite: Nine units of collision repair estimating and/or management or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

This course increases skills and knowledge in collision repair estimating, management, and customer relations for students considering

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a career in the auto body repair industry. It includes computerized automotive damage estimating, shop management, customer relations, and communications. This course may be taken a maximum of 4 times.

AB 98 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

AB 99 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

AB 181 NON-STRUCTURAL DAMAGE ESTIMATING 3.0 UNITS

Class hours: 3 lecture/1 lab
Recommendation: Proficient in MS Windows software applications.
This is an entry-level course for students wanting to learn to estimate non-structural (minor) automotive damage from collisions. Emphasis is on vehicle construction and structural design, repair methodology, vehicle component and systems identification, and in developing appropriate "judgment repair times" (estimated repair times for damage). Students learn to properly format hand-written estimates identifying the cost of parts, labor, materials, and sublet and other charges required to return damaged vehicles to factory specifications. Hands-on demonstration of repair techniques helps students increase their knowledge of repair processes recommended

in their damage estimates. Students use collision estimating guides to establish parts prices and industry standard labor times for replacement and refinishing of damaged parts; additionally, students learn to use "Procedure Pages" in the estimating guides for processes not included in the standard times listed in the guide. Computerized estimating is introduced as students demonstrate proficiency in developing concise hand-written estimates. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AB 182 STRUCTURAL DAMAGE ESTIMATING 3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory
Prerequisite: AB 181 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Recommendation: Proficient in MS Windows Software application.

This course extends student skills in collision damage estimating of more complex areas of structural, mechanical, and electrical damage to vehicles. Areas of study include expanded understanding of collision theory, damage analysis fundamentals, visual inspection process, measuring and analyzing structural damage, suspension and mechanical systems damage estimating, build tolerances, and safety systems as related to severely damaged vehicles. Other topics include estimator job functions, methods of determining customer satisfaction, regulatory compliance issues, and ethics within the collision repair industry. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AB 183 COMPUTERIZED DAMAGE ESTIMATING 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
The focus of this course is for students to become proficient in software-specific collision damage estimating program. Students will learn to properly identify vehicles, components and systems, and to select and input the appropriate replacement parts and labor costs into a computerized damage report. Topics include development of customer and insurance company profiles, maintenance of user accounts, the generation of supplemental damage reports and the use of software-specific part codes, as currently used in the collision repair industry. The processes and methods used within the software program will be reviewed extensively. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

AB 188 INTRODUCTION TO AUTOMOTIVE CLAIMS HANDLING 2.0 UNITS

Class hours: 2.0 Lecture
Recommendation: AB 181 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

In this course, students are introduced to the automotive claims handling process. The course presents the knowledge and skills needed to begin processing automotive insurance claims. Topics include vehicle inspection process, identification of pre-existing damage, industry repair standards, and completion of claims-processing paperwork. Students will identify and recommend appropriate repair methodology for vehicle repairs maintaining required coverage limitations and complete related paperwork.

Transfer Credit: CSU

AB 281 STRUCTURAL DAMAGE ANALYSIS FOR ESTIMATORS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Prerequisite: AB 51, AB 181 or AB 182 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

Recommendation: Current or previous employment in collision repair facility.

This course is designed to help the collision damage estimator, appraiser and student better understand the process of analyzing structural and suspension damage. Collision theory, industry terminology, structural design, the visual inspection process and measuring and repair equipment are covered in the course. Anchoring and pulling concepts are described in detail. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

AB 282 STEERING AND SUSPENSION FOR DAMAGE ESTIMATORS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Prerequisite: AB 281 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Recommendation: Current or previous employment in collision repair facility.

This course is designed to assist the collision damage estimator, appraiser and student to better understand the process of analyzing steering and suspension damage from collisions. It builds on student knowledge gained from the prerequisite course and assists in mastery of steering and suspension damage analysis. Specialized procedures to verify steering and suspension alignment are practiced herein.

Transfer Credit: CSU

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AB 283

ADVANCED FRAME ANALYSIS FOR ESTIMATORS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Prerequisite: AB 52, or AB 281, or AB 282 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

Recommendation: Current or previous employment in collision repair facility.

This course is designed to build on student knowledge gained from the prerequisite course and to assist in mastery of collision damage analysis. The focus of this course expands damage analysis specifically for pickup trucks and sport utility vehicles.

Transfer Credit: CSU

AB 285

COLLISION REPAIR MANAGEMENT 3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory
Recommendation: Proficient in MS Windows Software application.

This course focuses on effective management and operation of automotive repair facilities. Students are introduced to skills required for effective management and promotion of an automotive repair facility. Areas of training include development of policies, rules and regulations, job-costing, equipment and material procurement, facility cost analysis, safety, employee and right-to-know issues, and warranties. Other topics include department operations, job functions, compensation packages, production controls, capacity planning, cycle-time analysis, customer satisfaction, licensing and certification, effective communication skills, process improvement, and time management. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AB 287

ADVANCED COLLISION REPAIR MANAGEMENT 2.0 UNITS

Class hours: 2.0 Lecture

This course includes presentation of the wide range of skills required to effectively direct, manage and promote a multi-location collision repair facility. Areas of advanced training include rules and regulations related to the automotive repair industry, job costing, equipment and material procurement, facility cost analysis, department operations, safety, employee and right-to-know issues, warranties, customer satisfaction, licensing and certification, from the perspective of consolidator and/or franchise body shop operations. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

AB 288

ADVANCED AUTOMOTIVE CLAIMS 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: AB 181 or AB 188 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

In this course, students learn effective automotive claims handling. The course presents the skills needed to effectively process automotive insurance claims with differing coverage criteria. Topics include structural and cosmetic damage analysis, total loss evaluation, theft recoveries, vandalism, claims negotiation, vehicle re-inspection process, fraud detection, identification of pre-existing damage, appropriate repair standards, personal presentation, and image projection.

Transfer Credit: CSU

AUTOMOTIVE MECHANICAL REPAIR TECHNOLOGY

(TECHNOLOGY DIVISION)

AUTO 1 (Not Degree Applicable) ENGINE MAINTENANCE 0.5 UNIT

Class hours: 0.8 Lecture/0.2 Laboratory

This is a fundamental course in automotive engines, dealing with maintenance of the modern automobile. Emphasis is on the elementary operating principles and beginning skill development. This three-week section is designed to allow students to become familiar with automotive engines and enter the work environment with basic skills.

AUTO 2 (Not Degree Applicable) FUEL SYSTEMS 0.5 UNIT

Class hours: 0.8 Lecture/0.2 Laboratory

This is a fundamental course in automotive fuel systems, dealing with maintenance of the modern automobile. Emphasis is on the elementary operating principles and beginning skill development. This three-week section is designed to allow students to become familiar with automotive fuel systems and enter the work environment with basic skills.

AUTO 3 (Not Degree Applicable) LUBRICATION AND COOLING 0.5 UNIT

Class hours: 0.8 Lecture/0.2 Laboratory

This is a fundamental course in automotive lubrication and cooling systems, dealing with maintenance of the modern automobile. Emphasis is on the elementary operating principles and beginning skill development. This three-week section is designed to allow students to become familiar with automotive lubrication and cooling systems and enter the work environment with basic skills.

AUTO 4 (Not Degree Applicable) ELECTRICAL SYSTEMS 0.5 UNIT

Class hours: 0.8 Lecture/0.2 Laboratory

This is a fundamental course in automotive electrical systems, dealing with maintenance of the modern automobile. Emphasis is on the elementary operating principles and beginning skill development. This three-week section is designed to allow students to become familiar with automotive electrical systems and enter the work environment with basic skills.

AUTO 5 (Not Degree Applicable) BRAKES AND SUSPENSION 0.5 UNIT

Class hours: 0.8 Lecture/0.2 Laboratory

This is a fundamental course in automotive brake and suspension systems, dealing with maintenance of the modern automobile. Emphasis is on the elementary operating principles and beginning skill development. This three-week section is designed to allow students to become familiar with automotive brake and suspension systems and enter the work environment with basic skills.

AUTO 6 (Not Degree Applicable) TRANSMISSION AND DRIVE TRAIN 0.5 UNIT

Class hours: 0.8 Lecture/0.2 Laboratory

This is a fundamental course in automotive transmission and drive train systems dealing with maintenance of the modern automobile. Emphasis is on the elementary operating principles and beginning skill development. This three-week section is designed to allow students to become familiar with automotive transmission and drive train systems and enter the work environment with basic skills.

AUTO 7 (Not Degree Applicable) AIR CONDITIONING AND HEATING 0.5 UNIT

Class hours: 0.8 Lecture/0.2 Laboratory

This is a fundamental course in automotive air conditioning dealing with maintenance of the modern automobile. Emphasis is on the elementary operating principles and beginning skill development. The course is designed to allow students to become familiar with automotive heating and air conditioning and enter the work environment with basic skills.

AUTO 54 INTRODUCTION TO ELECTRIC VEHICLE 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

This course introduces the student to the world of Electric Vehicle Conversions. Students will be instructed with alternatives to gasoline powered vehicular travel and to the specific

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advantages of Electric Powered Automobiles. Topics to be included are: the process of conversion of a gas-powered vehicle to electric power, including the testing, assembly, operation and maintenance of EV's, the disassembly and re-assembly of an EV, introduction to battery and charging systems, optional power accessories and EV drive systems. Appropriate safety related instructions will be included in each segment. This course may be taken a maximum of 2 times.

AUTO 55 ADVANCED TECHNOLOGY ELECTRIC VEHICLE

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
This course develops students skills in electric vehicle conversions and introduces them to advanced technology EV's and purpose-built EV's. Students will work with hybrid electric vehicles and advanced design EV's. Topics included are the conversion process of kit cars to electric power, including the testing, assembly, operation and maintenance of EV's; the benefits of aerodynamic designs for EV's; introduction to advanced technology batteries and intelligent charging systems; optional hydrogen fuel cell technology; and alternative EV drive systems. Appropriate safety related instructions will be included in each segment. This course may be taken a maximum of 3 times.

AUTO 60 (Not Degree Applicable) INTRODUCTION TO INTELLIGENT TRANSPORTATION SYSTEMS (ITS) AND TELEMATICS

3.0 UNITS

Class hours: 3.0 Lecture
This survey course introduces the student to Intelligent Transportation Systems (ITS) and telematics. Topics discussed include the history of ITS, government and industry organizations and standards, recent technological advances, navigation, wireless communication, telecommunications, traffic safety, and traffic management. The material focuses on current trends and opportunities in the field of Intelligent Transportation Systems.

AUTO 73 AUTOMOTIVE MECHANICAL REPAIR OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Automotive Mechanical Repair work experience 73 or 20 hours of employment per week for Automotive Mechanical Repair work experience 74. The employment must be in a job related to the student's educational goal. Corequisite: (1) Enrollment in the Automotive

Mechanical Repair vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Automotive Mechanical Repair students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken a maximum of 4 times.

AUTO 74 AUTOMOTIVE MECHANICAL REPAIR OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Automotive Mechanical Repair work experience 73 or 20 hours of employment per week for Automotive Mechanical Repair work experience 74. The employment must be in a job related to the student's educational goal. Corequisite: (1) Enrollment in the Automotive Mechanical Repair vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Automotive Mechanical Repair students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken a maximum of 4 times.

AUTO 80 BUREAU OF AUTOMOTIVE REPAIR (BAR) ASE ALTERNATIVE COURSES FOR ADVANCED EMISSIONS SPECIAL

5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory
Recommendation: Appropriate work experience.
This alternative course will meet and exceed the Bureau of Automotive Repair (BAR)

for Automotive Service Excellence (ASE) certifications for the following areas: Electrical, Engine Performance, and Advanced Engine Performance. This course meets theory/practical requirements for obtaining the state license for Advanced Smog Technician.

AUTO 98 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

AUTO 99 DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

AUTO 100 AUTOMOTIVE MAINTENANCE AND OPERATION

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Basic class dealing with the selection and maintenance of the modern automobile. Emphasis is on the basic operating principles.
Transfer Credit: CSU

AUTO 110 AUTOMOTIVE ENGINES

5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory
Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher.
This is theory/practical course in Automotive Engine Repair to include operating principles and descriptions of all components. The emphasis is on diagnosis and measurement of internal engine components. Complete

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disassembly and reassembly of engines will be accomplished with the emphasis on manufacturer's specialty tools and techniques of overhead cam engines.

Transfer Credit: CSU

AUTO 111 AUTOMOTIVE ENGINES 4.0 UNITS

Class hours: 3.3 Lecture/3.3 Laboratory
Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher.

This is a theory/practical course in Automotive Engine Repair that includes operating principles and descriptions of all components. The emphasis is on diagnosis and measurement. Complete disassembly and reassembly of engines will be accomplished with the emphasis on manufacturer's specialty tools and techniques of overhead cam engines. Course content will be presented on a single manufacturer's engine.

Transfer Credit: CSU

AUTO 120 AUTOMATIC TRANSMISSIONS AND TRANSAXLES 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory
Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course is focused on the principles of automatic transmissions and transaxles. Procedures for diagnosing troubles, adjusting, and overhauling the automatic transmission and transaxle are studied and applied in the shop. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 121 DRIVETRAIN TRANSMISSIONS AND AXLES 6.0 UNITS

Class hours: 5.0 Lecture/5.0 Laboratory

Prerequisite: AB 73/74

Recommendation: AUTO 181 or equivalent with a grade of Pass or "C" or higher.

This course is a study of the principles of the automotive power systems-clutch, manual and automatic transmission, transaxle, transfer case, driveline, drive-axle, differential, including diagnosis and service. This course is taught using specified manufacturer's components and materials.

Transfer Credit: CSU

AUTO 130 MANUAL DRIVETRAIN AND AXLES 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory
Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher.

This is a study of the principles of the

automotive power systems-clutch, manual and automatic transmission, transaxles, transfer cases, drive line, drive-axle, differential and all-wheel drive systems and service, including diagnosis and service. The course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 140 AUTOMOTIVE STEERING AND SUSPENSION 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a course in the theory and practice of steering, suspension, and wheel alignment. It includes operating principles, component description, diagnosis, and service. Alignment instruction includes electronic four-wheel alignment. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 150 AUTOMOTIVE BRAKES 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a theoretical and practical course in braking systems. It includes operating principles, component description, diagnosis, and service. Brake service includes antilock braking systems. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 151 AUTOMOTIVE ALIGNMENT BRAKE AND SUSPENSION 6.0 UNITS

Class hours: 5.0 Lecture/5.0 Laboratory

This is a theoretical and practical course in basic alignment, brakes, steering, and suspension on a single manufacturer's car line. Included are operating principles, component description, diagnosis, repair, and service adjustments. This course is designed to accompany work experience in this trade.

Transfer Credit: CSU

AUTO 160 AUTOMOTIVE ELECTRICITY 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a theory and practical course in basic electricity and automotive electrical systems such as battery, starting, charging, and electronic ignition. Test equipment and

computer systems will also be covered.

Transfer Credit: CSU

AUTO 161 AUTOMOTIVE ELECTRICITY 7.0 UNITS

Class hours: 6.0 Lecture/4.0 Laboratory

Recommendation: AUTO 100 or AUTO 151 or equivalent with a grade of Pass or "C" or higher.

This is a theory/practical course in basic electricity and automotive electrical systems, such as battery, starting, charging, and electronic ignition systems. The content will be presented on a single manufacturer's product line

Transfer Credit: CSU

AUTO 170 AUTOMOTIVE AIR CONDITIONING 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Recommendation: AUTO 160 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This theory and shop course is designed to teach basic automotive air conditioning using tools skills and processes associated with the modern automobile. Related information for developing knowledge and skills necessary to perform the most common and essential air conditioning service procedures is addressed. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 179 AUTOMOTIVE AIR CONDITIONING 4.0 UNITS

Class hours: 3.3 Lecture/3.3 Laboratory

Recommendation: AUTO 161 or equivalent with a grade of Pass or "C" or higher.

This course is a study of the principles of automotive air conditioning systems. The tools, skills, and processes necessary to perform the most common and essential air conditioning service procedures are studied and demonstrated in the shop. All instruction will be done on a single manufacturer's unit.

Transfer Credit: CSU

AUTO 180 ELECTRONIC ENGINE MANAGEMENT SYSTEMS 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a theoretical/practical course pertaining to the operation, individual components, and the overall logic by which fuel systems components work together. Feedback carburetion, fuel

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injection and electronic controls will be included along with OBD-I and OBD-II systems operation and comparisons. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 181 ELECTRONIC ENGINE MANAGEMENT SYSTEMS-CORPORATE 6.0 UNITS

Class hours: 5.0 Lecture/5.0 Laboratory

Corequisite: AUTO 73/74.

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher

This is a theory/practical course in diagnosing automotive drivability problems. Areas such as ignition, carburetion, automotive computers, electronic engine controls and on-board diagnostic systems will be included. The course will be presented using a single manufacturer's product line.

Transfer Credit: CSU

AUTO 182 INTRODUCTION TO ALTERNATIVE FUEL 3.0 UNITS

Class hours: 3.0 Lecture

This course introduces students to the role, function, and practical application of Compressed Natural Gas (CNG) as an alternative fuel for the internal combustion engine. Propane, methanol, and hydrogen are also discussed.

Transfer Credit: CSU

AUTO 190 AUTOMOTIVE MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher.

This course is designed to furnish the student with knowledge, experience and practice in supervision and management of an automotive repair facility. Emphasis is placed on customer relations, scheduling, cost estimation, and efficient, effective use of time and space.

Transfer Credit: CSU

AUTO 193 AUTOMOTIVE SERVICE INFORMATION MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Automotive major or employment in an automotive repair facility.

This course will cover customer satisfaction, understanding new car warranties, service contracts and operating policies. A review of California common laws and BAR regulations will be included. Emphasis is based on computerized and electronic information

systems including, All Data, Mitchell on Demand, ADP Automotive Management Systems.

Transfer Credit: CSU

AUTO 194 RETAILING AUTOMOTIVE SERVICE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Current automotive student or employed as an automotive service professional This course deals with issues related to the automotive repair facility's management, productivity, and operation of vehicle fleets. Taking into account the facility infrastructure, the focus will be on scheduling work to effectively utilize facilities and staff to improve production and profitability. Cost effective techniques for equipment procurement, management, and maintenance will also be covered. Shop organization and workflow will be discussed including safety and regulatory issues.

Transfer Credit: CSU

AUTO 195 AUTOMOTIVE CUSTOMER RELATIONS 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Employment in an automotive repair facility or full-time automotive student.

This course deals with the selling of automotive services to the general public and automotive fleet managers. All aspects of customer relations and developing skills necessary to properly communicate with customers are covered. Special emphasis will be given to interpersonal relationship development and customer confidence building. Cultural differences will be discussed as they affect sales techniques. This course provides participants with the necessary knowledge and skills to effectively handle situations that occur when dealing with unusual, complex or ethical problems.

Transfer Credit: CSU

AUTO 210 AUTOMOTIVE MACHINE SHOP 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience

This course is designed to teach students the basic operations used in the automotive machine shop. It concentrates on cylinder head, cylinder block, and piston and connecting rod assemblies. An overview of other related operations, such as honing techniques, cylinder bores, and crankshaft line boring

will be included. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 211 HIGH PERFORMANCE ENGINES 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: Appropriate work experience.

This is an advanced course in automotive engine design and high performance engine preparation. Complete disassembly and reassembly of engines will be accomplished. This course will include flow bench testing of cylinder heads and the operation of the engine dynamometer. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

AUTO 212 AUTOMOTIVE SPECIALTY 2.0 UNITS

Class hours: 6.0 Laboratory

Prerequisite: AUTO 210 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

This course is designed to further increase the skill and knowledge of the student in areas of his/her choice, working to trade standards. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

AUTO 260 ADVANCED ELECTRICAL SYSTEMS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: AUTO 160 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a theory/practical course in the automotive body electrical system, covering all classes of electrical components and power accessories in the area of diagnosing and component repairs. (Formerly AUTO 223)

Transfer Credit: CSU

AUTO 280 DIAGNOSTIC ENGINE PERFORMANCE 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a theory/practical course in diagnosing automotive drivability problems. Areas such as ignition, carburetion, automotive computers, electronic engine controls and on-board diagnostic systems will be included. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

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AUTO 281 **EMISSION CONTROL SYSTEMS -** **1997 STANDARDS 5.0 UNITS**

Class hours: 4.0 Lecture/4.0 Laboratory
Recommendation: AUTO 100 or equivalent with a grade of Pass or "C" or higher.
This course gives the advanced automotive student exposure to the current methods, devices, and manufacturers of automotive emission control systems. It provides the student with an opportunity to obtain an advanced emission specialist technician license. This course may be taken for a maximum of 2 times. (Formerly AUTO 170)
Transfer Credit: CSU

BIOLOGY

(Science, Engineering, Mathematics Division)

BIOL 100 **NATURAL HISTORY OF** **SO CALIFORNIA 1.0 UNIT**

Class hours: 0.5 Lecture/1.5 Laboratory
This is a field trip and seminar class in Biology and Geology of selected areas in So. California. Minerals, geology, landforms, plants, animals, ecology, human use, and recreation value will be studied. This course may be taken for a maximum of 2 times.
Transfer Credit: CSU

BIOL 105 **MAN AND ENVIRONMENT 3.0 UNITS**

Class hours: 3.0 Lecture
Recommendation: Satisfactory completion of the English Placement Process for ENGL 100 clearance or ENGL 52 or equivalent with a grade of Pass or "C" or higher.
This course is designed to help both science and nonscience majors to develop a better understanding of some of the important environmental problems facing mankind. The nature and implications of subjects such as loss of genetic variability, pollution problems, overpopulation, and the use and abuse of natural resources, will be studied. There will be an emphasis on the interrelatedness of these problems and how an understanding of environmental principles can help us to live on this planet more intelligently and more successfully.
Transfer Credit: CSU; UC

BIOL 110 **CALIFORNIA ANIMALS** **AND PLANTS 3.0 UNITS**

Class hours: 2.0 Lecture/3.0 Laboratory
Prerequisite: BIOL 120 or equivalent with a grade of Pass or "C" or higher.

The common plants and animals of California are studied with emphasis upon those local forms which can be readily collected or observed. The lecture is designed to familiarize the student with the life history and identification of local species of plants and animals and to aid in the understanding of the relationship of these organisms to their environment. The laboratory and field work emphasize ecological principles and taxonomic identification.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. No credit for BIOL 110 if taken after BOT 120.*

BIOL 115 **MARINE BIOLOGY 3.0 UNITS**

Class hours: 2.0 Lecture/3.0 Laboratory
This introductory course in marine biology is concerned with the adaptations, ecological relationships, economic importance, and identification of marine animals and plants. Emphasis is on the intertidal and offshore communities of California with frequent field trips to observe live specimens and study the marine environment.

Transfer Credit: CSU; UC

BIOL 120 **INTRODUCTION TO** **BIOLOGICAL SCIENCE 4.0 UNITS**

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is designed for non-biological science majors. It covers basic principles of life science, including cellular biology, the plant and animal kingdoms, ecology, genetics, and evolution. Emphasis is also placed on human biology as it relates to everyday living.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. No credit for BIOL 120 if taken after 200.*

BIOL 180L **LIFE SCIENCE PREPARATIONS 1.0 UNIT**

Class hours: 3.0 Laboratory
Prerequisite: BIOL 120 or equivalent with a grade of Pass or "C" or higher.

This course is designed for pre-teaching, life science majors. The student will learn the use and care of laboratory apparatus through actual experience in the classroom. The student will assist the instructor in the laboratory by performing such jobs as helping to prepare demonstrations, designing displays, and aiding individuals in the class. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

BIOL 200 (CAN BIOL SEQ A) **PRINCIPLES OF BIOLOGY 5.0 UNITS**

Class hours: 3.0 Lecture/6.0 Laboratory
Prerequisite: CHEM 111 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment. BIOL 120 or ZOOL 120 or BOT 120 or equivalent with a grade of Pass or "C" or higher.

The course provides a basic survey of major groups of organisms (Kingdoms Monera, Protista, Plants, and Animals) within a context of unifying themes of evolution and ecology. Emphasis will be on structure and function or organisms with consideration given to phylogeny, taxonomy, adaptations, and interactions among organisms and their environment. Animal behavior and select vertebrate organ systems will be included. This course is designed as one semester of a two part series (coordinating with BIOL 201) for biology/medical majors.

Transfer Credit: CSU; UC

BIOL 201 (CAN BIOL SEQ A) **PRINCIPLES OF BIOLOGY 5.0 UNITS**

Class hours: 3.0 Lecture/6.0 Laboratory
Prerequisite: CHEM 111 or equivalent with a grade of Pass or "C" or higher. BIOL 120 or ZOOL 120 or BOT 120 or equivalent with a grade of Pass or "C" or higher.

The principles of modern biology are discussed at the molecular, cellular, and organismic levels. Integrated within the course will be units on biochemistry, cell biology, origin of life, physiology of excitable tissues, genetics, molecular biology, biotechnology, immunology and developmental biology.

Transfer Credit: CSU; UC

BIOL 202 **MOLECULAR BIOLOGY /** **GENETICS 4.0 UNITS**

Class hours: 4.0 Lecture
Prerequisite: BIOL 201 and CHEM 211 or equivalent with grades of Pass or "C" or higher. CHEM 211 may be taken concurrently.

Biology 202 is an extension of the study of molecular biology, cell biology and genetics introduced in BIOL 201. This course examines the structure and function of nucleic acids and proteins in the living cell, as well as how these molecules are studied and manipulated in the laboratory. Topics include regulation of gene expression, recombinant DNA technology, chromosome mapping and viral and prokaryotic genetics.

Transfer Credit: CSU; UC

BIOL 250L **SPECIAL TOPICS IN BIOLOGY 1.0 UNIT**

Class hours: 3.0 Laboratory
Prerequisite: BIOL 120 or equivalent with a

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grade of Pass or "C" or higher.

This course is designed primarily for biological science majors. Individual research problems are explored using materials, equipment, and techniques not available to larger classes. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU, UC credit determined after admission

BIOL 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

BIOL 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

BOTANY

(Science, Engineering, Mathematics Division)

BOT 120

INTRODUCTION TO PLANT SCIENCE

4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This is a basic course in plant biology designed not only to introduce the student to plants, but also to cover in some depth many of the facets of botany. Included will be plant cell biology and chemistry, a survey of major plant groups and their life cycles and characteristics, plant ecology and evolution. The course will help prepare students for a life science major, but it can also be taken to fulfill a lab science requirement in general education. Four field trips to examine local plant communities are part of the class. Students will also conduct a research project, prepare a scientific paper, and make a poster presentation based on their project.

Transfer Credit: CSU; UC

BOT 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

BOT 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should

expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

BUSINESS ADMINISTRATION

(Business Division)

BA 50

MATH FOR BUSINESS AND FINANCE

3.0 UNITS

Class hours: 3.0 Lecture

This course is a study of basic math as it relates to specific areas of business. Topics covered include percent, interest markup, discounting, stocks, annuities, consumer credit, loans, and bank reconciliations.

BA 51

LEGAL ASPECTS OF MANAGEMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course covers statutes, ordinances, rules, regulations, and orders that influence the operation of the industry being studied. The student will become familiar with various agencies operating in the areas which regulate labeling, environment, sanitation, advertising, weights and measures, pricing, and labor laws. It is designed for management majors.

BA 62

BUSINESS ON THE INTERNET

1.5 UNITS

Class hours: 1.5 Lecture

This course explores the current status of business and marketing practices on the Internet. Through the use of computers in the classroom, the students will explore business resources on the Internet. Opportunities on the Internet are in the areas of entrepreneurial management, business applications, marketing, and sales. Resources that are utilized are Internet service providers as well as electronic mailing lists and chat groups.

BA 63

HOW TO START A HOME-BASED BUSINESS

1.5 UNITS

Class hours: 1.5 Lecture

This course explores the factors that determine the possibility of starting a home-

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based business. The process of starting and operating a home-based business is included in this course.

BA 65
NATIONAL MANAGEMENT
ASSOCIATION: ROLE OF
THE SUPERVISOR **1.0 UNIT**

Class hours: 1.0 Lecture

This course examines the supervisor's role, including income, status, and psychological rewards. It also examines the characteristics that effective supervisors have in common which are primarily centered on people skills and managerial capabilities. We will explore the context and basic knowledge factors that determine supervisory performance.

BA 66
NATIONAL MANAGEMENT
ASSOCIATION: MANAGEMENT
PRINCIPLES **1.0 UNIT**

Class hours: 1.0 Lecture

This course is designed to present practical ideas and tools for managers, supervisors, and team leaders; build a foundation of management concepts that will prepare the participant for further studies; and help each student develop a positive and constructive philosophy of management.

BA 67
NATIONAL MANAGEMENT
ASSOCIATION: COMMUNICATION
SKILLS **1.0 UNIT**

Class hours: 1.0 Lecture

This course will equip people with communication skills and concepts that will make them more effective as leaders, supervisors, and managers. It deals with basic communication concepts demonstrated useful for leaders and managers at all levels. This course includes the oral communication skills (talking and listening) and the written skills (reading and writing).

BA 68
NATIONAL MANAGEMENT
ASSOCIATION: INTERPERSONAL
RELATIONSHIP SKILLS **1.0 UNIT**

Class hours: 1.0 Lecture

This course will equip people with interpersonal relationship skills and concepts that will make them more effective as managers. The emphasis is on learning the fundamentals and techniques of relating to others, presenting up-to-date concepts that help managers develop themselves and become more effective in working with people.

BA 69
NATIONAL MANAGEMENT
ASSOCIATION: DEVELOPING
PERFORMANCE **1.0 UNIT**

Class hours: 1.0 Lecture

This course focuses on the development of excellence in performance. It deals with various facets of individual, team, and work units performance of concern to managers, supervisors, and team leaders in various types of business organizations. This course addresses contemporary approaches and concepts, such as, reengineering, empowerment, and a useful system for managing performance.

BA 75
NATIONAL MANAGEMENT
ASSOCIATION: NEW EMPLOYEE **1.0 UNIT**

Class hours: 1.0 Lecture

This course focuses on how to work effectively with a new employee resulting in substantial returns in performance, loyalty, and to cooperation within the organization.

BA 76
NATIONAL MANAGEMENT
ASSOCIATION: COACHING/
COUNSELING **1.0 UNIT**

Class hours: 1.0 Lecture

This course emphasizes the manager's role in the development of a skill employee. This course explains how managers coach and counsel employees effectively. It also teaches the manager nonjudgmental communication and how to actively listen and provide feedback.

BA 77
NATIONAL MANAGEMENT
ASSOCIATION: LEADERSHIP
DEVELOPMENT **1.0 UNIT**

Class hours: 1.0 Lecture

This course is designed to help a student understand and develop an awareness of a leader's role; improve leadership skills at all levels; establish leadership ideals and develop qualities needed to achieve them; understand leadership styles and increase a person's capability to respond accordingly; and develop strategies for effectiveness as a leader.

BA 78
NATIONAL MANAGEMENT
ASSOCIATION: BUSINESS
CONCEPTS **1.0 UNIT**

Class hours: 1.0 Lecture

This course covers the basic business concepts that are essential to successfully understand how a business operates. It includes an understanding of the nature of a business and how information effectively flows through

the organization. It also discusses how the economic system impacts an individual business.

BA 79
NATIONAL MANAGEMENT
ASSOCIATION: LAW FOR
THE SUPERVISOR **1.0 UNIT**

Class hours: 1.0 Lecture

This course is designed to provide those in supervision with a background of law that is pertinent to their business context. Emphasis is on understanding law's impact on the supervisor instead of the learning of specific legal terminology.

BA 100
FUNDAMENTALS OF BUSINESS **3.0 UNITS**

Class hours: 3.0 Lecture

This course, designed for the beginning business student, will survey business principles, problems, practices, and procedures as they pertain to the societal challenges facing business and the economic challenges facing America. Business topics will be discussed, such as: the nature of business, ownership, recruitment and training of personnel, labor-management relations, production and distribution of goods, competition, profits, transportation, finance, managerial controls, government, and business relations.

Transfer Credit: CSU; UC

BA 101
INTERNATIONAL BUSINESS **3.0 UNITS**

Class hours: 3.0 Lecture

This course is a survey of the factors, problems, and techniques involved in conducting business in the market places of the world and includes an overview of economic, political, geographic, and social factors that affect business transactions abroad.

Transfer Credit: CSU

BA 102
INTERNATIONAL BUSINESS
LAW **3.0 UNITS**

Class hours: 3.0 Lecture

This is a survey course designed to acquaint the student with the legal aspects of international business law. It includes discussions regarding the responsibilities of states for the treatment of aliens and foreign businesses, multinational enterprises, foreign investments, importing and exporting, and money and banking.

Transfer Credit: CSU

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BA 104

MANAGING CULTURAL DIVERSITY

3.0 UNITS

Class hours: 3.0 Lecture

This course introduces students to various human characteristics and differences which exist in world wide business environments. Communication styles, business ethics, mannerisms, numbers, space, and political and religious beliefs will be highlighted as to their importance in establishing viable and profitable contacts between individuals, cultures, and nations. This course can be taken in either a traditional or an online learning environment.

Transfer Credit: CSU

BA 105

PERSONNEL-POLICY AND PROCEDURES

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to provide the student with an in-depth probe of personnel from an administrative role. It includes the implementation of compliance with governmental regulations and laws.

Transfer Credit: CSU

BA 106

HUMAN RESOURCE MANAGEMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to acquaint the student with the principles and methods related to the effective utilization of personnel in the business organization. It will develop relations involved in recruitment, selection, placement, training, and supervision of employees. It will also include an introduction to the organized labor movement and current labor relations conditions.

Transfer Credit: CSU

BA 107

HUMAN RELATIONS IN BUSINESS

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to aid future employees and employers to understand and utilize human relations concepts as they apply to the business environment. It will cover such areas as morale, personal efficiency, leadership, personality, motivation, and communication.

Transfer Credit: CSU

BA 108

LABOR MANAGEMENT RELATIONS

3.0 UNITS

Class hours: 3.0 Lecture

This is an introductory course in labor-management relations for supervisors and union shop stewards. It focuses on collective

bargaining and the functions of management, unions and labor agreements. An indepth study will be made of the Labor Management Relations Act as amended, the National Labor Relations Board, and the Landrum-Griffin Act. Special attention is given to grievance procedures and arbitration cases. Negotiations of a collective bargaining agreement will be simulated.

Transfer Credit: CSU

BA 110

ADVERTISING

3.0 UNITS

Class hours: 3.0 Lecture

This course covers the study of magazine, newspaper, radio, billboard, direct mail, and other special forms of publicity. Problems of space, type, copy, and the preparation of the complete layout are discussed. The principles of effective techniques with ample practice in the preparation of different types of advertisements will be covered.

Transfer Credit: CSU

BA 113

LEGAL ENVIRONMENT OF BUSINESS

3.0 UNITS

Class hours: 3.0 Lecture

This is a course that provides a meaningful portrayal of the operation and interaction of public and private law in the political and socio-economic environment. This is achieved by the study of the state and federal legal system and the laws that regulate business organizations. This course can be taken in either a traditional or an online learning environment.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. LAW 110, LAW 111, and BA113 combined: maximum credit, one course.*

BA 114

MARKETING

3.0 UNITS

Class hours: 3.0 Lecture

This course covers problems and organizations of systems of distributing goods and services in our business world. It will include promotion through retail and wholesale parallels, consumer buyer habits, pricing, budgeting, transportation, warehousing, sources and uses of marketing information, and marketing of agricultural products. This course can be taken in either a traditional or an online learning environment.

Transfer Credit: CSU

BA 115

MANAGEMENT-BUSINESS

3.0 UNITS

Class hours: 3.0 Lecture

This course will cover the principles and

techniques in the management of business. It includes organizing, planning, controlling, directing, and the application of management principles to business organizations.

Transfer Credit: CSU

BA 117

INTRODUCTION TO SUPERVISION

3.0 UNITS

Class hours: 3.0 Lecture

This is an introductory course focusing on the leadership skills and responsibilities required of supervisors in industry, business, and government agencies. Topics to be explored will include effective communication practices, training, and evaluation of employees, management systems organization, and delegation of responsibilities. Designed for in-service supervisors and pre-supervisor education, this class offers the demonstration of leadership skills. This course can be taken in either a traditional or an online learning environment.

Transfer Credit: CSU

BA 118

MANAGEMENT - RETAILING

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to meet the needs of retail store managers and help prepare students for positions in retail store management. Topics covered: organizational structure, merchandise planning and control, sales promotion, pricing, and expense management.

Transfer Credit: CSU

BA 120

MANAGEMENT - ACCOUNTING AND INTERNAL CONTROL

3.0 UNITS

Class hours: 3.0 Lecture

The accounting cycle will be introduced with emphasis on understanding financial records. Instruction will be given on the internal control of the industry being studied, as well as an introduction to the analysis of the financial statements. This course can be taken in either a traditional or an online learning environment.

Transfer Credit: CSU

BA 121

SALES

3.0 UNITS

Class hours: 3.0 Lecture

This course covers opportunities in selling, development of desirable personality traits, methods of approach to prospective customers, the art of demonstrating goods, how to meet objections, and how to close the sale.

Transfer Credit: CSU

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BA 123

FUNDAMENTALS OF RETAILING 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to help the student develop an understanding of the problems, policies, and methods of merchandising as carried on in retail stores. Topics covered: careers in retailing, store layout, pricing goods, buying and receiving of merchandise and customer services.

Transfer Credit: CSU

BA 132

COMPUTER APPLICATIONS FOR MANAGERS 3.0 UNITS

Class hours: 3.0 Lecture

This survey course focuses on the business management processes and the software products that are available to assist managers, entrepreneurs, and other business professionals in the successful accomplishment of their demanding jobs in a dynamic, global, and technology-driven business environment. The course is designed to review the latest software available to assist managers in accomplishing the full spectrum of management functions to help them shift from old methods of managing to new methods using tools provided by computer technology.

Transfer Credit: CSU

BA 149

CURRENT MANAGEMENT THEORY 3.0 UNITS

Class hours: 3.0 Lecture

This course is an introduction to Total Quality Management (TQM) and other current management theories. The ideas of prominent management consultants will be reviewed, discussed, and analyzed. These theories will be compared as to how they can be applied. This course can be taken in either a traditional or an online learning environment.

Transfer Credit: CSU

BA 152

FUNDAMENTALS OF IMPORTING AND EXPORTING 3.0 UNITS

Class hours: 3.0 Lecture

This course offers the basics of importing and exporting, including U.S. Customs Service, customs brokers, duty rates, laws and regulations, currency exchange and letters of credit, storage, transportation, financing, terms of access, documentation, trade patterns by countries and commodities. This course can be taken in either a traditional or online learning environment. (Formerly BA 52)

Transfer Credit: CSU

BA 153

SMALL BUSINESS MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to acquaint the student with the knowledge of principles, procedures, and opportunities in small business management. It covers such topics as entrepreneurial opportunities, developing a business plan, marketing, operations, and financial management. It briefly covers the practical aspects of record keeping, planning, and control.

Transfer Credit: CSU

BA 155

INTRODUCTION TO GLOBAL LOGISTICS 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: BA 101 or equivalent with a grade of Pass or "C" or higher.

In this course students analyze the international environment, learn about logistics systems, and learn the correct control procedures to monitor its success. Students learn the factors involved in bringing new products to market across numerous regions, using customized design, packaging, and service offerings, while providing for quick-response delivery, linking innovation, and value-added services to product offerings.

Transfer Credit: CSU

BA 156

MOTIVATIONAL PRESENTATION SKILLS FOR MANAGERS 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to teach managers how to communicate the values, mission, and goals of the organization to create an environment that encourages motivation on the part of employees. Students learn motivational techniques and presentation skills required to be an effective business leader. Topics also include handling conflict, managing changes, and dealing effectively with stress. Emphasis is on the process of developing presentation materials, planning presentations, and using the latest communication technology with which to deliver professional, compelling presentations.

Transfer Credit: CSU

BA 157

PRINCIPLES OF PUBLIC RELATIONS 3.0 UNITS

Class hours: 3.0 Lecture

This class explores the basic theories and principles of communicating information and concepts. Emphasis is on techniques and methods, with attention given to identi-

fying audiences, using public relations tools, planning public relations programs and campaigns, promoting favorable relations with various segments of the public, and dealing with problem solving. The effective use of public information, publicity, and advertising is covered. This course is not available for students who are enrolled in or have completed JOUR 157.

Transfer Credit: CSU

BA 171

BUSINESS ADMINISTRATION WORK EXPERIENCE 1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Business Administration Occupational Work Experience, in a declared business major. One unit of Business Administration Occupational Work Experience requires 60 non-paid hours of work or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

BA 172

BUSINESS ADMINISTRATION WORK EXPERIENCE 2.0 UNITS

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Business Administration Occupational Work Experience, in a declared business major. Two units of Business Administration Occupational Work Experience require 120 non-paid hours of work or 150 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased

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understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

BA 173

BUSINESS ADMINISTRATION WORK EXPERIENCE

3.0 UNITS

Class hours: 1 hour/week coordination class.
Corequisite: Enrollment in 7 or more units, including Business Administration Occupational Work Experience, in a declared business major. Three units of Business Administration Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Business Administration Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester. Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times.

Transfer Credit: CSU

BA 174

BUSINESS ADMINISTRATION WORK EXPERIENCE

4.0 UNITS

Class hours: 1 hour/week coordination class.
Corequisite: Enrollment in 7 or more units, including Business Administration Occupational Work Experience, in a declared business major. Three units of Business Administration Occupational Work Experience

require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Business Administration Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester. Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times.

Transfer Credit: CSU

BA 200

PRINCIPLES OF BANKING

3.0 UNITS

Class hours: 3.0 Lecture

This is an introductory course in commercial banking. It will deal with issues, subjects, and situations bankers encounter today. The topics covered will include: negotiable instruments, deposits, payments, personnel, data handling, loan functions, bank services, and management of assets.

Transfer Credit: CSU

BA 201

MONEY AND BANKING

3.0 UNITS

Class hours: 3.0 Lecture

This is an introductory course whose principal objective is to explain how our modern monetary institutions can best meet the needs of society. Topics covered are monetary theory, money creation, flow, controls, national policy, and international factors. The questions of how fiscal and monetary policies may help us solve our problems will be thoroughly examined.

Transfer Credit: CSU

BA 203

MANAGEMENT DEPARTMENT OPERATIONS

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to provide the student with an awareness and appreciation of staff-supported activities in an organization. The

inter-reaction of the various departments and the work flow are analyzed for the purpose of developing a cooperative attitude among personnel of the various departments.

Transfer Credit: CSU

BA 204

PROJECT MANAGEMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course presents the essential knowledge and skills students need to make effective contributions and to have an immediate impact on the accomplishment of projects in which they are involved. It is for everyone involved in projects, not just project managers, in order to succeed in interdisciplinary and cross-functional teams. This course provides the foundation students need to be effective members of project teams and, thereby, boost everyone's potential to rise to the challenge of managing teams and projects.

Transfer Credit: CSU

BA 205

ORGANIZATIONAL LEADERSHIP

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to introduce the student to the concepts, issues, and practices that comprise the core of organizational leadership from a business and global perspective. It describes the core leadership theories, analyzes them in terms of business success, and examines leadership as it unfolds in the workplace. The various styles of leadership are identified, and the methods of developing, or improving, the student's own leadership skills are discussed.

Transfer Credit: CSU

BA 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

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BA 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

BUSINESS COMMUNICATIONS

(Business Division)

BCOM 45 (Not Degree Applicable)

EFFECTIVE COMMUNICATION

FOR MANAGERS

3.0 UNITS

Class hours: 3.0 Lecture

This course will help students develop written reports and other types of communication such as letters and surveys unique in the management field. They will learn the mechanics such as word usage and spelling related to a particular industry. Students will develop telephone and dictation techniques.

BCOM 46 (Not Degree Applicable)

BUSINESS COMMUNICATIONS

3.0 UNITS

Class hours: 3.0 Lecture

This course reviews the fundamentals of grammar, sentence structure, punctuation, capitalization, spelling, and business vocabulary building. Completion of the course fulfills 54 hours of the English requirement for the Court Reporting Certification.

BCOM 51

BUSINESS ORAL COMMUNICATION

1.5 UNITS

Class hours: 1.5 Lecture

This course focuses on the importance of good oral communication skills for success in business. It provides practice for developing speaking and listening skills within the business environment for careers in selling, marketing, and management.

BCOM 60

CUSTOMER SERVICE/TELEPHONE TECHNIQUES

1.0 UNIT

Class hours: 1.0 Lecture

This course teaches the importance of effective telephone techniques in the business office and the correct manner of identifying customer wants and needs. (Formerly BCOT 60)

BCOM 98

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

BCOM 99

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

BCOM 147

BUSINESS COMMUNICATIONS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: BCOM 46 or equivalent with a grade of Pass or "C" or higher.

Recommendation: BCOM 151 and ENGL 100 or equivalent with grades of Pass or "C" or higher.

This course integrates instruction and practice in business writing. The emphasis is on modern structure, style, vocabulary, grammar, and logical organizational patterns. The course content emphasizes memos and letters, reports, career communications, oral communication, global and multicultural issues, legal and ethical situations, and communication technology. This course can

be taken in a traditional classroom setting or in an online learning environment.

Transfer Credit: CSU

BCOM 148

EFFECTIVE BUSINESS PRESENTATIONS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: BCOM 147 or ENGL 52 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the English Placement Process.

This course is designed to develop those communication skills necessary to present effective written and oral business briefings and reports. It stresses the need to write and speak clearly, cohesively, concisely, and convincingly. Students will structure reports, both orally and written, on topics about which they are knowledgeable.

Transfer Credit: CSU

BCOM 150

INTERNATIONAL BUSINESS COMMUNICATION

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: BCOM 147 or ENGL 100 or equivalent with a grade of Pass or "C" or higher. This course covers issues and skills that are crucial to effective intercultural communication in business. The most significant issues pertaining to cross-cultural interaction are examined. Practical guidelines and information on how to conduct negotiations across countries, as well as general do's and don'ts in international business are covered. International business writing styles, formats, and content for letters, reports, resumes, presentations, and other miscellaneous business documents are emphasized.

Transfer Credit: CSU

BCOM 151

COMPUTER APPLICATIONS/ BUSINESS DOCUMENTS

1.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory

Recommendation: Concurrent enrollment in one of the following courses: BCOM 45, 147, 148, 150, or 152.

This course reinforces the critical writing skills involved in preparing effective business messages through hands-on experience in using the microcomputer. Students will use primary-computer-applications skills in word processing, spreadsheet, data management, graphics, and desktop publishing to solve communication problems in the production of typical business documents, including letters, memoranda, reports, resumes, and proposals. The applications in this course are carefully

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designed to correlate with the content coverage of primary business communication texts.
Transfer Credit: CSU

BCOM 152 **JOB SEARCH IN THE** **BUSINESS FIELD** **1.5 UNITS**

Class hours: 1.5 Lecture
Recommendation: Completion of or near completion of any certificate or AA degree in the Business Division.
This course prepares business students for the job search process. It emphasizes job search tools, techniques, and procedures for researching the labor market; health and image professional development; writing strategies for resumes, cover letters, and thank-you letters; and understanding human relations in job adjustment. This course may be taken for a maximum of 2 times.
Transfer Credit: CSU

BUSINESS COMPUTERIZED OFFICE **TECHNOLOGIES**

(Business Division)

BCOT 3T (Not Degree Applicable) **BUSINESS COMMUNICATIONS,** **WORD PROCESSING, OR** **KEYBOARDING TUTORIAL** **0.5 UNIT**

Class hours: 2.0 Laboratory
Corequisite: Enrollment in any BCOM 147, BCOM word processing or keyboarding courses.
This course is designed to facilitate and reinforce the learning of word processing functions, skills, and concepts through individualized and mediated instruction. This course is open to any student enrolled in BCOM business communications, any BCOT word processing or keyboarding course. This course may be taken a maximum of 4 times.

BCOT 5A (Not Degree Applicable) **WORD MODULE** **0.5 UNIT**

Class hours: 0.3 Lecture/0.6 Laboratory
Recommendation: Fluency in Spanish is strongly recommended.
This course instructs the students, in a bilingual mode (Spanish), in the use of microcomputers within the business environment using the Microsoft Window interface and the Microsoft Office Professional application suite (Word, Excel, Access, and PowerPoint). Students learn basic aspects of microcomputer software applications using a modular approach. This module will include topics in file management, creation/maintenance of backups, formatting

disks, and the basic concepts and use of a word processing application. This course may be taken for a maximum of 2 times.

BCOT 5B (Not Degree Applicable) **EXCEL MODULE** **0.5 UNIT**

Class hours: 0.3 Lecture/0.6 Laboratory
Recommendation: Fluency in Spanish is strongly recommended.
This course instructs the students, in a bilingual mode (Spanish), in the use of microcomputers within the business environment using the Microsoft Window interface and the Microsoft Office Professional application suite (Word, Excel, Access, and PowerPoint). Students learn basic aspects of microcomputer software applications using a modular approach. The module will include topics in file management, creation/maintenance of backups, formatting disks, and the basic concepts and use of a spreadsheet application. This course may be taken for a maximum of 2 times.

BCOT 5D (Not Degree Applicable) **POWERPOINT/INTERNET** **MODULE** **0.5 UNIT**

Class hours: 0.3 Lecture/0.6 Laboratory
Recommendation: Fluency in Spanish is strongly recommended.
This course instructs the students, in a bilingual mode (Spanish), in the use of microcomputers within the business environment using the Microsoft Window interface and the Microsoft Office Professional application suite (Word, Excel, Access, and PowerPoint). Students learn basic aspects of microcomputer software applications using a modular approach. The module will include topics in file management, creation/maintenance of backups, and formatting disks. The modules will also include the basic concepts and use of PowerPoint, a presentation application, and a basic introduction to the Internet and creating Web Pages. This course may be taken for a maximum of 2 times.

BCOT 7T **INDIVIDUALIZED COMPUTER** **LITERACY SKILLS** **0.5 UNIT**

Class hours: 1.1 Laboratory
This course increases the business students knowledge of computer technology resources on campus, improves student use of computer technology for successful completion of technology-based course assignments, and improves student confidence in utilizing computer technology. Special attention will be given to skills necessary for success in distance education courses. This course is offered on a credit/no credit basis only.

BCOT 52 **DATA ENTRY** **2.0 UNITS**

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to enable students to develop skill as data entry operators. Students will utilize a full screen data entry terminal. Data will be recorded on diskettes. Students also will be introduced to the microcomputer. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online environment.

BCOT 53 **ADVANCED DATA ENTRY** **2.0 UNITS**

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: BCOT 52 or equivalent with a grade of Pass or "C" or higher.
Recommendation: Ability to type 30 wpm and familiarity with the microcomputer, e-mail, and e-mail attachments, and to be able to complete assignments in a timely manner.
This course is designed for additional training and skills for advanced keyboarding and data entry problems. Students will learn to proofread, evaluate, and create a project report reflecting the quality and accuracy of the keyboarding projects. The students will continue to improve data entry skills by working with projects more complex than those encountered in BCOT 52. Data entry jobs will be multi-faceted utilizing multi-form screen input. Students will utilize a full screen data entry terminal. This course can be taken in a traditional classroom setting or online environment.

BCOT 62 **COMPUTER KEYBOARDING** **1.0 UNIT**

Class hours: 1.0 Lecture/0.5 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.
This course is designed for data processing and accounting students who do not know how to touch type; executives/managers/operators who use computer work stations; people who seek data entry positions; and users of personal home computers. Touch typewriting of alphabetic, numeric, and symbol keys on computers is emphasized. This course can be taken in either a traditional or an on-line learning environment.

BCOT 63 **KEYBOARDING SPEED/CONTROL** **BUILDING** **1.0 UNIT**

Class hours: 1.0 Lecture/0.5 Laboratory
Recommendation: Knowledge of keyboard and key strokes. Concurrent enrollment in BCOT 3T.
This is a nine-week course designed to provide intensive training and practice in typewriting speed and control. The students will work

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independently toward their respective goals. This course may be taken for a maximum of 3 times. This course can be taken in either a traditional or an online environment. (Formerly BCOT 135)

BCOT 70 MEDICAL MACHINE TRANSCRIPT

4.0 UNITS

Class hours: 4.0 Lecture/2.0 Laboratory
Prerequisite: BCOT 131 or BCOT 132, BCOT 162, BCOM 46, and MA 161 or equivalent with grades of Pass or "C" or higher.
Recommendation: Concurrent enrollment in BCOT 3T and the ability to type 30 wpm.
This course prepares students in medical transcription common to a medical office. This course helps students to identify correct terminology, spell and define terms, and prepare appropriate forms. Reports are dictated in different accents, dialects, and gender voices, and are typed using appropriate word processing software to simulate real medical office environments.

BCOT 71 COMPUTERS IN THE MEDICAL OFFICE

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: MA 60, MA 161 and concurrent enrollment in BCOT 3T.
This course prepares the medical/dental secretary or medical/dental office personnel to work as front office personnel in a health care practice. Students will learn to input patient information, schedule appointments, handle billing, handle insurance claims, and apply computer basics as they relate to the medical office.

BCOT 80 PROCESSING LAW OFFICE DOCUMENTS

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.
This course introduces the student to the correct style for legal documents set by common usage or by court procedure. The specific formats required by law office documents will be emphasized.

BCOT 81 LEGAL OFFICE PROCEDURES

4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: BCOT 131 or equivalent with a grade of Pass or "C" or higher. Concurrent enrollment in BCOT 3T.
This course is designed to prepare students for employment as legal secretaries. It emphasizes procedures, preparations of calendars,

formatting wills and probates. Students will learn how to document telephone calls, maintain financial records, and perform other secretarial duties relevant to a legal office. This course meets 90 hours of the legal requirement for Court Reporting certification. This course may be taken in a traditional classroom setting or online environment.

BCOT 82 SPANISH LEGAL OFFICE TERMINOLOGY/VOCABULARY

1.5 UNITS

Class hours: 1.5 Lecture
Prerequisite: SPAN 112 or SPAN 201 or equivalent with a grade of Pass or "C" or higher.
This course is for the person who has a basic background in the Spanish language and who needs to learn specific field-related terminology and vocabulary for the legal offices that serve Spanish-speaking clients.

BCOT 83 LEGAL OFFICE TERMINOLOGY/ MACHINE TRANSCRIPTION

4.5 UNITS

Class hours: 4.0 Lecture/2.0 Laboratory
Prerequisite: BCOT 131 or BCOT 132, BCOT 162, and BCOM 46 or equivalent with grades of Pass or "C" or higher.
Recommendation: Concurrent enrollment in BCOT 3T and the ability to type 30 wpm.
This course is designed to teach the student legal terminology in order to be able to transcribe and key legal documents. The student will also learn the skills and knowledge necessary for the production of high-quality legal documents through the total transcription concept and for the development of proper machine dictation skills/procedures. The emphasis is on understanding, defining, and using over 900 terms in the legal context; skillful keyboarding; and accurate proofreading to produce quality, finished legal documents on electronic equipment/microcomputers.

BCOT 89 INTERNET AS A BUSINESS COMMUNICATION TOOL

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: BCOT 62 and concurrent enrollment in BCOT 3T.
This course is designed to teach students the technological skills necessary to communicate in today's e-commerce computer-oriented business environment. The course will cover electronic mail (e-mail), desktop publishing for electronic dissemination, Web page design, electronic presentations, and Outlook. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment.

BCOT 90 MICROSOFT WORD CORE LEVEL

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.
This course introduces the student to word processing functions on the IBM compatible personal computers using Microsoft Word for Windows software. Topics include Core Level MOUS skills for Microsoft Word functions such as creating, printing, and editing word documents, formatting documents, creating and formatting tables, inserting graphic elements; and exploring the Internet. This course prepares the student for Microsoft Office User Specialist (MOUS) Word Core Certification. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment.

BCOT 91 MICROSOFT WORD EXPERT LEVEL

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.
This course emphasizes advanced word processing functions on the IBM compatible personal computers using Microsoft Word for Windows software. Topics include Expert Level MOUS Skills for Microsoft Word functions such as formatting with special features; merging documents and sorting and selecting data; working with shared documents; creating tables and indexes; recording, running, and editing macros; creating fill-in forms; and adding visual appeal to documents. This course prepares the student for Microsoft Office User Specialist (MOUS) Word Expert Certification. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment.

BCOT 92 MICROSOFT EXCEL CORE LEVEL

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.
This course introduces the student to spreadsheet functions on the IBM compatible personal computers using Microsoft Excel for Windows software. Topics include Core Level MOUS Skills for Microsoft Excel functions such as preparing and formatting an Excel worksheet, maintaining and enhancing a worksheet, moving data within and between workbooks, inserting formulas in a worksheet, creating a chart in Excel, inserting clip art

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images, and creating maps. This course prepares the student for Microsoft Office User Specialist (MOUS) Excel Core Certification. This course can be taken in a traditional classroom setting, in a individualized modular setting, or in an online learning environment.

BCOT 93 MICROSOFT EXCEL EXPERT LEVEL

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.

This course emphasizes advanced spreadsheet functions on the IBM compatible personal computers using Microsoft Excel for Windows software. Topics include Expert Level MOUS Skills for Microsoft Excel functions such as formatting Excel worksheets using advanced formatting techniques; working with templates and workbooks, using advanced functions; working with lists; using Excel's analysis tools; managing and auditing worksheets; collaborating with workgroups; importing and exporting data. This course prepares the student for Microsoft Office User Specialist (MOUS) Excel Expert Certification. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment.

BCOT 95 MICROSOFT ONENOTE

1.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.

This course will teach the fundamentals of Microsoft OneNote, a note-taking program. The course will expose students to practical examples of the computer as a useful tool. It will acquaint students with organizing, storing, and using notes electronically for school lectures, work, personal, office, etc. It will develop an exercise-oriented approach that allows learning by doing. Students will learn to create pages that are organized in sections, just as in a physical notebook; and if they enter handwriting from a Tablet PC, OneNote can convert handwriting to text. Students will learn to incorporate pictures and data into their notes as well as many other features.

BCOT 96 MICROSOFT POWERPOINT

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.

This course introduces the student to Microsoft PowerPoint software applications. Topics include Microsoft PowerPoint functions: preparing, editing, and formatting a presentation, adding animation,

using WordArt and creating organizational charts, adding visual elements, modifying a presentation, importing and exporting data, customizing and creating a slide show, and creating output and delivering presentations. This course prepares the student for Microsoft Certified Application Specialist (MCAS) certification for Microsoft PowerPoint. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment. This course may be taken a maximum of 2 times.

BCOT 97 MICROSOFT OUTLOOK

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.

This course introduces the student to Microsoft Outlook software applications. Topics include Microsoft Outlook functions: sending and receiving e-mail, organizing schedules and events, and maintaining contact lists, to-do lists, notes, and a journal. This course prepares the student for Microsoft Certified Application Specialist (MCAS) certification for MS Outlook. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment. This course may be taken a maximum of 2 times.

BCOT 98 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

BCOT 99 DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for

conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

BCOT 108 WORDPERFECT FOR WINDOWS

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: Ability to type 30 wpm and concurrent enrollment in BCOT 3T.

This course offers students the opportunity to learn WordPerfect for Windows, which is an advanced word processing program. This course will further prepare students for a successful business career. This course can be taken in either a traditional or an online learning environment.

Transfer Credit: CSU

BCOT 111 MS PROJECT FOR OFFICE PROFESSIONALS

1.5 UNITS

Class hours: 1.5 Lecture/0.8 Laboratory
This course teaches Microsoft Project software application for administrative assistants and office support staff. It is a course that concentrates on showing students the step-by-step application procedures to create a business project plan using the Microsoft Project software. Students will learn to create a complete project schedule with tasks and task relationships. They will edit and organize a project, assign resources to the tasks, use Project views to get information, format, and print views, Gantt charts, calendars, and reports. Students will learn to sort, find, and filter tasks or resources in a project; administer the project's resources, administer and view cost information, and track the completion of tasks in the project. This course will also prepare students for the Microsoft Certified Application Specialist (MCAS) exam. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

BCOT 112 MICROSOFT WORD

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: Ability to type 30 wpm and concurrent enroll.

This course introduces the student to Microsoft Word software applications. Topics include Microsoft Word functions: creating, printing, and editing word documents, formatting text and using help, enhancing the visual display and clarity of documents, working with multiple documents, formatting documents, creating and formatting tables, inserting graphic elements exploring the Internet, formatting with special features, merging

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documents and sorting and selecting data, working with shared documents, creating tables and indexes, recording, running, and editing macros, creating fill-in forms, and adding visual appeal to documents. This course prepares the student for Microsoft Certified Application Specialist (MCAS) certification for Microsoft Word. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment. (This course is not open to students with credit in BCOT 90 and BCOT 91). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

BCOT 113 MICROSOFT EXCEL 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.

This course introduces the student to Microsoft Excel software applications. Topics include Microsoft Excel functions: preparing and formatting an Excel worksheet, maintaining and enhancing a worksheet, moving data within and between workbooks, inserting formulas in a worksheet, creating a chart in Excel, inserting clip art images, creating maps, formatting Excel worksheets using advanced formatting techniques, working with templates and workbooks using advanced functions, working with lists, using Excel's analysis tools, managing and auditing worksheets, collaborating with workgroups, and importing and exporting data. This course prepares the student for Microsoft Certified Application Specialist (MCAS) certification for Microsoft Excel. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment. This course may be taken a maximum of 2 times. (This course is not open to students with credit in BCOT 92 and BCOT 93.)

Transfer Credit: CSU

BCOT 114 INTRODUCTION TO MICROSOFT OFFICE 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: Ability to type 30 wpm and concurrent enrollment in BCOT 3T.

This course is designed to teach students business applications software and office skills using windows compatible computers and Microsoft Office (Word, Excel, Access, and PowerPoint) to integrate the multifaceted tasks within the office environment. Concepts and skills include creating, editing, and printing letters, memos, reports, presentations, graphics, overheads, business figure

analysis, miscellaneous office documents, and maintenance/modification of databases. This course can be taken in either a traditional or an on-line learning environment.

Transfer Credit: CSU

BCOT 115 ADVANCED MICROSOFT OFFICE 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: BCOT 114 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Concurrent enrollment in BCOT 3T.

This course extends the students' basic knowledge of Microsoft Office (Microsoft Word, Microsoft Excel, Microsoft Access, and Microsoft PowerPoint). Students will learn the proper procedures to create advanced documents by designing, integrating, and merging letters, reports, workbooks, databases, and presentations suitable for professional purposes. It will help students demonstrate their proficiency in the Microsoft Office applications by preparing them to pass the Microsoft Office Specialist Certification (MOS) exams. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment.

Transfer Credit: CSU

BCOT 116 DESKTOP PUBLISHING - WORD FOR WINDOWS 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Prerequisite: BCOT 112 or equivalent with a grade of Pass or "C" higher.

Recommendation: BCOT 51 or equivalent with a grade of Pass or "C" or higher.

This course is for students already familiar with word processing. Applications of key concepts develop skills in critical thinking, decision making and creativity in planning, designing, and evaluating documents. These documents include letterheads, business cards, personal documents, flyers, brochures, promotional documents, charts, transparencies, presentation materials, newsletters, reports, manuals, and booklets. The visual appeal of business and personal documents is enhanced with variable page layouts using standardized type and graphic design techniques along with Word templates. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online environment. (This course is intended for the business office professional and not the graphic artist.)

Transfer Credit: CSU

BCOT 117 DESKTOP PUBLISHING - MICROSOFT PUBLISHER 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.

This course provides an introduction to the functions of Microsoft Publisher software. Microsoft Publisher will be used to create camera-ready printed presentation materials. The course will cover the fundamentals required to develop presentation materials such as business forms, letterhead, business logos, advertisements, organization charts, mail-order catalogs, three-fold brochures, and newsletters. This course is intended for the business professional not the graphic artist. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online environment.

Transfer Credit: CSU

BCOT 120 INTEGRATED BUSINESS OFFICE PROJECTS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: BCOT 114 or BCOT 112, BCOT 113, and BCOT 96, with grades of Pass or "C" or higher.

Recommendation: Concurrent enrollment in BCOT 3T.

This course is a realistic business office simulation designed to help students reinforce and build software skills, improve Internet skills, and develop teamwork and critical thinking skills. Through simulation, students will work as an administrative assistant in the operation of a small business as they work through various departments for the owner of a company. Projects assigned contain numerous related jobs of varying difficulty. Each job begins with a list of software skills that students will apply. Some jobs are further divided into related tasks. General information and step-by-step directions are provided for completing jobs. Students will work from source documents provided in the text and use data files to complete jobs.

Transfer Credit: CSU

BCOT 131 BEGINNING COLLEGE KEYBOARDING & DOCUMENT PROCESSING 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: Concurrent enrollment in BCOT 3T.

This is a basic course in typing designed to teach control of the keyboard by touch. The student will learn basic computer parts and

terminology. This course can be taken in either a traditional or an on-line learning environment.

Transfer Credit: CSU

BCOT 132
COLLEGE KEYBOARDING
& DOCUMENT PROCESSING
REVIEW

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
 Recommendation: Computer keyboard skills and ability to type 25 wpm. Concurrent enrollment in BCOT 3T.

This course provides a review for those students who have had previous keyboarding and document processing experience. Touch control of the keyboard and proper typing techniques; keyboarding speed and accuracy; and the application of basic word processing computer skills in the formatting of reports, letters, memos, tables, e-mail correspondence, and other types of either a traditional or in an online learning environment. (Formerly BCOT 61)

Transfer Credit: CSU

BCOT 133
ADVANCED COLLEGE
KEYBOARDING & DOCUMENT
PROCESSING

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: BCOT 131 or BCOT 132 or equivalent with a grade of Pass or "C" or higher.
 Recommendation: Concurrent enrollment in BCOT 3T.

In this course the student develops speed and control in typing as well as attains a working knowledge of business papers, facility in tabulation, and skill in production typing. This course can be taken in either a traditional or an on-line learning environment.

Transfer Credit: CSU

BCOT 155
ADMINISTRATIVE SECRETARIAL
PROCEDURES

4.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Recommendation: BCOT 131 or equivalent with a grade of Pass or "C" or higher. Concurrent enrollment in BCOT 3T.

This course will emphasize the planning, organizing, problem solving, and human relation skills needed by secretaries at the administrative level. Employed or re-entry office support personnel may use this class for a refresher course or for professional purposes. This course can be taken in a traditional classroom setting or online environment.

Transfer Credit: CSU

BCOT 161
PRINCIPLES OF FILING

1.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory
 Recommendation: Concurrent enrollment in BCOT 3T.

This is a computerized filing course that covers the principles of information processing, storage, and retrieval. Instruction is given in the rules of indexing and alphabetizing. A study will be made of geographic, numeric, subject, microfilming, and magnetic tape storage systems. Practice will be given in the processing of materials, filing, indexing, alphabetizing, coding, creating filenames and filename extensions for electronic files, and storing and retrieving electronic data to and from directories and subdirectories.

Transfer Credit: CSU

BCOT 162
BUSINESS SPELLING AND
PROOFREADING SKILLS

3.0 UNITS

Class hours: 3.0 Lecture
 Recommendation: Concurrent enrollment in BCOT 3T.

This course is designed to teach and reinforce accurate spelling, vocabulary, word usage, and proofreading skills with a distinct business orientation. It emphasizes the business context of these basic communications skills, which are needed for integration into other courses such as typewriting, machine transcription, shorthand, office procedures, and court reporting. This course meets 54 hours of the English requirement for Court Reporting Certification.

Transfer Credit: CSU

BCOT 163
MACHINE TRANSCRIPTION

4.5 UNITS

Class hours: 4.0 Lecture/2.0 Laboratory
 Prerequisite: BCOT 131 or BCOT 132, or BCOT 162 and BCOM 46, or equivalent courses with grades of Pass or "C" or higher.

Recommendation: Concurrent enrollment in BCOT 3T.

This is a course designed to teach the skills and knowledge necessary for the production of high-quality business documents through the total transcription concept (from handwritten copy, from machine dictation, or from shorthand dictation) and for the development of proper machine dictation skills/procedures. The emphasis is on the development of language arts skills, skillful keyboarding, and accurate proofreading in producing quality finished documents on electronic equipment/microcomputers.

Transfer Credit: CSU

BCOT 173
BUSINESS COMPUTERIZED OFFICE
TECHNOLOGIES OCCUPATIONAL
WORK EXPERIENCE

3.0 UNITS

Class hours: 1 hour/week coordination class.

Corequisite: Enrollment in 7 or more units, including Business Computerized Office Technologies Occupational Work Experience, in a declared business major. Three units of Business Computerized Office Technologies Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Business Computerized Office Technologies Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times.

Transfer Credit: CSU

BCOT 174
BUSINESS COMPUTERIZED OFFICE
TECHNOLOGIES OCCUPATIONAL
WORK EXPERIENCE

4.0 UNITS

Class hours: 1 hour/week coordination class.

Corequisite: Enrollment in 7 or more units, including Business Computerized Office Technologies Occupational Work Experience, in a declared business major. Three units of Business Computerized Office Technologies Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Business Computerized Office Technologies Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim

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of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times.

Transfer Credit: CSU

CHEMISTRY

(Science, Engineering, Mathematics Division)

CHEM 100 (CAN CHEM 6) INTRODUCTORY CHEMISTRY 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: MATH 40 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of Math Placement Process.
Recommendation: It is strongly recommended that the preceding prerequisite be completed within four years prior to the date of enrollment in CHEM 100.

This course is an introduction to the basic principles of inorganic and organic chemistry and biochemistry with their application to problems encountered in our everyday lives. The course includes the metric system, atomic structure, bonding, solutions, chemical reactions, hydrocarbons, functional groups, carbohydrates, lipids, and proteins. It is designed to give a general introduction to fundamental concepts and to prepare students for majors in nursing, dental hygiene, physician assistant, physical therapy assistant, liberal arts, and technical fields. (Not open to those with credit in more advanced courses.)

Transfer Credit: CSU; UC*

*UC credit limits may apply: CHEM 100 and CHEM 110 combined: maximum credit, one course. No credit for CHEM 100 or CHEM 110 if taken after CHEM 111.

CHEM 105 CHEMISTRY FOR ELEMENTARY SCHOOL TEACHERS 1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
Prerequisite: MATH 105 or MATH 110A or concurrent enrollment or equivalent with a

grade of Pass or "C" or higher, or satisfactory completion of the Math Placement Process.

This course is an introduction to the basic principles of chemistry with application to problems encountered in everyday lives. The course includes the metric system, atomic structure, bonding, solutions, chemical reactions, simple and complex molecules, everyday organic and biochemical compounds. It is designed to give a general introduction to fundamental concepts and to prepare students for teaching at the elementary level.

Transfer Credit: CSU

CHEM 110 ELEMENTARY CHEMISTRY 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: MATH 80 or MATH 80B or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

Recommendation: It is strongly recommended that the preceding prerequisite be completed within four years prior to the date of enrollment in CHEM 110.

This introductory inorganic chemistry course emphasizes basic principles, formulas, equations, and chemical math problems. It is designed for students with little or no previous chemistry and prepares students for CHEM 111, General Chemistry.

Transfer Credit: CSU; UC*

*UC credit limits may apply: CHEM 100 and CHEM 110 combined: maximum credit, one course. No credit for CHEM 100 or CHEM 110 if taken after CHEM 111.

CHEM 111 (CAN CHEM 2) (CAN CHEM SEQ A) GENERAL CHEMISTRY 5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory
Prerequisite: CHEM 110 or equivalent with a grade of Pass or "C" or higher and MATH 80 or MATH 80B or equivalent with grades of Pass or "C" or higher (satisfactory completion of the Math Placement Process may be substituted for MATH 80).

Recommendation: It is strongly recommended that all of the preceding prerequisites be completed within four years prior to the date of enrollment in CHEM 111.

This course is designed for science majors. It includes stoichiometry; properties and changes of state for gases, liquids and solids; solutions; colloids; equilibria of gases, weak acids and bases, and slightly soluble compounds.

Transfer Credit: CSU; UC

CHEM 112 (CAN CHEM 4) (CAN CHEM SEQ A) GENERAL CHEMISTRY 5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory
Prerequisite: CHEM 111 or equivalent with a grade of Pass or "C" or higher or equivalent.

Recommendation: It is strongly recommended that the preceding prerequisite be completed within four years prior to the date of enrollment in CHEM 112.

This course is designed for science majors and is a continuation of CHEM 111. It includes oxidation-reduction; electrochemistry; modern atomic structure and bonding; molecular geometry; coordination chemistry; nuclear chemistry; thermodynamics; kinetics and organic chemistry. The laboratory includes some qualitative analysis.

Transfer Credit: CSU; UC

CHEM 205 (CAN CHEM 12) QUANTITATIVE ANALYSIS CHEMISTRY 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Prerequisite: CHEM 112 or equivalent with a grade of Pass or "C" or higher.

Recommendation: It is strongly recommended that the preceding prerequisite be completed within four years prior to the date of enrollment in CHEM 205.

This course is an introduction to theories and techniques of gravimetric, volumetric, colorimetric, and electro-analytic methods of analysis. The course is designed for majors in chemistry, engineering, medicine, dentistry, pharmacy, and laboratory technology.

Transfer Credit: CSU; UC

CHEM 211 ORGANIC CHEMISTRY 5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory
Prerequisite: CHEM 112 or equivalent with a grade of Pass or "C" or higher.

Recommendation: It is strongly recommended that the preceding prerequisites be completed within four years prior to the date of enrollment in CHEM 211.

This course is the first part of a one-year Organic Chemistry course that includes topics on the properties and reactions of aliphatic and aromatic organic compounds. Emphasis is placed on reaction mechanisms, fundamental principles, and modern instrumental methods. The laboratory experiments will stress synthesis, techniques, and spectroscopic and qualitative analysis.

Transfer Credit: CSU; UC

CHEM 212 ORGANIC CHEMISTRY 5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory
Prerequisite: CHEM 211 or equivalent with a grade of Pass or "C" or higher.

Recommendation: It is strongly recommended that the preceding prerequisite be completed within four years prior to the date of enrollment in CHEM 212.

This course is the second part of a one-year

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Organic Chemistry course that includes topics on the properties, and reactions of aliphatic and aromatic organic compounds. Emphasis is placed on reaction mechanisms, fundamental principles and modern instrumental methods. The laboratory experiments will stress synthesis, techniques, and spectroscopic and qualitative analysis.

Transfer Credit: CSU; UC

CHEM 250L SPECIAL TOPICS IN CHEMISTRY 1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: CHEM 111 or equivalent with a grade of Pass or "C" or higher or equivalent.

This course is primarily for chemistry or related science majors. Individual research problems are explored using materials, equipment and techniques not available to larger classes. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU, UC credit determined after admission

CHEM 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 0.3 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CHILD DEVELOPMENT

(Health Occupations Division)

CD 98 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes

and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

CD 110 CHILD DEVELOPMENT 3.0 UNITS

Class hours: 3.0 Lecture

This course explores the physical, cognitive/language, and socio-emotional development of the child from the prenatal through adolescent period across diverse cultures with an emphasis on the learning process and developmentally appropriate teaching practices. The student will also learn the effect of family, peers, and society upon children at different ages. This course meets the Department of Social Services Classification Indicator DS 1.

Transfer Credit: CSU; UC

CD 115 PARENT SCHOOL PARTNERSHIPS 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to introduce students to various current family, school, and community partnership models and approaches. Students will acquire knowledge and skills toward fostering two-way partnerships with families and communities of diverse backgrounds from primary through high school. Historical, legal, social, and political perspectives regarding educational access and equity for diverse student populations found in contemporary classrooms will be addressed. Teacher candidates will also broaden their knowledge and understanding of ethnically and linguistically diverse families and communities to be more effective in building relationships with them.

Transfer Credit: CSU

CD 124 THE CHILD IN A DIVERSE SOCIETY 3.0 UNITS

Class hours: 3.0 Lecture

This course covers the principles of implementing a bias-free, anti-bias, and multicultural curriculum for young children. Race, ethnicity, class, gender, exceptionality, and age will be discussed along with the social and cultural conditions that influence a young child's education. Emphasis will be placed on helping the child understand one's own culture as well as the culture of others.

Transfer Credit: CSU

CD 139 OBSERVATION, ASSESSMENT, AND POSITIVE GUIDANCE OF CHILDHOOD BEHAVIOR 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: CDEC 111 and CD 110 or equivalent with grades of Pass or "C" or higher.

This course covers the theories of behavior, guidance techniques, and effective communication, observational, assessment, and documentation of young and school-age children. The emphasis will be on developing an understanding of children's behavior and encouraging positive self-esteem while helping the child work toward self-control. Content will cover understanding observation as an integral part of appropriate instruction and intervention. This course is not open to students who have received credit for CD 137 and CD 138.

Transfer Credit: CSU

CD 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CD 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum

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of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CHILD DEVELOPMENT/EARLY CHILDHOOD

(Health Occupations Division)

CDEC 62 EXPLORING CREATIVE ART EXPRESSION BY CHILDREN 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CDEC 112 or equivalent with a grade of Pass or "C" or higher.

This course explores expressive visual arts experiences for children. The major focus will be on documenting and assessing the learning and thinking process of children and how it develops through exploration, discovery, and the creation of images, using a variety of art materials. This course meets the Department of Social Services Classification Indicator DS3.

CDEC 63 EARLY CHILDHOOD EXPERIENCE IN LANGUAGE ARTS AND SOCIAL SCIENCES 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CDEC 112 or equivalent with a grade of Pass or "C" or higher.

This course will acquaint the student with developmentally appropriate language, literature, social sciences, and dramatic activities for children. Instruction will cover pre-reading, pre-writing, and the development of listening and speaking skills. Special needs and diversity issues involved in the development of literacy skills are introduced. This course meets the Department of Social Services Classification Indicator DS3.

CDEC 65 MUSIC AND MOVEMENT FOR CHILDREN 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CDEC 112 or equivalent with a grade of Pass or "C" or higher.

This course focuses on principles and methods of providing creative musical and movement experiences for children. The student will also have the opportunity to learn how to use simple musical instruments suitable for use in Early Childhood Education programs. This course meets the Department of Social Services Classification Indicator DS 3.

CDEC 66 ADVANCED ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD EDUCATION PROGRAMS 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CD 110, CDEC 111, CDEC 112, and CDEC 113 or equivalent with grades of Pass or "C" or higher.

This course will acquaint the student with the role of the director/supervisor in a child care program. Content includes laws governing child care in California, admission procedures, recordkeeping, budget, finance, the physical plant, and staffing concerns. This course meets the Department of Social Services Classification Indicator DS 6.

CDEC 67 ADVANCED ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD EDUCATION PROGRAMS 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CDEC 66 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Teaching experience

This course offers advanced information for administrators or directors in the child care professions. The student will explore legislative updates, current issues, families at risk, professionalism, Child Development Associates, National Association for the Education of Young Children Accreditation, and marketing strategies. This course meets the Department of Social Services Classification Indicator DS 6.

CDEC 111 PRINCIPLES AND PRACTICES IN EARLY CHILDHOOD EDUCATION 3.0 UNITS

Class hours: 3.0 Lecture

This course provides a survey of the field of Early Childhood Education emphasizing history and recent trends. It includes an introduction to different types of programs and the vocational opportunities available. Field trips to schools for young children will be featured. This course meets the Department of Social Services Classification Indicator DS 3.

Transfer Credit: CSU

CDEC 112 EARLY CHILDHOOD EDUCATION CURRICULUM 3.0 UNITS

Class hours: 3.0 Lecture

This introductory course presents current concepts in childhood curriculum development and implementation. Emphasis is placed on developmentally appropriate curricular practices for an effective program

for young children. The student will construct curriculum and assess its appropriateness in meeting diverse needs, levels of functioning and interest of children. This course meets the Department of Social Services Classification Indicator DS 3.

Transfer Credit: CSU

CDEC 113 THE CHILD, FAMILY AND COMMUNITY 3.0 UNITS

Class hours: 3.0 Lecture

This is a course for anyone who deals with children: parents, teachers, and professionals in human services. Topics discussed are the influences on children's growth and development by the family, the school, child-care facilities, the peer group, the mass media, and the community. Also examined are how these forces interact to socialize and produce the child's values, morals, attitudes, behavior, and self-esteem. This course meets the Department of Social Services Classification Indicator DS 2.

Transfer Credit: CSU

CDEC 133 EARLY CHILDHOOD EXPERIENCES IN MATHEMATICS AND SCIENCE 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CDEC 112 or equivalent with a grade of Pass or "C" or higher.

This course will acquaint the student with developmentally appropriate mathematics and science activities for pre-kindergarten children. Activities for this age group in counting, sets, earth and life sciences, classification of objects, and cooking experiences will be presented. This course meets the Department of Social Services Classification Indicator DS 3.

Transfer Credit: CSU

CDEC 161 NUTRITION, HEALTH, AND SAFETY IN CHILDREN'S PROGRAMS 3.0 UNITS

Class hours: 3.0 Lecture

This course offers an opportunity to study the attitudes and habits essential for the general physical health, mental health, and safety of teacher, parent, and child. Topics covered are the following: nutrition; school menus; common childhood diseases; federal, state, and local nutrition and safety regulations; and other special health problems of Early Childhood Education Programs. Instruction includes health-protection resources provided by home, school, and community. This course meets the Department of Social Services Classification Indicator DS 7. (Formerly CDEC 61)

Transfer Credit: CSU

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

CDEC 164
EARLY CHILDHOOD EDUCATION
PRACTICUM 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
 Prerequisite: CDEC 111 and CDEC 112 or equivalent with grades of Pass or "C" or higher.

This course is designed to provide an opportunity for students placed in the Cerritos College Child Development Center and off-site practica to explore the relationship between theory and practice in programs for young children. The course includes both lecture and laboratory experiences during which students will examine developmental issues, the role of the teacher/caregiver in early childhood programs, and the relationship between programs and families. Students will explore and practice techniques for the observation and recording of behavior; examine environments for young children; and plan, implement, and evaluate developmentally appropriate, culturally relevant experiences for young children. Students spend 3 hours/week in placement for a total of 51 hours/semester. TB clearance and good health are required to participate in this course. This course meets the Department of Social Services Classification Indicator DS 3.

Transfer Credit: CSU

CDEC 173
EARLY CHILDHOOD EDUCATION
OCCUPATIONAL WORK
EXPERIENCE 3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Early Childhood Education work experience 173 or 20 hours of employment per week for Early Childhood Education work experience 174. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in Child Development vocational program of 7 or more units in major including Occupational Work Experience. Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experience that are new or are an expansion of their regular responsibilities. This course may be taken a maximum of 4 times based on the number of hours on the job. This course meets the Department of Social Services Classification Indicator DS 3.

Transfer Credit: CSU

CDEC 174
EARLY CHILDHOOD EDUCATION
OCCUPATIONAL WORK
EXPERIENCE 4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Early Childhood Education work experience 173 or 20 hours of employment per week for Early Childhood Education work experience 174. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in Child Development vocational program of 7 or more units in major including Occupational Work Experience.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experience that are new or are an expansion of their regular responsibilities. This course may be taken a maximum of 4 times based on the number of hours on the job. This course meets the Department of Social Services Classification Indicator DS 3.

Transfer Credit: CSU

CDEC 230
ADULT SUPERVISION IN
CHILD CARE PROGRAMS 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CD 110, CDEC 111, CDEC 112, and CDEC 113 or equivalent with grades of Pass or "C" or higher.

This course is a study of the methods and principles of supervising student teachers, assistant teachers, parents and volunteers in early childhood education/child development classrooms. Emphasis is on the role of the classroom teachers who function as mentors to new teachers while simultaneously addressing the needs of children, parents, and other staff. This course meets the requirement for a course in adult supervision for the California Child Development Permit.

Transfer Credit: CSU

CDEC 298
DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete

the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CDEC 299
DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CHILD DEVELOPMENT/FAMILY
CHILD CARE

(Health Occupations Division)

CDFC 10 (Not Degree Applicable)
FAMILY CHILD CARE
PROVIDERS 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed for a person interested in or already managing a child care business in the home. Licensing procedures, appropriate standards, recruitment of children, cultural issues, provision and maintenance of a safe and stimulating environment, nutrition programs, community resources, record keeping and other business aspects are covered. Emphasis is on nurturing children, working cooperatively with parents, and the importance of a good self-concept for the child and the family child care provider.

CHILD DEVELOPMENT/ INSTRUCTIONAL AIDE

(Health Occupations Division)

CDIA 73

EDUCATIONAL PARAPROFESSIONAL OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: One (1) hours control class each week plus 15 hours of employment per week for Instructional Aide work experience 73 or 20 hours of employment per week for Instructional Aide work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in the Instructional Aide vocational program with 7 or more units including occupational work experience.

Occupational Work Experience is a supervised employment program in an approved workstation related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. Students who are not employed but wish to gain work experience may be placed in a non-paying position if such opportunities are available. These courses may be taken for a maximum of 2 times based on the number of hours on the job.

CDIA 74

EDUCATIONAL PARAPROFESSIONAL OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hours control class each week plus 15 hours of employment per week for Instructional Aide work experience 73 or 20 hours of employment per week for Instructional Aide work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in the Instructional Aide vocational program with 7 or more units including occupational work experience.

Occupational Work Experience is a supervised employment program in an approved workstation related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. Students who are not employed but wish to gain work experience may be placed in a non-paying position if such opportunities are available. These courses may be taken for a maximum of 2 times based on the number of hours on the job.

CDIA 90

INTRODUCTION TO ELEMENTARY AND SECONDARY CLASSROOM EXPERIENCE

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to introduce students to principles of classroom experiences. In addition to the dynamics of grade level instruction, emphasis is placed on how children learn, the curriculum of the classroom, discipline and guidance techniques and the role of the paraprofessional or volunteer within a school setting. Attention will be placed on bilingual, multicultural instruction, and special education.

CDIA 99

EDUCATIONAL PARAPROFESSIONAL PRACTICUM

3.0 UNITS

Class hours: 1.0 Lecture/6.0 Laboratory

This course offers the student the opportunity to work as an instructional aide under the supervision of professional staff in an elementary or secondary school setting. Content will include developing skills, techniques, and strategies for working in the multilingual/multiethnic classroom. Classroom placement will be arranged for those students not employed by a school district. This course may be taken a maximum of 2 times.

CHILD DEVELOPMENT/INFANT TODDLER

(Health Occupations Division)

CDIT 50

INFANT/TODDLER CARE GIVING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CD 110 or equivalent with a grade of Pass or "C" or higher.

The principles of a sound infant/toddler care program are explored. The course content includes roles of the director, teacher and aide, laws and regulations, and considerations relating to learning objectives, developmental needs and other key factors. This course meets the Department of Social Services Classification Indicator DS 4.

CDIT 151

INFANT AND TODDLER DEVELOPMENT

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: CD 110 or equivalent with a grade of Pass or "C" or higher.

This course is an in-depth investigation of

the social, emotional, physical, and cognitive development patterns of infants and toddlers, both theoretically and through direct observation. This course meets the Department of Social Services Classification Indicator DS4. (Formerly CDIT 51)

Transfer Credit: CSU

CDIT 152

INFANT AND TODDLER PROGRAMS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: CD 110 and CDIT 151 or equivalent with grades of Pass or "C" or higher.

This course explores program models for children from birth to three years of age, addressing program goals, philosophies, curriculum, building relationships with infants, toddlers and families, safety routines, physical space and equipment, as well as infant and family needs especially in a group setting. This course meets the Department of Social Services Classification Indicator DS 4. (Formerly CDIT 52)

Transfer Credit: CSU

CHILD DEVELOPMENT/PARENT EDUCATION

(Health Occupations Division)

CDPE 10 (Not Degree Applicable)

INTRODUCTION TO FAMILY DEVELOPMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course offers the student a comprehensive introduction to the process of parenting from conception through adolescence. It offers an appreciation of challenges and pleasures of parenting as well as practical solutions to common problems.

CHILD DEVELOPMENT/SCHOOL AGE

(Health Occupations Division)

CDSA 152

SCHOOL-AGE CHILD CARE SUPERVISION AND ADMINISTRATION

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CD 110 or equivalent with a grade of Pass or "C" or higher.

This course presents the principles of administration and supervision of school-age child care programs. Emphasized are the role of the director, teacher, and aide; laws and

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regulations; and a study of objectives, curricula, developmental needs, and other key factors for operating such programs. The unique features of before-and-after-school care as opposed to the regular school day will be stressed. This course meets the Department of Social Services Classification Indicator DS 6.

Transfer Credit: CSU

CDSA 155 SCHOOL-AGE CHILD CARE ACTIVITIES

3.0 UNITS

Class hours: 3.0 Lecture

This course presents activities for the 6-12 year-old child in an extended day care setting. Focus is on cognitive, physical, psychosocial, and creative aspects of development, as well as positive approaches to guidance. This course meets the Department of Social Services Classification Indicator DS 5.

Transfer Credit: CSU

CDSA 259 SCHOOL-AGE CHILD CARE PRACTICUM

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: CDSA 155 or equivalent with a grade of Pass or "C" or higher.

This course provides practical experiences in an extended child care program. It provides the opportunity to assist the teacher in the Center by planning, preparing, and implementing activities with school-age children. Students will also explore guidance techniques, room environment, tutoring, record keeping, and other extended child care responsibilities. This course meets the Department of Social Services Classification Indicator DS 5.

Transfer Credit: CSU

CDSA 298 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CDSA 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

CHILD DEVELOPMENT/SPECIAL EDUCATION

(Health Occupations Division)

CDE 50 SURVEY OF SPECIAL EDUCATION

3.0 UNITS

Class hours: 3.0 Lecture

This course surveys the field of special education emphasizing the role of the Special Education Assistant in the training of the exceptional individuals. It includes an introduction to the types of special need children and adults, the function of the assistant, and the vocational opportunities available.

CDE 52 SPECIAL EDUCATION INCLUSION IN EARLY CHILDHOOD PROGRAMS

3.0 UNITS

Class hours: 3.0 Lecture

This course is a comprehensive overview of early childhood inclusion as it applies to children from birth to age eight. It offers a broad study of early childhood special education as it relates to inclusion. The course will cover federal and state laws and regulations, terminology and definitions, appropriate practices and interventions, behavioral issues, family support and guidance and "whole child/whole family" approach to inclusion success.

CDE 73 SPECIAL EDUCATION ASSISTANT OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Special Education Assistant work experience 73 or 20 hours of employment per

week for Special Education Assistant work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in the Special Education Assistant vocational program with 7 or more units including occupational work experience.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be taken a maximum of 4 times based on the number of hours on the job. This course meets the Department of Social Services Classification Indicator DS 3.

CDE 74 SPECIAL EDUCATION ASSISTANT OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Special Education Assistant work experience 73 or 20 hours of employment per week for Special Education Assistant work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in the Special Education Assistant vocational program with 7 or more units including occupational work experience.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be taken a maximum of 4 times based on the number of hours on the job. This course meets the Department of Social Services Classification Indicator DS 3.

CHINESE

(Liberal Arts Division)

CHIN 101 ELEMENTARY CHINESE

5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

This beginning Chinese course emphasizes the acquisition of basic skills in pronunciation, listening, speaking, reading, writing, and the grammar and vocabulary necessary to acquire skills. Students will also be introduced to the customs, culture, and geography of

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China through lectures, films, and reading assignments. This course is not recommended for native speakers.

Transfer Credit: CSU; UC

COMPUTER AND INFORMATION SCIENCES

(Science, Engineering, Mathematics Division)

CIS 5C (Not Degree Applicable)

BUSINESS COMPUTER INFORMATION SYSTEMS DATABASE MODULE

0.5 UNIT

Class hours: 0.3 Lecture/0.6 Laboratory

Recommendation: Fluency in Spanish is strongly recommended.

This course instructs the students, in a bilingual mode (Spanish), in the use of microcomputers within the business environment using the Microsoft Window interface and the Microsoft Office Professional application suite (Word, Excel, Access, and PowerPoint). Students learn basic aspects of microcomputer software applications using a modular approach. The module will include topics in file management, creation/maintenance of backups, formatting disks, and the basic concepts and use of a database application. This course may be taken for a maximum of 2 time. (Not open to students with credit in CIS 102).

CIS 50

BASIC COMPUTER LITERACY

0.5 UNIT

Class hours: 2.0 Laboratory

This course provides the student with a basic overview of the components of a computer and application software. This course is for the student who is not familiar with the use of the computer and its applications. Topics will include a basic introduction to computer systems hardware, Windows, Word, Excel, and PowerPoint. The class stresses hands-on use of the computer with its applications.

CIS 52

DATA PROCESSING MATHEMATICS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the Math Placement Process or MATH 40 or equivalent with a grade of Pass or "C" or higher.

This course will provide students with an understanding of basic mathematical concepts, as used in computer applications. Students will solve problems in fundamental algebra using linear and nonlinear functions, study inventory statistics and probability and their relationships to each other, and learn to set up

and solve formula relationships, including direct and indirect proportions. Other topics will include number systems, logic, mathematics of elementary finance, table structures, Boolean algebra, and basic geometric concepts, including some coordinate geometry.

CIS 54A

EXCEL FOR WINDOWS PART 1

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: CIS 105 or equivalent with a grade of Pass or "C" or higher.

This course provides an introduction to the functions of Microsoft Excel for Windows spreadsheet. The fundamentals of building worksheets include creating worksheets, cell formatting, functions, formulas, Wizards, and the creation of basic charts. Techniques to deal with large worksheets are covered. Templates, macros and database functions are previewed. Hands-on exercises are used to reinforce the functions of Excel.

CIS 54B

EXCEL FOR WINDOWS PART 2

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Prerequisite: CIS 54A or equivalent with a grade of Pass or "C" or higher.

This course continues to explore the functions of the Microsoft Excel for Windows spreadsheet. The fundamentals of building worksheets will include creating worksheets, formatting, functions, formulas, macros, data tables, analysis tools, and the creation of charts. Techniques to deal with multiple worksheets and large worksheets will be covered. The database functions of Excel will include: sorting, filtering, queries, macros, and record retrieval. Hands-on exercises will be used to reinforce the functions of Excel.

CIS 56

MICRO DISK

OPERATING SYSTEMS

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: CIS 101 or CIS 102 or equivalent with a grade of Pass or "C" or higher.

This course is designed to acquaint students with the functions of the MS-DOS operating system. Students will learn the basics of the MS-DOS operating system required to prepare them for the MS-DOS portion of the MS-DOS/Windows exam for the A+ and Network+ certifications.

CIS 58

WINDOWS FOR COMPTIA

A+ CERTIFICATE EXAMS

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: Student should be familiar with any Windows environment, version 3.0

or higher. The student preparing for this exam should also enroll in CIS 56.

This course is designed to help the student prepare for the Windows portion of the DOS/Windows certification test for the CompTIA A+ certification exam. The A+ certification consists of two exams: (1) a basic knowledge of PC hardware; (2) familiarity with installing and maintaining DOS, Windows 3.x, and Windows 95/98. The hardware portion is covered in EL 54.

CIS 58A

PC OPERATING SYSTEM

A+ CERTIFICATION

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 101 or CIS 102 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course is designed to cover the subject matter required for the operating systems technologies component of CompTIA's A+ Certification. Topics to be discussed include operating system installation, configuration, upgrading, troubleshooting, and networking. This course may be taken for a maximum of 3 times.

CIS 58B

PC CORE HARDWARE

A+ CERTIFICATION

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 101 or CIS 102 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course is designed to cover the subject matter required for the core hardware component of CompTIA's A+ Certification. Topics to be discussed include computer hardware installation, construction, upgrading, troubleshooting, repair, networking, Internet connectivity and wireless technologies. This course may be taken for a maximum of 3 times.

CIS 70A

NETWORKING FUNDAMENTALS

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 101 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a survey course about the computer networking and telecommunications industry. Topics covered include the seven layers of the Open Systems Interconnection Model (OSI), network architectures, internetworking, and telecommunications.

CIS 70B

NETWORK+ CERTIFICATION 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 101 or equivalent with a grade of Pass or "C" or higher.
This course offers training in the knowledge and skills required by the CompTIA (The Computer Technology Industry Association) for its Network+ certification. Topics include network fundamentals, local area network implementation, basic systems administration, and various network protocols and devices.

CIS 70D

INTRODUCTION TO TCP/IP 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: CIS 70A or equivalent with a grade of Pass or "C" or higher.
This course offers an overview of the most widely-used networking architecture in the networking industry: Transport Control Protocol/Internet Protocol (TCP/IP). Students will learn the underlying applications, components and protocols of TCP/IP and its necessary link to the Internet, and how to identify TCP/IP layers, components and functions. Navigation tools, TCP/IP services and troubleshooting methodologies are also reviewed. Topics include usage of TCP/IP applications, structure of TCP/IP routing, TCP/IP addressing and subnetting, how TCP/IP addresses are discovered and used in computer networks, IP routing and router usage, and troubleshooting a TCP/IP network.

CIS 70E

ROUTER CONFIGURATIONS AND PROTOCOL 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: CIS 70A or equivalent with a grade of Pass or "C" or higher or appropriate work experience.
This is the second course of four on Cisco networking technologies. It covers the OSI reference model, routers and their use, router components, router start-up and set-up, configurations, and the Cisco Internetworking Operating Systems (IOS).

CIS 70F

ADVANCED SWITCHING AND ROUTING 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: CIS 70E or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.
This is the third in a series of courses that prepares students for certification as a Cisco Certified Network Associate (CCNA). This class covers LAN (Local Area Network) Switching, VLANs (Virtual Local Area Networks), LAN design, IGRP (Interior Gateway Routing Protocol), Access lists, and Novell IPX.

CIS 70G

WIDE AREA NETWORKS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: CIS 70E or equivalent with a grade of Pass or "C" or higher.
This is the fourth in a series of courses that prepare students for certification as a Cisco Certified Network Associate (CCNA). It covers Wide Area Network (WAN) design, Point-to-Point Protocol (PPP), Integrated Services Digital Network (ISDN), Frame Relay, and CCNA exam review.

CIS 70H

NETWORKING ANALYSIS AND DESIGN 2.5 UNITS

Class hours: 2.5 Lecture
Prerequisite: CIS 70F or equivalent with a grade of Pass or "C" or higher.
This course focuses on the design process for computer networking. Concepts and skills developed in previous courses in this series form the foundation for approaching the task of defining network requirements, writing specifications, designing, and implementing a computer network.

CIS 70J

CISCO CCNA CERTIFICATION EXAM REVIEW 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: CIS 70G or equivalent with a grade of Pass or "C" or higher.
This course is designed to enhance student readiness for the Cisco Certified Network Associate (CCNA) exam. It reviews all key concepts and skills required in the CCNA exam as well as exam question types and test-taking strategies.

CIS 70K

INTRODUCTION TO WIRELESS NETWORK 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: CIS 70A or equivalent with a grade of Pass or "C" or higher.
This is an introductory course on the fundamental concepts of wireless networking. It covers the technical foundation of wireless communications and various protocols used in the current wireless applications. Topics include Wireless Application Protocol (WAP), Bluetooth, cellular telephony, Wireless Local Area Networks (WLANs), satellite communications, Global Positioning System (GPS).

CIS 70L

NETWORK SECURITY FUNDAMENTALS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 70A or equivalent with a grade of Pass or "C" or higher.
This is an introductory course on fundamentals of network security. It provides a comprehensive overview of network security and covers communication security, infrastructure security, cryptography, operational. Organizational security, disaster recovery, business continuity, as well as computer forensics. The course content also maps to the Security+ certification exam by Computing Technology Industry Association (CompTIA).

CIS 75

SQL ADMINISTRATION AND IMPLEMENTATION 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 212 or equivalent with a grade of Pass or "C" or higher is strongly recommended.
This course provides students with the knowledge and skills required to install, configure, administer, trouble-shoot, and implement the Microsoft SQL server database management system.

CIS 80

PROGRAMMING IN ACCESS 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 155 and CIS 186 or equivalent with grades of Pass or "C" or higher are strongly recommended.
This course provides students with the knowledge and skills required to program Access applications using Visual Basic for Application. The students will design and create real-world business applications.

CIS 84

MICROSOFT INTERNET INFORMATION SERVER 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Strongly recommend CIS 212 or CIS 212B and CIS 121 or equivalent with grades of Pass or "C" or higher.
This course covers the support of the various features of Microsoft Internet Information Server (IIS). Students will learn how to install, configure, and implement the key components that comprise IIS. They will also have hands-on experience setting up a Web site. The course is intended for those who support or administer Microsoft Internet Information Server. The course uses a combination of lectures, demonstrations, discussions, online assignments, and hand-on labs. This course is compliant with current industry certification.

CIS 85

UNIX PRODUCTIVITY TOOLS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Recommendation: CIS 56 with a grade of Pass or "C" or higher is strongly recommended.
 This course is designed for students in computer science to introduce them to basic productivity tools that are available on the UNIX platform. These tools include the basic command-line and menu-driven utilities such as vi, emacs, mail and pine; the GUI (Graphical User Interface) tools such as GNUwrite and GNUMERIC; and the advanced, integrated productivity suites such as StarOffice, which will be discussed in detail. Other advanced tools such as the GIMP (GNU Image Manipulation Program) will be presented so that students will be able to use, configure and support these applications.

CIS 101

(CAN BUS 6)

INTRODUCTION TO COMPUTER INFORMATION SYSTEMS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
 This course provides the student with the essential knowledge required for a well-rounded understanding of the use of the computer as a tool to produce useful information in small and large work environments. The course allows the student to achieve an understanding of computer technology, computer hardware, computer software and how computers can be used to produce meaningful information. The student will solve applied problems in spreadsheet preparation and analysis using Microsoft EXCEL and in database programming using Access.

*Transfer Credit: CSU; UC**

*UC credit limits may apply. CIS 101 and 102 combined: maximum credit, one course.

CIS 102

INTRODUCTION TO MICROCOMPUTER HARDWARE AND APPLICATIONS SOFTWARE 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 This course instructs the students in the use of microcomputers within an organizational environment using the Microsoft Windows interface and current applications software. Software topics include file management, elementary word processing, applications in spreadsheet use, database management, and presentation graphics.

*Transfer Credit: CSU; UC**

*UC credit limits may apply: CIS 101 and 102 combined: maximum credit, one course.

CIS 103

COMPUTER PROGRAMMING LOGIC 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Recommendation: Concurrent enrollment in or completion of CIS 101 or CIS 102 or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in computer programming logic. The student will learn concepts applicable to all programming languages, including: identifiers, data types, arrays, control structures, algorithms, modular programming, generating reports, and computer memory concepts. The student will learn to use charts commonly used in business and information processing. Program logic will be developed using flowcharts and pseudocode. Programs will be written using a programming language. The student will be introduced to the following additional topics: graphical user interface design, object-oriented and event-driven programming, searching, sorting, and file processing concepts.

Transfer Credit: CSU; UC

CIS 105

USING MICROSOFT WINDOWS 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
 Recommendation: CIS 102 or equivalent with a grade of Pass or "C" or higher.

This course covers the use of Microsoft Windows. Currently available Windows Operating Systems will be explored, including Windows 95, 98, NT, Millennium Edition, and Windows 2000. Topics include file and application management, personalizing the system, using the productivity tools, connecting to the Internet, and exchanging data. Current topics of interest relating to Windows will also be discussed.

Transfer Credit: CSU

CIS 105B

MICROSOFT WINDOWS MOBILE 3.0 UNITS

Class hours: 3.0 Lecture/0.5 Laboratory
 This course offers technical training in the Microsoft Windows Mobile (WM) technology. Students will learn the technical background of the WM operating systems, various communication protocols used on the WM-based devices, and their applications. Troubleshooting techniques and software development tools will be discussed. This course is designed for students interested in the technical support of the WM operations in an enterprise environment. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CIS 120

WEB DESIGN WITH MICROSOFT FRONTPAGE 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
 Prerequisite: CIS 121 or equivalent with a grade of Pass or "C" or higher.

This course covers the features and capabilities of FrontPage. Students learn how to create Web pages with FrontPage. The Web designing projects provide a practical application of Web developments with a real world environment.

Transfer Credit: CSU

CIS 121

INTERNET FOR INFORMATION SYSTEM/INFORMATION TECHNOLOGY 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
 This course will cover the fundamental features of the Internet and represents a foundation class for Information Technology. Students will learn how to access and use the Internet. Topics covered will include electronic mail, File Transfer Protocols, Telnet, Search tools for various Internet resources, World Wide Web's, newsgroups, Listserv, BBS (Bulletin Board Service) and other resources. The Internet as a Wide Area Network will be reviewed.

Transfer Credit: CSU

CIS 125

JAVASCRIPT FOR PROGRAMMERS 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
 Prerequisite: CIS 205 and a knowledge in one programming language or equivalent with grades of Pass or "C" or higher.

This course covers the JavaScript programming language. Students learn how to enhance the Web pages to be interactive, intelligent, and exciting with JavaScript. The course projects provide a practical application of Web page developments with a real world environment. (This course is not open to students who have taken CIS 126.)

Transfer Credit: CSU

CIS 126

JAVASCRIPT FOR NONPROGRAMMERS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: CIS 205 and a knowledge in one programming language or equivalent with grades or Pass or "C" or higher.

This is a course in programming Web pages on the client-side using the JavaScript programming language. It is for beginning to intermediate level students who know how to create Web pages and now want to add interactivity to their Web pages. This course is designed for the students who are not familiar with programming language. Programming

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concepts and terminology will be taught using the JavaScript programming language. (This course is not open to students with credit in CIS 125).

Transfer Credit: CSU

CIS 140

QUERY/400

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: CIS 141 or equivalent with a grade of Pass or "C" or higher.

This course will cover the fundamental operation and functions of data manipulation on the IBM AS/400. Query/400 will be used to select, arrange, and analyze information (data) stored in one or more databases.

Transfer Credit: CSU

CIS 141

I SERIES 400 OPERATIONS

3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 101 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to the operations of the IBM iSeries 400 Computer System using the OS/400 operating systems. The course includes the following topics: navigating around the system, command structure, message handling, Operation Navigator, trouble shooting, system security, job scheduling, backup/restore, work management, library management, object management, control management, and control language programming.

Transfer Credit: CSU

CIS 141A

OPERATIONS NAVIGATOR

I SERIES (AS/400)

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: CIS 141 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course will introduce the student to operating an iSeries 400 (AS/400) through the graphical interface Operations Navigator (ON). Operations Navigator will be used to configure, monitor, and manage the iSeries 400 (AS/400). Topics include basic operations, printing, job management, device configuration, security, database management, file systems, backup, and user/groups. This course is primarily for Information Technology professionals with some background in the AS/400 operations.

Transfer Credit: CSU

CIS 142A

AS/400 OPERATIONS PART I

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: CIS 101 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to the operations of the IBM AS/400 Computer System using the OS/400 operating system. The course includes the following topics: system security, job scheduling, job management, back/restore, work management, library management, object management, hardware architecture and configuration, software, device management, and control language.

Transfer Credit: CSU

CIS 142B

AS/400 OPERATIONS/ FACILITIES - PART 2

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: CIS 101 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to the IBM AS/400 Computer System OS/400 database and file structure. This course will use IBM AS/400's Application Development Tools. The course includes the following topics: Source Editor Utility (SEU), Data File Utility (DFU), Program Development Manager (PDM), Screen Design Aid (SDA), Data Description Specifications, Data file structure and design, physical source file, Library, object, member structure, logical files, display files, menus and simple control language program.

Transfer Credit: CSU

CIS 151

MICROSOFT EXCEL FOR INFORMATION SYSTEMS/ INFORMATION TECHNOLOGY

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

This course is a foundation class for Information Technology. The fundamentals of building worksheets include: creating worksheets, formatting, functions, formulas, macros, data tables, analysis tools, templates, Wizards, and the creation of charts. Techniques to deal with multiple worksheets and large worksheets are covered. The database functions of EXCEL will include sorting, filtering, queries, macros, and record retrieval. This course covers the topics required in industry certifications. Hands-on exercises are used to reinforce the function of EXCEL. This course is not open to students who have taken both CIS 54A and CIS 54B.

Transfer Credit: CSU

CIS 152

PROGRAMMING IN EXCEL IN VBA

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 151 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course teaches students to create professional Excel applications using the Visual

Basic for Applications (VBA) programming language. Students will learn to automate repetitive tasks, protect spreadsheets from user errors, and create user interfaces. Topics covered will include how to write program procedures using the sequence, selection, and repetition programming structures, as well as how to create and implement dialog boxes, lists, and option/check box controls in Excel. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

CIS 155

MICROSOFT ACCESS

3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 102 or equivalent with a grade of Pass or "C" or higher.

This is a foundation course in database management using Microsoft Access. It covers relational database concepts and design, techniques for building a database using queries, forms, reports, and expressions. Topic also include multiple-table queries and reports and the user interface to a database. This course covers the topics in the Microsoft Office User Specialist (MOUS) certifications.

Transfer Credit: CSU

CIS 155A

MICROSOFT ACCESS

CORE LEVEL

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Course introduces the student to database function on IBM compatible personal computers using Microsoft Access for Windows software. Topics include Core Level MOUS Skills for Microsoft Access functions such as creating a database table; creating relationships between database tables, creating forms, reports, mailing labels, and charts; using Database Wizards and OfficeLinks. This course prepares the student for Microsoft Office User (MOUS) Access Core Certification.

Transfer Credit: CSU

CIS 155B

MICROSOFT ACCESS

EXPERT LEVEL

1.5 UNITS

Class hours: 1.5 Lecture/0.9 Laboratory

Prerequisite: CIS 155A or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course emphasizes advanced database functions on the IBM compatible personal computers using Microsoft Access for Windows software. Topics include Expert Level MOUS Skills for Microsoft Access functions such as building and modifying advanced tables, building and modifying forms, refining queries, using advanced report features, defining relationships, and using

Access tools. This course prepares the student for Microsoft Office User (MOUS) Access Expert Certification, which is in the process of being prepared by Microsoft Office.
Transfer Credit: CSU

CIS 160 **WEB PAGE DEVELOPMENT 3.5 UNITS**

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 205
This course provides the knowledge, skills, and hands-on experience needed to create multi-media Web pages. Students will create Web pages with links, graphics, tables, frames, and form application, as well as dimensions of time, audio, video, motion, and interactivity to Web pages using a variety of authoring tools. Upon completing this course, students will be ready to plan, build, promote, and maintain a professional Web site, which includes selecting a Web host and uploading the site to a Web server.

Transfer Credit: CSU

CIS 163 **DYNAMIC AND INTERACTIVE** **WEB PAGE SCRIPTING 3.5 UNITS**

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 205 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.
This hands-on course will explore the latest Web development technologies to create dynamic and interactive Web pages. Topics to be discussed include validating pages to current Web standards, controlling the appearance of the content on Web page accessibility, and enhancing the interactivity and visual appeal of Web pages.

Transfer Credit: CSU

CIS 168C **SPECIAL TOPICS IN** **NETWORKING 3.0 UNITS**

Class hours: 3.0 Lecture
This course is designed to provide training on the application of networking solutions to various industry specific situations. Each semester the course will focus on a different aspect of networking. Examples include but are not limited, to automotive, aviation, entertainment industry, health care, home automation, industrial control, IP version 6, and recent developments in Local Area Networking (LAN) and Wide Area Networking (WAN). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CIS 169A **SPECIAL TOPICS IN SECURITY 1.0 UNIT**

Class hours: 1.0 Lecture/1.0 Laboratory
This course is designed to provide basic information on the latest technological developments in the information security field. Students will learn about the latest security issues in the enterprise network as well as various tactics and tools to counter those security threats. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CIS 169D **SPECIAL TOPICS IN SECURITY 3.5 UNITS**

Class hours: 3.0 Lecture/2.0 Laboratory
This course is designed to provide in-depth training on the latest software and hardware technology used in the enterprise network security field. Students will learn about and research the latest security threats in an organization. They will also explore various tactics and tools to counter those security threats and implement them in the enterprise network. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CIS 171 **VISUAL BASIC PROGRAMMING 3.0 UNITS**

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 103 or equivalent with a grade of Pass or "C" or higher.
This is a course in designing and programming of the MS-Windows graphical user interface. Topics include standard interface design, event processing and control focus, data exchange, debugging and error handling.

Transfer Credit: CSU; UC

CIS 175 **RPG PROGRAMMING 3.0 UNITS**

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: CIS 103 or equivalent with a grade of Pass or "C" or higher.
This is a basic course in applying the principles of data processing to standard business applications. The Report Program Generator language will be used, with emphasis on report preparation and file organization. The class introduces the student to CODE/400, a client-server pc-based application development environment; Operations Navigator, a graphical user interface used to create, change and maintain iSeries/400 objects; and also to the Integrated Language Environment (ILE).

Transfer Credit: CSU

CIS 176 **COBOL PROGRAMMING 3.0 UNITS**

Class hours: 3.0 Lecture/1.0 Laboratory
Prerequisite: CIS 103 or equivalent with a grade of Pass or "C" or higher.
This is an introductory course in computer programming, utilizing the most frequently used procedural language for business applications COBOL. COBOL is a "near English" language which provides for thorough documentation of the program, and enables programmers to program on all major manufacturers' equipment with minimum of adjustment. The purpose, structure, content and specific rules of the language will be considered in detail. Business applications will be analyzed, flowcharted, coded and debugged using the computer. Structured programming concepts will be introduced. COBOL lab problems will be assigned.

Transfer Credit: CSU

CIS 178 (CAN CSCI 4) **PROGRAMMING IN** **FORTRAN 3.0 UNITS**

Class hours: 2.0 Lecture/3.0 Laboratory
Prerequisite: MATH 140 or equivalent with a grade of Pass or "C" or higher and satisfactory score on the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This is an introductory level programming course using the Fortran programming language. Emphasis is placed on engineering and mathematics applications. Topics include input/output techniques, declaration statements, data types, branching, looping, arrays, subroutines, functions, passing parameters, sorting and searching.

Transfer Credit: CSU; UC

CIS 180 **PROGRAMMING IN C/C++ 3.0 UNITS**

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: CIS 103 or equivalent with a grade of Pass or "C" or higher.
This course introduces C and C++ programming language structures. Topics include data types, operators, program control flow, arrays, functions, pointers, character strings, structures and pointers. This course also includes an introduction to object-oriented programming design. (This course is not open to students who have taken BCIS 95.)

Transfer Credit: CSU; UC

CIS 182 **JAVA PROGRAMMING 3.5 UNITS**

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: Strongly recommend CIS 103 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Announcement of Courses

This course covers the fundamentals of the Java programming language used to develop Web-delivered Internet and platform-independent enterprise applications. Features of Java covered in this course include basic Java programming constructs, object oriented programming, and the graphical user interface (GUI).

Transfer Credit: CSU; UC

CIS 186

VISUAL BASIC.NET PROGRAMMING

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: CIS 103 or equivalent with a grade of Credit or "C" or higher or knowledge of one programming language.

This course provides students with the knowledge and skills needed to develop Microsoft.NET-based applications by using Visual Basic.NET. This course focuses on Graphical User Interface (GUI) components.

Transfer Credit: CSU

CIS 189A

SPECIAL TOPICS IN SOFTWARE DEVELOPMENT

1.0 UNIT

Class hours: 1.0 Lecture

This course introduces students to new software application designs in the information technology industry. The focus of the course includes programming language structure, programming implementation, and application design. Students may take a combination of CIS 189A, CIS 189B and/or CIS 189C no more than a total of 4 times.

Transfer Credit: CSU, UC credit determined after admission

CIS 189B

SPECIAL TOPICS IN SOFTWARE DEVELOPMENT

2.0 UNITS

Class hours: 2.0 Lecture

This course introduces students to new software application designs in the information technology industry. The focus of the course includes programming language structure, programming implementation, and application design. Students may take a combination of CIS 189A, CIS 189B, and/or CIS 189C no more than a total of 4 times.

Transfer Credit: CSU, UC credit determined after admission

CIS 189C

SPECIAL TOPICS IN SOFTWARE DEVELOPMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course introduces students to new software application designs in the information technology industry. The focus of the course includes programming language

structure, programming implementation, and application design. Students may take a combination of CIS 189A, CIS 189B, and/or CIS 189C no more than a total of 4 times.

Transfer Credit: CSU, UC credit determined after admission

CIS 189D

SPECIAL TOPICS IN SOFTWARE DEVELOPMENT

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 103 or equivalent with a grade of Pass or "C" or higher.

This is a software development course designed to acquaint the student with new languages in the information technology industry. The course will focus on programming language structure, programming implementation, and application design. This course may be taken a maximum of 2 times.

Transfer Credit: CSU, UC credit determined after admission

CIS 201

SYSTEMS ANALYSIS AND DESIGN

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

This course is a detailed study of business systems analysis and design theory and application techniques. Includes interviewing techniques, systems functions, surveys, diagramming, analysis, design, and testing. The systems development life cycle, structured design and object-oriented design methodologies will be studied. Attention is given to the role of the systems analyst within the business environment.

Transfer Credit: CSU

CIS 202A

PROJECT MANAGEMENT FOR INFORMATION TECHNOLOGY

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 102 and CIS 105 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

This course covers the principles of project management as it applies to the field of Information Technology (IT). Students learn how to plan, execute, and control complex IT systems projects using Microsoft Project. Information technology projects are used to practice and gain "real world" exposure to the complexities and challenges of managing an IT systems development project.

Transfer Credit: CSU

CIS 202B

MICROSOFT PROJECT

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 102 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This hands-on course will show the student how to create, track, and report project plans using Microsoft Project. Students will learn how to add task dependencies, assign resources, track costs, use different project views, and share project information with others. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

CIS 205

PROGRAMMING IN HTML FOR THE WORLD WIDE WEB

1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: CIS 103 or CIS 121 or equivalent with a grade of Pass or "C" or higher.

This course covers the fundamentals of the HTML (Hypertext Markup Language) language used to construct pages and documents on the World Wide Web. Features of HTML covered in this course include basic page structure, formatting, linking, handling images, handling color, tables, frames, forms, external media, plug-ins, linked windows, dynamic documents, and image maps.

Transfer Credit: CSU

CIS 206

XML WEB APPLICATION DEVELOPMENT

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 205 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course covers the purpose and scope of eXtensible Markup Language (XML). The course will cover XML-related technologies and standards to develop dynamic, data-driven Web applications. Topics include XML structure and syntax, eXtensible Hypertext Markup Language (XHTML), Document Type Definition (DTD) and schemas validation, Cascading Style Sheet (CSS), XML as linking and searching mechanism, eXtensible Style Sheet (XSL) for formatting-object documents, Document Object Model (DOM), and Simple API for XML (SAX) for parsing and transforming XML.

Transfer Credit: CSU

CIS 207

DATABASE DESIGN AND SQL

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 105 or equivalent with a grade of Pass or "C" or higher.

Announcement of Courses

This course covers the concepts of designing, creating, and accessing Relational Data Base Management Systems using Structured Query Language (SQL). The database programming is based on Microsoft SQL.

Transfer Credit: CSU

CIS 208A

ORACLE SQL AND PL/SQL 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 103 and CIS 155 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

This course covers the concepts of Structured Query Language (SQL) in the SQL *Plus environment, and Oracle's Procedural Language/Structured Query Language (PL/SQL) programming languages for working with relational databases. The students will learn the creation of database objects and the storage, retrieval, and manipulation of data using the Oracle database management system.

Transfer Credit: CSU

CIS 208B

ORACLE DATABASE APPLICATIONS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: CIS 208A or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course covers the concepts needed to develop database applications using the Oracle database and application development utilities. Students will learn how to create and modify database tables and queries and how to design user interfaces, reports, forms, and graphical charts for database applications.

Transfer Credit: CSU

CIS 209

ORACLE DATABASE ADMINISTRATION AND IMPLEMENTATION 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 212 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides a hands-on knowledge of planning, configuring, and managing an Oracle database system. The student will learn how to configure a server, manage system resources, create a database, manage users, provide backup and recovery practices, and develop a security model.

Transfer Credit: CSU

CIS 211A

SPECIAL TOPICS IN DATABASE 1.0 UNIT

Class hours: 1.0 Lecture

This course introduces students to recent advancements of database systems in information technology. The focus of this

course will be database administration, programming, and security. The specific focus of a particular offering will be decided by the course instructor and announced in the Schedule of Classes. Students may take a combination of CIS 211A, CIS 211B, and/or CIS 211C no more than a total of 4 times.

Transfer Credit: CSU

CIS 211B

SPECIAL TOPICS IN DATABASE 2.0 UNITS

Class hours: 2.0 Lecture

This course introduces students to recent advancements of database systems in information technology. The focus of this course will be database administration, programming, and security. The specific focus of a particular offering will be decided by the course instructor and announced in the Schedule of Classes. Students may take a combination of CIS 211A, CIS 211B, and/or CIS 211C no more than a total of 4 times.

Transfer Credit: CSU

CIS 211C

SPECIAL TOPICS IN DATABASE 3.0 UNITS

Class hours: 3.0 Lecture

This course introduces students to recent advancements of database systems in information technology. The focus of this course will be database administration, programming, and security. The specific focus of a particular offering will be decided by the course instructor and announced in the Schedule of Classes. Students may take a combination of CIS 211A, CIS 211B, and/or CIS 211C no more than a total of 4 times.

Transfer Credit: CSU

CIS 212

INTRODUCTION TO MICROSOFT WINDOWS ADMINISTRATION 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 58A or equivalent with a grade of Pass or "C" or higher

This is a course for system administrators who are responsible for installing and administering networks based on the current Windows operating systems. Students will learn how to install, configure, and optimize the current Windows operating systems, including network inter-operability and troubleshooting.

Transfer Credit: CSU

CIS 212A

MICROSOFT WINDOWS 2000 PROFESSIONAL 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: CIS 105 or equivalent with a grade of Pass or "C" or higher.

This is a course for system administrators who are responsible for installing and administering networks based on Windows 2000. Students will learn to install, configure, and optimize Windows 2000, including network inter-operability and trouble shooting.

Transfer Credit: CSU

CIS 212B

MICROSOFT WINDOWS 2000 SERVER 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: CIS 212A or equivalent with a grade of Pass or "C" or higher.

This is a course for system administrators who are responsible for installing and administering networks involving Microsoft Windows 2000 Servers. Topics include installing and configuring Windows 2000 Server, managing files, printing, Web and Terminal services, connecting clients, creating and managing user accounts, managing access to resources on the network, monitoring and optimizing server performance, implementing security and disaster protection and troubleshooting various server related issues. This course also prepares students for the Microsoft certification exam 70-215 – Installing, Configuring, and Administering Microsoft Windows 2000 Server, which is one of the core requirements for the Microsoft Certified systems Administrator (MCSA) and Microsoft Certified Systems Engineer (MCSE) certifications.

Transfer Credit: CSU

CIS 213A

MICROSOFT WINDOWS ACTIVE DIRECTORY SERVICES 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 212 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides an overview of Microsoft Windows Active Directory Services, used in the latest Microsoft network operating systems. It helps students develop knowledge and skills to install, configure, and administer Windows 2000 Active Directory Services, implement Group Policy, and perform the Group Policy-related tasks that are required to centrally manage users and computers. Students learn to set up and administer domain user accounts and groups, delegate administrative control of Active Directory objects in Windows 2000, create and manage trees and forests in a Windows 2000 network, administer forest-wide resources, manage Active Directory

Announcement of Courses

replication and operation master, manage and restore the Active Directory database, and implement an Active Directory infrastructure. The course also prepares students for the Microsoft Certified Professional (MCP) Exam 70-217- a core requirement on the Windows 2000 Microsoft Certified Systems Engineer (MCSE) track.

Transfer Credit: CSU

CIS 213B IMPLEMENTING A WINDOWS 2000 NETWORK INFRASTRUCTURE 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: CIS 212 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides instruction in implementing and administering a Windows® 2000 network infrastructure. Topics include installing, configuring, managing, monitoring, and troubleshooting Domain Name System (DNS), Windows Internet Naming Service (WINS), Internet Protocol (IP) routing, Network Address Translation (NAT) and Certificate Services. This course covers the knowledge and skills needed for the Microsoft® 2000 Certified Professional (MCP) certification examination 70-216, Implementing and Administering a Microsoft Windows® 2000 Network Infrastructure, which is a core component for the Microsoft® Certified Systems Engineer (MCSE).

Transfer Credit: CSU

CIS 213C DESIGNING A MICROSOFT WINDOWS DIRECTORY SERVICE INFRASTRUCTURE 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: CIS 212 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides student with the knowledge and skills necessary to design a Microsoft® Windows® 2000 directory services infrastructure in an enterprise network. Strategies are presented to assist the student in identifying the information technology needs of an organization, and then designing an Active Directory™ structure that meets those needs.

Transfer Credit: CSU

CIS 213D DESIGNING A MS WINDOWS 2000 NETWORK INFRASTRUCTURE 2.5 UNITS

Class hours: 2.5 Lecture

Prerequisite: CIS 212 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides students with the information and skills needed to create a networking services infrastructure design that supports the required network applications. It covers Microsoft® Windows® 2000 network solutions, such as Dynamic Host Configuration Protocol (DHCP), Open Shortest Path First (OSPF), Routing Information Protocol (RIP), and Internet Group Management Protocol (IGMP).

Transfer Credit: CSU

CIS 213E MANAGING WINDOWS 2000 NETWORK ENVIRONMENT 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: CIS 212 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course is to provide the knowledge required by System Administrators, Network Administrators, and Information Technology (IT) professionals who implement, manage and troubleshoot existing network and server environments based on the Microsoft Windows® 2000 platform. These skills are generally required in medium to large size organizations via Local Areas Networks (LANs) and the Internet or Internets. Additionally, this course provides the skills and knowledge that Microsoft Certified Systems Administrator (MCSA) certification candidates need to prepare for the Microsoft Certified Professional (MCP) Exam 70-218: Managing a Microsoft Windows 2000 Network Environment, a core component for the Microsoft® Certified Systems Administrator (MCSA) certification.

Transfer Credit: CSU

CIS 213F MICROSOFT WINDOWS 2003 SERVER ADMINISTRATION 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

This course provide the knowledge required by system administrators, network administrators, and IT (Information Technology) professionals who implement, manage and troubleshoot network and server environments based on the Microsoft Windows® .Net platform. It offers up-to-date information on core system administration topics such as Active Directory services, security, disaster planning and recover, and interoperability with NetWare and Unix. It includes information on Microsoft Internet Security and Acceleration (ISA) Server and scripting. Additionally, this course prepares students for the Microsoft Certified Professional (MCP) Exam 70-275, a core requirement on both the Microsoft Certified System Engineer (MCSE) and Microsoft Certified System Administrator (MCSA) tracks.

Transfer Credit: CSU

CIS 213G MICROSOFT EXCHANGE SERVER ADMINISTRATION 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 212B or equivalent with a grade of Pass or "C" or higher. This course is to provide the knowledge required by System Administrators, Network Administrators, and IT (Information Technology) professionals who implement, manage and troubleshoot the Microsoft Exchange server. These skills are generally required in medium to very large computing environments that typically have multiple physical locations, mixed client connection protocols, and Internet messaging connectivity. In addition, this course is part of the Microsoft Certified Systems Engineer (MCSE) certification program series.

Transfer Credit: CSU

CIS 213H MICROSOFT WINDOWS SECURITY 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 212B or equivalent with a grade of Pass or "C" or higher.

This course will provide training in tools and procedures recommended by the security industries for the System Administrators, Network Administrators, and Information Technology (IT) professionals who design, implement, and manage the Microsoft windows network environment.

Transfer Credit: CSU

CIS 213I IMPLEMENTING A WINDOWS 2003 NETWORK INFRASTRUCTURE 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 70A or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides instruction in planning, implementing, and administering a Windows 2003 network infrastructure. Topics include Domain Name System (DNS), Internet Protocol (IP) routing, Network Address Translation (NAT), and Certificate Services. This course covers the knowledge and skills needed for the Microsoft Certified Professional (MCP) certification examinations: Implementing, Managing and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (70-291) and Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (70-293), which are part of the core requirements for the Microsoft Certified Systems Engineer (MCSE) certification.

Transfer Credit: CSU

CIS 213J
IMPLEMENTING A
MICROSOFT WINDOWS
2003 ACTIVE DIRECTORY 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Recommendation: CIS 70A or equivalent with a grade of Pass or "C" or higher.
 This course provides training on the knowledge and skills necessary to plan, install, manage, and troubleshoot Windows Server 2003 Active Directory. It also prepares students for the Microsoft Certified Professional examination 70-294: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure, which is part of the core component for the Microsoft Certified Systems Engineer (MCSE) certification.
Transfer Credit: CSU

CIS 213K
DESIGNING WINDOWS ACTIVE
DIRECTORY AND NETWORK
INFRASTRUCTURE 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 This course will help students develop skills and knowledge necessary to design an organization's active directory and network infrastructure. In addition, this course will prepare students for the Microsoft® Certified Systems Engineer (MCSE) certification.
Transfer Credit: CSU

CIS 214
UNIX 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Recommendation: Knowledge of one operating system.
 This course is a comprehensive study of the Unix operating system and its administration. Topics include Unix commands, file manipulation and maintenance, user management, shell programming, configurations, back-up, security, and networking.
Transfer Credit: CSU

CIS 221
ADVANCED VISUAL BASIC 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: CIS 171 or equivalent with a grade of Pass or "C" or higher.
 This course familiarizes the students with client/server database programming, OLE (Object Linking and Embedding), DDE (Dynamic Data Exchange), API (Application Programming Interface), ActiveX controls, multimedia, and object-oriented programming design. The students develop practical business applications.
Transfer Credit: CSU

CIS 221A
OBJECT-ORIENTED
PROGRAMMING IN VB.NET 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: CIS 186 or equivalent with a grade of Pass or "C" or higher.
 This course provides the students with the knowledge and skills required to create and use .NET objects and Windows forms applications. This course will cover writing objects, events, properties, callbacks, inheritance, interfaces, polymorphism .NET assemblies, multithreading and Internet communications,
Transfer Credit: CSU

CIS 221B
DATABASE AND WEB
PROGRAMMING IN VB.NET 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: CIS 186 or equivalent with a grade of Pass or "C" or higher.
 This course will provide students the skills to build database applications and web services using VB.NET.
Transfer Credit: CSU

CIS 222
ADVANCED RPG
PROGRAMMING 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: CIS 175 or equivalent with a grade of Pass or "C" or higher.
 This is a second course in the use of the RPG programming language in which emphasis is placed on using the more advanced features of the language. Students are introduced to modular programming, static and dynamic binding, and the use of service programs in the Integrated Language Environment (ILE). Students are also introduced to coding using IBM's CODE/400, a client-server pc-based application development environment. Other topics include Operations Navigator, a Graphical User Interface (GUI), used to create, change, and maintain iSeries/400 objects and traditional iSeries/400 application development tools such as Source Entry Utility (SEU), Screen Design Aid (SDA), and Data File Utility (DFU). The emphasis is on the creation of interactive programs versus batch programs. Advanced topics include the use of subfiles for interactive programs and an introduction to SQL's Data Definition Language (DDL) and Data Manipulation Language (DML). Programming is done both on a stand-alone pc-compatible workstation and on an iSeries midrange computer.
Transfer Credit: CSU

CIS 223
VISUALAGE RPG
PROGRAMMING 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: CIS 175 or equivalent with a grade of Pass or "C" or higher.
 This is a second course in the use of the RPG programming language. Students are introduced to modular programming in procedural and event-driven programs. They are also introduced to static and dynamic binding, and the use of service programs in the Integrated Language Environment (ILE) and dynamic link libraries (DLL's) for pc-based standalone applications. VisualAge RPG is part of a suite of application development tools called WebSphere Development Tools/400.
Transfer Credit: CSU

CIS 223B
BUILDING ISERIES/400 WEB
APPLICATIONS WITH ILE RPG 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
 Prerequisite: CIS 175 and CIS 205 or equivalent with grades of Pass or "C" or higher.
 This is a course on designing web applications on an IBM (International Business Machines) iSeries/400 midrange computer using knowledge of HTML (Hyper Text Markup Language) and ILE RPG (Integrated Language Environment Report Program Generator). The course topics include configuring the HTTP (Hyper Text Transfer Protocol) server on the iSeries/400 and declaring HTTP server instances, JavaScript, TCP/IP (Transport Control Protocol/Internet Protocol), the iSeries/400 IFS (Integrated File System) and the use of API's (Application Program Interfaces). The language RPG is used to create CGI (Common Gateway Interface) programs that "web enable" existing RPG programs that produce output to terminal screens or spooled files for later printing.
Transfer Credit: CSU

CIS 224
ADVANCED COBOL
PROGRAMMING 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
 Prerequisite: CIS 176 or equivalent with a grade of Pass or "C" or higher.
 This course is designed to extend both the students' skills in computer programming and their knowledge of the most frequently used language in business data processing. The emphasis will be on file processing and the advanced features of a high level implementation of COBOL including: COBOL Sort, Report Writer, Subroutine and Subprogram Linkage, COBOL Library, etc.
Transfer Credit: CSU

CIS 230

ASSEMBLY PROGRAMMING FOR MICROCOMPUTER 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: CIS 177 (Pascal) and CIS 180 ("C" Language), or CIS 178 (Fortran) or equivalent with grades of Pass or "C" or higher.

This course is a detailed coverage of microcomputer architecture and instruction sets and how to use them to design and write assembly language programs. Topics will cover principles of assembly programming including functions, stacks, recursion, macros, input/output devices, precision arithmetic and logic design.

Transfer Credit: CSU; UC

CIS 240

ISERIES 400 CONTROL LANGUAGE PROGRAMMING 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CIS 141 or equivalent with a grade of Pass or "C" or higher is strongly recommended.

This course covers the fundamental concepts required to develop control language programs for use on an IBM iSeries 400. Topics include: structured programming, program control, error handling, OS/400 concepts, and when to use CL programs.

Transfer Credit: CSU

CIS 271

COMPUTER AND INFORMATION SCIENCES OCCUPATIONAL WORK EXPERIENCE 1.0 UNIT

Class hours: 1 hr/wk coordination class
Corequisite: Enrollment in 7 or more units, including Computer and Information Sciences Occupational Work Experience or at least one other course during summer, in a computer-related major. One unit of Computer and Information Sciences Occupational Work Experience requires 60 non-paid hours of work or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First-semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Second-, third-, and fourth-semester students must

secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This may be taken for a maximum of 3 times.

Transfer Credit: CSU

CIS 272

COMPUTER AND INFORMATION SCIENCE OCCUPATIONAL WORK EXPERIENCE 2.0 UNITS

Class hours: 1 hr/wk coordination class
Corequisite: Enrollment in 7 or more units,

including Computer and Information Science Occupational Work Experience, or at least one other course during summer, in a computer-related major. Two units of Computer and Information Sciences Occupational Work Experience require 120 non-paid hours of work or 150 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First-semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Second-, third-, and fourth-semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This may be taken for a maximum of 3 times.

Transfer Credit: CSU

CIS 273

COMPUTER AND INFORMATION SCIENCE OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: 1 hour/week coordination class.
Corequisite: Enrollment in 7 or more units,

including Computer and Information Sciences Occupational Work Experience, or at least one other course during summer, in a computer-related major. Three units of Computer and Information Sciences Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding

specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times.

Transfer Credit: CSU

CIS 274

COMPUTER AND INFORMATION SCIENCE OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: 1 hour/week coordination class.
Corequisite: Enrollment in 7 or more units,

including Computer and Information Sciences Occupational Work Experience, or at least one other course during summer, in a computer-related major. Four units of Computer and Information Sciences Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times.

Transfer Credit: CSU

CIS 280

OBJECT-ORIENTED PROGRAMMING C++

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Strongly recommend CIS 180 or equivalent with a grade of Pass or "C" or higher.

This is a course in Object-Oriented Programming (OOP) using the C++ programming language. Topics presented include abstract data types, objects and classes, operator overloading, inheritance, constructors and destructors, pointers, member functions, virtual functions, the theory of object-oriented programming, and the techniques of object-oriented design.

Transfer Credit: CSU; UC

CIS 281

WINDOWS PROGRAMMING WITH VISUAL C#.NET

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: CIS 180 or CIS 182 or equivalent with a grade of Pass or "C" or higher.

This course provides students with the knowledge and skills needed to develop C# applications for the Microsoft.NET platform. This course focuses on C# program structure, language syntax, and Windows client application.

Transfer Credit: CSU

CIS 282

ADVANCED JAVA PROGRAMMING

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: Strongly recommend CIS 182 or equivalent with a grade of Pass or "C" or higher.

This course covers the Java Abstract Window Toolkit (AWT). Topics will include graphical user interface, graphics, multimedia, system management, networking, security, and database connectivity.

Transfer Credit: CSU

CIS 283A

JAVA SERVER PAGES (JSP) PROGRAMMING

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 125 or CIS 182 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience

This course introduces the student to Java Server pages (JSP) programming for Web Server. Students learn to write scripts in web pages that are processed at the server to handle client requests, process forms, mine data and connect to other services

Transfer Credit: CSU

CIS 284

CGI AND PERL PROGRAMMING

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: CIS 180 and CIS 205 or equivalent with grades of Pass or "C" or higher.

This course covers the Common Gateway Interface (CGI) and Perl programming. Students learn how CGI works and how to write CGI Perl scripts to generate dynamic Web pages, process forms, search information, and provide informative responses. This course is not open to students who have already taken BCIS 94.

Transfer Credit: CSU

CIS 285

ACTIVE SERVER PAGES PROGRAMMING

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 171 or equivalent with a grade of Pass or "C" or higher.

This course covers the different approaches for creating server-side scripts using Active Server Pages (ASP). The student will learn how to build, implement and execute scripts which create fully-functional Web applications.

Transfer Credit: CSU

CIS 285A

ASP.NET PROGRAMMING

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: CIS 186 and CIS 205 or equivalent with a grade of Pass or "C" or higher.

This course covers the different approaches for creating server-side scripts using Active Server Pages.NET (ASP). The student will learn how to build, implement and execute scripts which create fully-functional web applications.

Transfer Credit: CSU

CIS 292

DATA STRUCTURES

3.5 UNITS

Class hours: 3.0 Lecture

Prerequisite: CIS 182 or CIS 280 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course is designed for students in computer science to cover elementary data structures and advanced programming techniques using a modern, object-oriented language. Topics include arrays, stacks, queues, linked lists, trees, recursion, sorting, searching, and advanced applications.

Transfer Credit: CSU; UC

CIS 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department.

With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CIS 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

COSMETOLOGY

(Technology Division)

COS 1 (Not Degree Applicable)

COSMETOLOGY SALON PREPARATION

1.0 UNIT

Class hours: 3.1 Laboratory

Prerequisite: COS 50 or COS 60A and COS 60B or equivalent with grades of Pass or "C" or higher.

This course is designed to permit the student to complete 1600 hours necessary to take the State Board of Cosmetology examination. It provides an opportunity for the student to continue developing manipulative skills in hair styling, hair coloring, permanent waving, chemical straightening, scalp treatments, facials, waxing, manicuring, pedicures, and thermal styling. This course may be taken a maximum of 4 times.

COS 1L (Not Degree Applicable)

COSMETOLOGY SKILLS

DEVELOPMENT LAB

0.5 UNIT

Class hours: 1.7 Laboratory

Prerequisite: COS 50C, COS 54, COS 60B, COS 70A, or COS 71A with a grade of Pass or "C" or higher.

Corequisite: Concurrent enrollment in any Cosmetology course

This lab course is designed to permit the student to complete 1600 hours necessary to take the State Board of Cosmetology examination. It provides an opportunity for the student to continue developing manipulative skills in hair styling, haircoloring, permanent waving, chemical straightening, scalp treatments, facials, waxing, manicuring, pedicures and thermal styling.

COS 25 (Not Degree Applicable)

INTRODUCTION TO

COSMETOLOGY CAREERS

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: READ 42 or ENGL 15 with a grade of Pass or "C" or higher, or the equivalent.

This is an introductory course providing an overview of cosmetology careers as a cosmetologist, esthetician, or manicurist. The emphasis will be understanding the requirements to achieve a cosmetology license. Students will be introduced to technical vocabulary, demonstration of hair design, make-up, chemicals, manicuring, and hands-on applications. An overview of the program and professions will be included. These course hours are not counted toward State Board Certification.

COS 50A

INTRODUCTORY

COSMETOLOGY I

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It is designed to acquaint students with and to develop their ability to perform the basic skills in hairstyling, hairsculpting, permanent waving, and hair color. Emphasis will be placed on the Bureau of Barbering and Cosmetology Rules and Regulations, and the Cosmetology Act, as well as health, safety, sanitation, anatomy, and chemistry as they relate to the cosmetology profession.

COS 50B

INTRODUCTORY

COSMETOLOGY II

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 50A or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It is designed to acquaint the students with and to develop their ability to perform the basic skills in haircoloring, permanent waving, skin care, manicuring and pedicuring. Emphasis will be placed on the Cosmetology Act, State Board Rules and Regulations, as well as health, safety, sanitation, anatomy, and chemistry as they relate to the cosmetology profession.

COS 50C

INTRODUCTORY

COSMETOLOGY III

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 50B or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It is designed to acquaint the students with and to develop their ability to perform the basic skills in hair design, hairsculpting, permanent waving, and people skills. Emphasis will be placed on the Cosmetology Act, State Board Rules and Regulations, as well as safety, nail tips and wraps, sanitation, and chemistry as they relate to cosmetology profession.

COS 51A

INTERMEDIATE

COSMETOLOGY I

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 50C, or COS 60B, COS 70A, or COS 71B with a grade of Pass or "C" or higher.

This is an intermediate course in theory as it pertains to cosmetology. Students continue to develop manipulative skills in makeup, electric facials, facial waxing, arching, haircoloring, hair lighteners, color weaves, chemical restructuring, soft perm and conditioning to gain knowledge of trichology, anatomy, skin care, nail care, chemistry, health and safety as they relate to cosmetology. Emphasis is placed on professionalism and client relationships.

COS 51B

INTERMEDIATE

COSMETOLOGY II

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 51A or equivalent with a grade of Pass or "C" or higher.

This is an intermediate course in theory as it pertains to cosmetology. Students continue to

develop manipulative skills in air forming, wet hairstyling, chemical waving, hairsculpting, salesmanship, long hairstyling, chemical relaxing, conditioning, and to gain knowledge of trichology and chemistry, as they relate to cosmetology. Emphasis is placed on professionalism and client relationships.

COS 51C

INTERMEDIATE

COSMETOLOGY III

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 51B or equivalent with a grade of Pass or "C" or higher.

This is an intermediate course in theory as it pertains to cosmetology. Students continue to develop manipulative skills in facial waxing, acrylic nails, acrylic overlays, hair augmentation and to gain knowledge of trichology, dermatology, electricity, hair color, chemistry, health and safety, as they relate to cosmetology. Emphasis is placed on professionalism and client relationships.

COS 52A

ADVANCED COSMETOLOGY I

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 51C or COS 61B, or COS 70B or COS 72B with a grade of Pass or "C" or higher.

This is an advanced course in theory as it pertains to cosmetology. Students continue to develop manipulative skills in thermal hairstyling, competition styling, hair sculpting, conditioning, reconstruction, chemical waving, chemical straightening, skin care, European facials, and manicuring. Emphasis is placed on professionalism, client relationships, people skills, salon management, and State Board examination preparation.

COS 52B

ADVANCED COSMETOLOGY II

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 52A or equivalent with a grade of Pass or "C" or higher.

This is an advanced course in theory as it pertains to cosmetology. Students continue to develop manipulative skills in thermal hairstyling, competition styling, hair sculpting, conditioning, reconstruction, chemical waving and chemical straightening and hair coloring. Emphasis is placed on professionalism, client relationships and State Board examination preparation.

COS 52C

ADVANCED COSMETOLOGY III

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory

Prerequisite: COS 52B or equivalent with a grade of Pass or "C" or higher.

This is an advanced course in theory as it

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pertains to cosmetology. Students continue to develop manipulative skills in thermal hair-styling, styling, hair sculpturing, conditioning, reconstruction, chemical waving, chemical straightening, make-up, skin care, European facials, light therapy, skin diseases, skin disorders, acrylic nails and artificial nail tips nail wraps. Emphasis is placed on health and safety, professionalism, client relationships and State Board examination preparation.

COS 53

ADVANCED COSMETOLOGY MANIPULATION

6.5 UNITS

Class hours: 3.3 Lecture/9.8 Laboratory
Prerequisite: COS 52C or COS 62B or 70C or COS 73B with a grade of Pass or "C" or higher. This is an advanced course designed to permit the student to complete 1600 hours necessary to take the State Board of Cosmetology examination. It provides an opportunity for the student to continue developing manipulative skills in hairstyling, hair coloring, permanent waving, chemical straightening, scalp treatments, facials, waxing, manicuring, pedicuring, and thermal styling. This course may be taken a maximum of 3 times as necessary to complete 1600 hours.

COS 54

INTRODUCTORY ESTHETICIAN

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: Limitation on enrollment: Completion of 10th grade or equivalent. This is an introductory course designed to develop basic skills and theoretical knowledge necessary to enter the licensed esthetician vocation. Students develop knowledge in theories of cosmetic chemistry, products, and their use and effect on skin. Students' knowledge and ability are achieved in a minimum of 300 hours, through lecture, demonstrations and laboratory in a salon atmosphere.

COS 54A

ADVANCED ESTHETICIAN

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: COS 54 or equivalent with a grade of Pass or "C" or higher. This class is an advanced portion of the esthetic program. It develops skills in electrical modalities, depilatory waxing, paraffin waxing, advanced massage techniques, and corrective make-up. Students develop skills in selecting appropriate facial treatments. The students' ability and knowledge are to be achieved in a minimum of 300 hours through lecture and demonstration by working in a salon atmosphere.

COS 60A

INTRODUCTORY COSMETOLOGY I

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a Pass or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It is designed to acquaint the student with, and to develop their ability to perform the basic skills in hairstyling, hair sculpturing, hair coloring, permanent waving, and manicuring. Emphasis will be placed on the Cosmetology Act, State Board Rules and Regulations, safety, sanitation, anatomy, and chemistry as they relate to the cosmetology profession.

COS 60B

INTRODUCTORY COSMETOLOGY II

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: COS 60A or COS 71A with a grade of Credit or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It provides an opportunity for the student to perform basic skills in chemical relaxer, soft perms, press and curl, facials and people skills. It provides an opportunity for the student to continue developing manipulative skill in hairstyling, hair sculpturing, hair coloring, permanent waving, manicuring, and pedicuring. Emphasis will be placed on the safety and sanitation as it relates to the cosmetology profession, professionalism and client relationships.

COS 61A

INTERMEDIATE COSMETOLOGY I

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: COS 50C or 60B or 70A or 71B with a grade of Pass or "C" or higher.

This is an intermediate course in theory as it pertains to cosmetology. It provides an opportunity for the student to continue developing manipulative skills in thermal hairstyling, wet hairstyling, chemical waving, hair sculpturing, salesmanship, longhairstyling, chemical relaxing, make-up, conditioning, manicuring, and to gain knowledge of trichology, dermatology, and chemistry, as they relate to cosmetology. People skills, press and curl, hair design, and men's hairstyling will also be studied. Emphasis is placed on professionalism and client relationships.

COS 61B

INTERMEDIATE COSMETOLOGY II

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: COS 61A or COS 72A with a grade of Pass or "C" or higher.

This is an intermediate course in theory as it pertains to cosmetology. It provides an opportunity for the student to continue developing people skills, manipulative skills in haircolor, manicuring, scalp treatments, chemical waving, hair sculpturing, and chemistry, hairdesign, permanent wave, press and curl, and chemical relaxing. Emphasis is placed on professionalism, client relationships, and people skills.

COS 62A

ADVANCED COSMETOLOGY I

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: COS 51C or COS 61B or COS 70B or COS 72B with a grade of Pass or "C" or higher.

This is an advanced course in theory as it pertains to cosmetology. It provides an opportunity for the student to continue developing manipulative skills in haircoloring, thermal hairstyling, competition styling, hair sculpturing, conditioning, reconstruction, chemical waving, chemical straightening, facials, make-up, and manicuring. Emphasis is placed on professionalism, client relationships and State Board examination preparation.

COS 62B

ADVANCED COSMETOLOGY II

10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: COS 62A or COS 73A with a grade of Pass or "C" or higher.

This is an advanced course in theory as it pertains to cosmetology. It provides an opportunity for the student to continue developing manipulative skills in haircoloring, thermal hairstyling, competition styling, hair sculpturing, conditioning, reconstruction, chemical waving, chemical straightening, facials, make-up, and manicuring. Emphasis is placed on professionalism, client relationships and State Board examination preparation.

COS 63

ADVANCED COSMETOLOGY MANIPULATION

5.0 UNITS

Class hours: 2.5 Lecture/7.5 Laboratory
Prerequisite: COS 62B or COS 70C or COS 73B with a grade of Pass or "C" or higher.

This is an advanced course designed to permit the student to complete 1600 hours necessary to take the State Board of Cosmetology

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examination. It provides an opportunity for the student to continue developing manipulative skills in hairstyling, haircoloring, permanent waving, chemical straightening, scalp treatments, facials, waxing, manicuring, pedicuring, and thermal styling. This course may be taken for a maximum of 2 times as necessary to complete 1600 hours.

COS 70A INTRODUCTORY COSMETOLOGY 8.0 UNITS

Class hours: 4.2 Lecture/12.5 Laboratory
Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It is designed to acquaint the student with and to develop their ability to perform the basic skills in hairstyling, hairsculpturing, haircoloring, permanent waving, manicuring, and facials. Emphasis will be placed on the Cosmetology Act, State Board Rules and Regulations, safety, sanitation, anatomy, and chemistry as it relates to the cosmetology industry.

COS 70B INTERMEDIATE COSMETOLOGY 8.0 UNITS

Class hours: 4.2 Lecture/12.5 Laboratory
Prerequisite: COS 50C or COS 60B or COS 70A or COS 71B with a grade of Pass or "C" or higher.

This is an intermediate course in technical and related theory as it pertains to cosmetology. It provides an opportunity for the student to consider developing manipulative skills in hair coloring, thermal hairstyling, chemical waving, chemical straightening, facials, make-up, manicuring. Emphasis is placed on professionalism and personal/client relationships.

COS 70C ADVANCED COSMETOLOGY MANIPULATION 8.0 UNITS

Class hours: 4.2 Lecture/12.5 Laboratory
Prerequisite: COS 51C or COS 61B or COS 70B or COS 72B with a grade of Pass or "C" or higher.

This is a course in theory as it pertains to cosmetology. It provides an opportunity for the student to continue developing manipulative skill in haircoloring, thermal hairstyling, competition styling, hairsculpturing, conditioning, reconstruction, chemical waving, chemical straightening, facials, make-up, and

manicuring. Emphasis is placed on professionalism, client relationships and State Board examination preparation. This course may be taken a maximum of 2 times as necessary to complete 1600 hours.

COS 71A INTRODUCTORY COSMETOLOGY 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It provides an opportunity for the student to perform basic skills in chemical relaxer, soft perms, press and curl, facials, and people skills. Emphasis will be placed on the safety and sanitation as it relates to the cosmetology profession.

COS 71B INTRODUCTORY COSMETOLOGY II 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Prerequisite: COS 60A or COS 71A with a grade of Pass or "C" or higher.

This is an introductory course in the technical and related theory and manipulative skills pertaining to the field of cosmetology. It provides an opportunity for students to perform basic skills in press and curl, braiding, female and men's hairsculpture, and how to relate to people. It provides an opportunity for students to continue developing manipulative skill in hairstyling, haircoloring, permanent waving, manicuring, and pedicuring. Emphasis will be placed on safety and sanitation as it relates to the cosmetology profession, professionalism, and the client.

COS 72A INTERMEDIATE COSMETOLOGY I 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Prerequisite: COS 50C or COS 60B or COS 70A or COS 71B with a grade of Pass or "C" or higher.

This is an intermediate course in technical and related theory as it pertains to cosmetology. It provides an opportunity for the student to continue developing manipulative skills in hair coloring, thermal hairstyling, chemical waving, chemical straightening, facials, make-up, manicuring. Emphasis is placed on professionalism and personal/client relationships. (Formerly COS 71B)

COS 72B INTERMEDIATE COSMETOLOGY II 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Prerequisite: COS 61A or COS 72A with a grade of Pass or "C" or higher.

This is an intermediate course in theory as it pertains to cosmetology. It provides an opportunity for students to continue developing manipulative skills in thermal hairstyling, wet hairstyling, chemical waving, hairsculpturing, salesmanship, long hairstyling, chemical relaxing, and braiding to gain knowledge of trichology and chemistry, as they relate to cosmetology. People skills, press and curl, hair design, and men's hairstyling will also be studied. Emphasis is placed on professionalism and client relationships.

COS 73A ADVANCED COSMETOLOGY I 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Prerequisite: COS 51C or COS 61B or COS 70B or COS 72B with a grade of Pass or "C" or higher.

This is a course in theory as it pertains to cosmetology. It provides an opportunity for the student to continue developing manipulative skills in haircoloring, thermal hairstyling, competition styling, hairsculpturing, conditioning, reconstruction, chemical waving, chemical straightening, facials, make-up, and manicuring. Emphasis is placed on professionalism, client relationships and State Board examination preparation. This course may be taken for a maximum of 2 times as necessary to complete 1600 hours.

COS 73B ADVANCED COSMETOLOGY II 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Prerequisite: COS 62A or COS 73A with a grade of Pass or "C" or higher.

This is an advanced course in theory as it pertains to cosmetology. It provides an opportunity for students to continue developing manipulative skills in haircoloring, thermal hairstyling, competition styling, hairsculpturing, conditioning, reconstruction, chemical waving, chemical straightening, facials, make-up, and manicuring. Emphasis is placed on professionalism, client relationships, and State Board examination preparation.

COS 80A INSTRUCTION TECHNIQUES IN COSMETOLOGY I 10.0 UNITS

Class hours: 5.0 Lecture/15.0 Laboratory
Prerequisite: A valid Cosmetology license and five years verified work experience. This course is the first of two sequenced courses

designed to prepare the licensed cosmetologist for the cosmetology instructor examination as required by the Board of Barbering and Cosmetology. Content includes demonstrations on teaching with the student participating in both lectures of related information and practical demonstration of topics that are required for State Board licensure.

COS 80B
INSTRUCTION TECHNIQUES
IN COS II **10.0 UNITS**

Class hours: 5.0 Lecture/15.0 Laboratory
 Prerequisite: COS 80A or equivalent with a grade of Pass or "C" or higher.
 This advanced course is designed to continue the preparation of the licensed cosmetologist for the cosmetology instructor examination as required by the Board of Barbering and Cosmetology. The lecture section consists of continued and more advanced demonstrations in teaching with the student participating in both lectures of related information and practical demonstration of students that are required for State Board licensure.

COS 98
DIRECTED STUDIES **1.0 UNIT**

Class hours: 3.0 Independent Study
 A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

COS 99
DIRECTED STUDIES **2.0 UNITS**

Class hours: 6.0 Independent Study
 A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

COUNSELING AND GUIDANCE

(Counseling & Guidance Division)

CG 1 (Not Degree Applicable)
CAREER PLANNING **1.0 UNIT**

Class hours: 1.0 Lecture
 This course is designed to help the student approach career decisions in a systematic way. A variety of techniques are used to assess individual characteristics and relate these to occupational information. At times, sections may be offered which emphasize particular types of situations such as the person making initial career decisions, mid-life career changes, and minority programs.

CG 2 (Not Degree Applicable)
SELF AWARENESS
TOWARDS EDUCATION
READINESS **2.0 UNITS**

Class hours: 2.0 Lecture/3.3 Laboratory
 This course is designed to aid the student in identifying and evaluating individual, educational, and vocational ability. Self-awareness techniques will be used to enhance this assessment process. This class is designed primarily for the EOPS summer students, but is open to all interested students. Field work experience will assist the student to develop skills that enhance his/her work performance. (Ten hours field work for those employed as work study or equivalent volunteer experience as approved by instructor. This course may be taken for a maximum of 2 times.

CG 3 (Not Degree Applicable)
ORIENTATION FOR THE STUDENT
WITH DISABILITIES **1.0 UNIT**

Class hours: 1.0 Lecture
 This course is designed to orient the disabled student to the varied programs and services offered by Cerritos College. An IEP/learning contract will be developed for each student who enrolls in this course. Emphasis is on assisting the disabled student to successfully integrate into all aspects of the college.

CG 4 (Not Degree Applicable)
CAREER EXPLORATION FOR THE
STUDENT WITH DISABILITIES **1.0 UNIT**

Class hours: 1.0 Lecture
 This course is designed to assist the disabled student in the process of developing goals for future employment. An Individual Educational Plan (IEP)/learning contract will be developed for each student who enrolls in this course. Emphasis is upon exploring career choices, assessment of interests, and the development of employment seeking skills.

CG 5 (Not Degree Applicable)
PERSONAL ASSESSMENT
FOR THE STUDENT WITH
DISABILITIES **1.0 UNIT**

Class hours: 1.0 Lecture
 Prerequisite: CG 3 or equivalent with a grade of Pass or "C" or higher
 This course is designed to assist the student with disabilities to develop personal assessment techniques. The course will present concepts and methods of self-evaluation and personal action including goal setting, time management, making choices, achieving objectives and self advocacy.

CG 6 (Not Degree Applicable)
FAMILY LIVING FOR THE
STUDENT WITH DISABILITIES **1.0 UNIT**

Class hours: 1.0 Lecture
 This class is designed to explore the various aspects of family life from the viewpoint of the disabled person. An Individual Educational Plan (IEP)/learning contract will be developed for each student who enrolls in this course. Sexuality, marriage and parenting will be addressed. This course may be taken for a maximum of 4 times.

CG 50
ORIENTATION AND
EDUCATIONAL PLANNING **0.5 UNIT**

Class hours: 0.5 Lecture
 This course is designed to introduce students to services offered at Cerritos College; the history and mission of the system of post-secondary education system in California; policies and procedures which affect students at Cerritos College; educational planning, including major and general education requirements, course sequencing, and transfer requirements for the California State University and University of California systems. As part of the course, students will tour the Cerritos College campus, acquainting themselves with the location and function of various offices and service providers. Each student will produce an educational plan specific to her or his educational goal. This course is offered on a credit/no credit basis only. This course may be taken for a maximum of 4 times.

CG 100
COUNSELOR AIDE IN THE
COMMUNITY COLLEGE **2.0 UNITS**

Class hours: 2.0 Lecture
 This course is designed to familiarize the student with the functions and training in the techniques of the student counselor aide in a community college setting.
Transfer Credit: CSU

CG 150 (Not Degree Applicable)

DYNAMICS OF LEADERSHIP 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and participation in a college or community-based organization or club.

This course is designed for students who wish to develop a deeper understanding and appreciation of the theories, principles, and techniques of leadership in a college or community-based organization. It includes the study and practical application of group and individual leadership techniques. It is designed to improve awareness of group dynamics, listening skills, personal values, decision making, problem solving, and organizational development. It emphasizes critical analysis of leaders in the news, history, film, and/or literature.

Transfer Credit: CSU

CG 200

SUCCESS IN COLLEGE AND CAREER

3.0 UNITS

Class hours: 3.0 Lecture

This course will provide students with knowledge, information, and skills to better understand themselves as students, people, and members of the working world. It will assist them to establish life, career, educational, and personal goals and to develop plans and strategies to successfully meet those goals.

Transfer Credit: CSU

CG 210

JOB SEARCH STRATEGIES

1.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory

Recommendation: Completion or near completion of a degree program or certificate program or be actively seeking a new employment opportunity.

This is an open entry/open exit, self-paced course designed to prepare students to manage their transition from college-to-work and/or work-to-work situations. Students will learn the fundamentals of the job search process. Students will learn to develop job search strategies, prepare print and electronic resumes and improve their interview skills. This course is offered on a credit/no credit basis only. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

CG 220

TRANSITION TO UNIVERSITIES

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement process or ENGL 52

or equivalent with a grade of Pass or "C" or higher. Completion of 12 CSU/UC transferable units.

This course is a presentation and discussion of college life transitions. It addresses effective decision-making activities and strategies for transfer students. Included are evaluation of education/career goals; analysis, comparison, and evaluation of university admissions standards; review of major preparations; and an introduction to post-graduate entrance requirements. Students will make on-site research/field visits to universities and review available student services.

Transfer Credit: CSU

CG 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

CG 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

COURT REPORTING & CAPTIONING CAREERS

(Business Division)

CRCC 9A (Not Degree Applicable)

BEGINNING PROCAT

SOFTWARE

1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

This course will give court reporters and court reporting students an introduction to the use of ProCAT court reporting computer-aided transcription (CAT) software. Students will learn how to use this software in the CAT process of producing transcripts and writing realtime. This course is for students just beginning to use ProCAT software. This course may be taken a maximum of 4 times. (Formerly BUSC 9A)

CRCC 9B (Not Degree Applicable)

INTERMEDIATE

PROCAT SOFTWARE

1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

This course will give court reporters and court reporting students who are already using the basic functions of ProCAT software for court reporting computer-aided transcription (CAT) an introduction to some of the more advanced function capabilities of the software. This course may be taken a maximum of 4 times. (Formerly BUSC 9B)

CRCC 10A (Not Degree Applicable)

BEGINNING CASE CATALYST

1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

This course will give court reporters and court reporting students an introduction to the use of Case CATalyst court reporting computer-aided transcription (CAT) software. Students will learn how to use this software in the CAT process of producing transcripts and writing realtime. This course is for students who are just beginning to use Case CATalyst software. This course may be taken a maximum of 4 times. (Formerly BUSC 10A)

CRCC 10B (Not Degree Applicable)

INTERMEDIATE CASE

CATALYST SOFTWARE

1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

This course will give court reporters and court reporting students who are already using the basic functions of Case CATalyst software for court reporting computer-aided transcription (CAT) an introduction to some of the more advanced function capabilities of the software. This course may be taken a maximum of 4 times. (Formerly BUSC 10B)

CRCC 11 (Not Degree Applicable)

HAND CARE FOR COURT REPORTERS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
This course is designed to provide a variety of useful tools for maintaining hand care health for court reporting and captioning student who constantly use their hands in repetitive motion. Students will learn more about important aspects of hand care, including ergonomics, exercises, stretching, massage, as well as receiving instruction on how to find hand care therapists and products that can be used to reduce hand and arm tension and fatigue. (Formerly BUSC 11)

CRCC 50 COMPUTER-AIDED PROOFREADING 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Recommendation: CRCC 57A, CRCC 142, and CRCC 192 or equivalent with grades of Pass or "C" or higher.

This course is designed to help students acquire the skills necessary to proofread accurately and correct computer transcripts of legal proceedings. Proofreading is an essential step in the production of all computer-aided transcripts, including court records and deposition transcripts. This course may be taken for a maximum of 2 times. (Formerly BUSC 50)

CRCC 57A BEGINNING AURAL LANGUAGE SKILLS FOR COURT REPORTERS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CRCC 140, CRCC 141, and BCOM 46 or equivalent with grades of Pass or "C" or higher.

This course emphasizes the grammar, punctuation, and capitalization of spoken language including vocabulary building with an emphasis on spelling, homophone differentiation, and stenotype machine outlines requisite for realtime computer transcription. (Formerly BUSC 57A)

CRCC 57B ADVANCED AURAL LANGUAGE SKILL FOR COURT REPORTERS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: BCOM 46, CRCC 57A, CRCC 140, and CRCC 141 or equivalent with grades of Pass or "C" or higher.

This course is a continuation of the study of the grammar, punctuation, and capitalization of spoken language with emphasis on further developing the students' ability to analyze and correctly apply rules of punctuation, word usage, and spelling to increasingly complex sentence structures. Additional emphasis will

be placed on the creation of stenotype machine outlines requisite for realtime computer translation. (Formerly BUSC 57B)

CRCC 98 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.
(Formerly BUSC 98)

CRCC 99 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study
Prerequisite: A previous college course in the discipline.

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.
(Formerly BUSC 99)

CRCC 113 LEGAL TERMINOLOGY 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: CRCC 140 or equivalent with a grade of Pass or "C" or higher.

This course is designed to familiarize the students with legal terminology, which will prepare the students to become proficient in recognizing, using, and spelling legal terminology. This course will help the students master unfamiliar keying patterns and enhance the development of computerized shorthand skills. (Formerly BUSC 113)

Transfer Credit: CSU

CRCC 114 MEDICAL TERMINOLOGY FOR MACHINE SHORTHAND 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CRCC 142 or equivalent with a grade of Pass or "C" or higher.

This course of study involves medical dictation at varying degrees of speed. Dictation will include words peculiar to the human anatomy, including the skeletal structure, and medical prefixes and suffixes. Definitions of these words, pronunciation, and accuracy of transcript will be stressed. Dictation will be given for examinations, diagnoses, laboratory investigations, patient case histories, operation reports, medical records, and autopsy reports. (Formerly BUSC 114)

Transfer Credit: CSU

CRCC 115 MEDICAL SHORTHAND FOR COURT REPORTERS 4.0 UNITS

Class hours: 4.0 Lecture/1.0 Laboratory
Recommendation: CRCC 114, CRCC 143 or equivalent with grades of Pass or "C" or higher.

This course is designed to reinforce medical terminology and to build shorthand speed from dictation on familiar medical transcripts and other related material including medications, nuclear medicine, laboratory and X-ray procedures. (Formerly BUSC 115)

Transfer Credit: CSU

CRCC 116 INTRODUCTION TO COURTROOM PROCEDURES 4.0 UNITS

Class hours: 4.0 Lecture/2.0 Laboratory
Recommendation: CRCC 119C, CRCC 144 and CRCC 192 or equivalent with grades of Pass or "C" or higher.

This course is designed to give an overall view of the judicial system. In addition, the course content traces lawsuits and civil and criminal procedures from their inception through the trial and appeal. This course places emphasis on the court reporter's role at each phase of the trial. (Formerly BUSC 116)

Transfer Credit: CSU

CRCC 118 DEPOSITION PROCEDURES, CODES AND ETHICS 4.0 UNITS

Class hours: 4.0 Lecture/2.0 Laboratory
Recommendation: CRCC 144 or equivalent with a grade of Pass or "C" or higher.

This course provides a thorough understanding of deposition procedures, ethics, reference techniques, management skills, and introduces the California Codes pertinent to depositions. This course provides an opportunity to

develop management techniques and an understanding of professional practices. (Formerly BUSC 118)

Transfer Credit: CSU

**CRCC 119A
BEGINNING COMPUTER-
AIDED TRANSCRIPTION 3.0 UNITS**

Class hours: 2.0 Lecture/3.5 Laboratory
Recommendation: CRCC141, CRCC142 or equivalent with grades of Pass or "C" or higher.

This course introduces students to the Computer-Aided Transcription (CAT) process. It includes some history of CAT and some computer terminology. Students receive instruction in basic English text entry and nontechnical dictionary building. Students will be required to have an electronic stenotype machine or purchase a Prowriter attachment for their stenotype machine to create personal dictionaries of approximately 20,000 words. This course may be taken for a maximum of 2 times. (Formerly BUSC 119A)

Transfer Credit: CSU

**CRCC 119B
INTERMEDIATE COMPUTER-
AIDED TRANSCRIPTION 3.0 UNITS**

Class hours: 2.0 Lecture/3.5 Laboratory
Recommendation: CRCC 119A and CRCC 143 or equivalent with grades of Pass or "C" or higher.

This CAT course includes scoping, editing, transcribing, spell checking, formatting, and printing a document. Students use the Prowriter attachment or electronic stenotype machine to continue preparing their personal dictionaries on a disk. This course may be taken for a maximum of 3 times. (Formerly BUSC 119B)

Transfer Credit: CSU

**CRCC 119C
ADVANCED COMPUTER-
AIDED TRANSCRIPTION 3.0 UNITS**

Class hours: 2.0 Lecture/3.5 Laboratory
Recommendation: CRCC119B, CRCC 144 or equivalent with grades of Pass or "C" or higher.

This advanced CAT course integrates taking verbatim proceedings with the Prowriter attachment or an electronic stenotype machine, sending the notes to the computer, then scoping, editing, printing, and electronically filing the final document. This course may be taken for a maximum of 3 times. (Formerly BUSC 119C)

Transfer Credit: CSU

**CRCC 119D
BASIC CONCEPTS OF
REALTIME 3.0 UNITS**

Class hours: 2.0 Lecture/3.5 Laboratory
Recommendation: CRCC119 C or equivalent with a grade of Pass or "C" or higher.

This course introduces students to the principles of realtime writing for computer-aided transcription (CAT). It provides a complete plan for analyzing personal writing techniques, developing a consistent writing style, and implementing a step-by-step plan to reinforce realtime writing using a current court reporting CAT software system. This course may be taken for a maximum of 3 times. (Formerly BUSC 119D)

Transfer Credit: CSU

**CRCC 119E
COMPUTER-AIDED MEDICAL
DICTIONARY BUILD 3.0 UNITS**

Class hours: 2.0 Lecture/3.5 Laboratory
Recommendation: CRCC114 and CRCC 119B or equivalent with grades of Pass or "C" or higher.

This course is for students proficient in computerized machine shorthand writing skills and who are interested in a stenographic computer-aided medical transcribing career. It provides a systematic approach toward building a basic personal medical dictionary. The dictionary entries include Latin and Greek prefixes, roots, suffixes and combining forms as well as medical terminology that will be created using a computer-aided transcription (CAT) software system. This course may be taken for a maximum of 3 times. (Formerly BUSC 119E)

Transfer Credit: CSU

**CRCC 119F
COMPUTER-AIDED LEGAL
DICTIONARY BUILD 3.0 UNITS**

Class hours: 2.0 Lecture/3.5 Laboratory
Recommendation: CRCC 119B or equivalent with a grade of Pass or "C" or higher.

This course is for students proficient in computerized machine shorthand writing skills and who are interested in a career path in legal transcribing or court reporting. It provides a systematic approach toward building a basic legal computer-aided transcription (CAT) dictionary. Entries into the CAT dictionary include Latin and Greek prefixes, suffixes, roots, and combining forms of legal terminology used in various aspects of the legal system. This course may be taken for a maximum of 3 times. (Formerly BUSC 119F)

Transfer Credit: CSU

**CRCC 119G
COMPUTER-AIDED TRANSCRIPTION
FOR SCOPISTS 3.0 UNITS**

Class hours: 2.0 Lecture/2.6 Laboratory
Recommendation: CRCC 9A and CRCC 9B, or CRCC 10A and CRCC 10B, CRCC 119B, CRCC 140C or equivalent with grades of Pass or "C" or higher.

This course is designed for the student who wants to be a scopist for court reporters. It covers computer-aided transcription of a variety of judicial type proceedings utilizing specialized court reporting software. The student does not need to be a court reporting stenotype machine user but should already have completed a basic course in the software used to transcribe stenotype notes. This course may be taken a maximum of 2 times.

**CRCC 125
COMPUTERIZED SHORTHAND
REALTIME PRACTICUM I
(100-130 WPM) 4.5 UNITS**

Class hours: 2.0 Lecture/8.0 Laboratory
Recommendation: CRCC 119C, CRCC 119D and CRCC 143 or equivalent with grades of Pass or "C" or higher.

This course continues intensive sustained dictation to improve realtime writing and computer transcription ability. Latin and French words, Congressional Record, multiple-voice testimony, legal opinions, and expert opinion materials in realtime are included. This course may be taken for a maximum of 2 times. (Formerly BUSC 125)

Transfer Credit: CSU

**CRCC 126
COMPUTERIZED SHORTHAND
REALTIME PRACTICUM II
(120-150 WPM) 4.5 UNITS**

Class hours: 2.0 Lecture/8.0 Laboratory
Recommendation: CRCC 119C, CRCC 119D and CRCC 144 or equivalent with grades of Pass or "C" or higher.

This course continues intensive sustained dictation to improve realtime writing and computer transcription ability. Latin and French words, Congressional Record, multiple-voice testimony, Final Argument, Opening Statement and Conference at the Bench broaden keying vocabulary. This course may be taken for a maximum of 3 times. (Formerly BUSC 126)

Transfer Credit: CSU

CRCC 127
COMPUTERIZED SHORTHAND
REALTIME PRACTICUM III
(140-170 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 119C, CRCC 119D and CRCC 145 or equivalent with grades of Pass or "C" or higher.

This course develops realtime stenotype techniques and speed through the use of sustained dictation consisting of Congressional Record, literary, jury charge, and multiple-voice testimony. This course may be taken for a maximum of 3 times. (Formerly BUSC 127)

Transfer Credit: CSU

CRCC 128
COMPUTERIZED SHORTHAND
REALTIME PRACTICUM IV
(160-190 WPM) 5.0 UNITS

Class hours: 2.0 Lecture/10.0 Laboratory
 Recommendation: CRCC 119C, CRCC 119D and CRCC 146 or equivalent with grades of Pass or "C" or higher.

This course develops realtime stenotype techniques and speed through the use of sustained dictation consisting of Congressional Record, literary, jury charge, and multiple-voice testimony. In addition, this course prepares advanced students for various state and city hearing reporter examinations and employment. This course may be taken for a maximum of 4 times. (Formerly BUSC 128)

Transfer Credit: CSU

CRCC 129
COMPUTERIZED SHORTHAND
REALTIME PRACTICUM V
(180-210 WPM) 5.0 UNITS

Class hours: 2.0 Lecture/10.0 Laboratory
 Recommendation: CRCC 119C, CRCC 119D and CRCC 147 or equivalent with grades of Pass or "C" or higher.

This course offers intensive sustained dictation to increase realtime capability and to prepare advanced students for the Certified Realtime Reporter (CRR) examination and various positions. Simulated courtroom proceedings will be used as a means to qualify for the State Boards. This course may be taken for a maximum of 4 times. (Formerly BUSC 129)

Transfer Credit: CSU

CRCC 130
COMPUTERIZED SHORTHAND
REALTIME PRACTICUM VI
(190-225 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 119C, CRCC 119D and CRCC 148 or equivalent with grades of Pass or "C" or higher.

This course offers the student intensive, sustained dictation to increase realtime accuracy, endurance, and speed. The student is prepared for the National Court Reporters Certified Realtime Reporter Examination (CRR). This course may be taken for a maximum of 4 times. (Formerly BUSC 130)

Transfer Credit: CSU

CRCC 138
HOW TO SUCCEED IN
COURT REPORTING SCHOOL 1.0 UNIT

Class hours: 1.0 Lecture
 Recommendation: CRCC 140 and CRCC 141, or CRCC 140A and CRCC 140B, or CRCC 141A or CRCC 141B or equivalent with grades of Pass or "C" or higher.

This course is designed to teach court reporting students to create and follow their own plan for success in completing their court reporter training. Students will be provided with proven effective practices and ongoing motivational materials to consider and adopt so students will have a better opportunity to learn to motivate themselves through the challenging studies and practice required to succeed at their goals.

CRCC 139
EXPLORING CAREER
OPPORTUNITIES IN
COURT REPORTING 1.0 UNIT

Class hours: 1.0 Lecture
 This course provides the new and continuing student an overview of the various career paths and emerging opportunities available to students who are interested in studying court reporting. Students are guided through an overview of current career paths available and through the process of developing a personalized education plan in court reporting. This course may be taken for a maximum of 2 times. (Formerly BUSC 139)

Transfer Credit: CSU

CRCC 140
COMPUTERIZED SHORTHAND
THEORY 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Corequisite: CRCC 141
 Recommendation: BCOM 46 or equivalent with a grade of Pass or "C" or higher. Minimum typing speed of 35 wpm or enrollment in a typing class. This first semester course covers the basic theory of computer compatible shorthand and mastery of the stenotype keyboard. (Formerly BUSC 140)

Transfer Credit: CSU

CRCC 140A
COMPUTERIZED
SHORTHAND THEORY A 2.0 UNITS

Class hours: 1.0 Lecture/4.0 Laboratory
 Corequisite: CRCC 141A
 Recommendation: Minimum typing speed of 35 wpm or enrollment in a typing class.

This first-semester course covers the basic theory of computer compatible shorthand and mastery of the stenotype keyboard. (Formerly BUSC 140A)

Transfer Credit: CSU

CRCC 140B
COMPUTERIZED
SHORTHAND THEORY B 2.0 UNITS

Class hours: 1.0 Lecture/4.0 Laboratory
 Corequisite: CRCC 141B.

Recommendation: Minimum typing speed of 35 wpm or enrollment in a typing class. This second-semester course covers the basic theory of computer compatible shorthand and mastery of the stenotype keyboard. (Formerly BUSC 140B)

Transfer Credit: CSU

CRCC 140C
COMPUTERIZED SHORTHAND
THEORY FOR SCOPISTS 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: BCOM 46 or equivalent with a grade of Pass or "C" or higher and a minimum typing speed of 35 wpm or enrollment in a typing class.

This first-semester course covers the basic theory of computer-compatible shorthand for students who are interested in becoming scopists for court reporters. There is no hands-on use of the stenotype machine. Therefore, a machine is not required. Students will learn that theory and learn to read and transcribe the notes of the court reporter.

CRCC 141
COMPUTERIZED SHORTHAND
THEORY REVIEW/SKILL
DEVELOPMENT 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: Minimum typing speed of 35 wpm or enrollment in a typing class.

This course is an intensive review of the basic theory of computer compatible shorthand and is designed to complement the corresponding theory class through review of the lessons as they are completed. This course may be taken for a maximum of 2 times. (Formerly BUSC 141)

Transfer Credit: CSU

CRCC 141A
COMPUTERIZED SHORTHAND
THEORY REVIEW/SKILL
DEVELOPMENT A 2.0 UNITS

Class hours: 1.0 Lecture/4.0 Laboratory
 Recommendation: May be taken concurrently with CRCC 140A. Minimum typing speed of 35 wpm or enrollment in a typing class.
 This course is an intensive review of the first semester of the basic theory of computer compatible shorthand and is designed to complement the corresponding theory class through review of the lessons as they are completed. This course may be taken for a maximum of 2 times. (Formerly BUSC 141A)
Transfer Credit: CSU

CRCC 141B
COMPUTERIZED SHORTHAND
THEORY REVIEW/SKILL
DEVELOPMENT B 2.0 UNITS

Class hours: 1.0 Lecture/4.0 Laboratory
 Recommendation: May be taken concurrently with CRCC 140B. Minimum typing speed of 35 wpm or enrollment in a typing class.
 This course is an intensive review of the second semester of the basic theory of computer compatible shorthand and is designed to complement the corresponding theory class through review of the lessons as they are completed. This course may be taken for a maximum of 2 times. (Formerly BUSC 141B)
Transfer Credit: CSU

CRCC 142
INTERMEDIATE COMPUTERIZED
SHORTHAND 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 119A, CRCC 140 or equivalent with grades of Pass or "C" or higher.
 This course provides basis for developing, refining, and improving machine skill and speed. Emphasis is placed on frequently used words and phrases, word families, number drills, legal terms, literary and business dictation, and two-voice question and answer testimony. This course may be taken for a maximum of 2 times. (Formerly BUSC 142)
Transfer Credit: CSU

CRCC 143
COMPUTERIZED SHORTHAND
SPEED BUILDING I 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 119B or equivalent with a grade of Pass or "C" or higher. May be taken concurrently with CRCC 142 and CRCC 144. Minimum typing speed of 43 wpm or enrollment in a typing class.
 This course provides a continuing basis to further develop, refine, and improve machine shorthand skill and speed. In addition to

the areas emphasized in previous classes, jury charge and multiple-voice colloquy are included. This course may be taken for a maximum of 2 times. (Formerly BUSC 143)
Transfer Credit: CSU

CRCC 144
COMPUTERIZED SHORTHAND
SPEED BUILDING II 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 119C with a grade of Pass or "C" or higher. May be taken concurrently with CRCC 143 and CRCC 145. Minimum typing speed of 47 wpm or enrollment in a typing class.
 This course continues intensive sustained dictation to increase machine shorthand speed and to improve transcription ability. Latin and French words, Congressional Record, multiple-voice testimony, legal opinions, and expert opinion materials are included. This course may be taken for a maximum of 2 times. (Formerly BUSC 144)
Transfer Credit: CSU

CRCC 145
COMPUTERIZED SHORTHAND
SPEED BUILDING III 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 119D with a grade of Pass or "C" or higher. May be taken concurrently with CRCC 144 and CRCC 146. Minimum typing speed of 50 wpm or enrollment in a typing class.
 This course continues intensive sustained dictation to increase machine shorthand speed and to improve transcription ability. Latin and French words, Congressional Record, Multiple-voice testimony, Final Argument, Opening Statement, and Conference at the Bench broaden keying vocabulary. This course may be taken for a maximum of 3 times. (Formerly BUSC 145)
Transfer Credit: CSU

CRCC 146
COMPUTERIZED SHORTHAND
SPEED BUILDING (140-170 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 145 or equivalent with a grade of Pass or "C" or higher. May be taken concurrently with CRCC 147. Minimum typing speed of 55 wpm or enrollment in a typing class.
 This course is designed to develop stenotype techniques and speed through the use of sustained dictation consisting of Congressional Record, literary, jury charge, and multiple-voice testimony. This course may be taken for a maximum of 3 times. (Formerly BUSC 146)
Transfer Credit: CSU

CRCC 147
COMPUTERIZED SHORTHAND
SPEED BUILDING (160-190 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 185 with a grade of Pass or "C" or higher. May be taken concurrently with CRCC 146 and CRCC 148. Minimum typing speed of 60 wpm or enrollment in a typing class.
 This course is designed to develop stenotype techniques and speed through the use of sustained dictation consisting of Congressional Record, literary, jury charge, and multiple-voice testimony. In addition, this course is designed to prepare advanced students for various state and city hearings reporter examinations and employment. This course may be taken for a maximum of 4 times. (Formerly BUSC 147)
Transfer Credit: CSU

CRCC 148
COMPUTERIZED SHORTHAND
SPEED BUILDING (180-210 WPM) 5.0 UNITS

Class hours: 2.0 Lecture/10.0 Laboratory
 Recommendation: CRCC 185 with a grade of Pass or "C" or higher. May be taken concurrently with CRCC 147 and CRCC 149. Minimum typing speed of 60 wpm or enrollment in a typing class.
 This course offers intensive sustained dictation to increase machine shorthand speeds and to prepare advanced students for the CSR examination and various positions. Simulated courtroom proceedings will be used as a means to qualify for the State Boards. This course may be taken for a maximum of 4 times. (Formerly BUSC 148)
Transfer Credit: CSU

CRCC 149
COMPUTERIZED SHORTHAND
SPEED BUILDING (190-225 WPM) 5.0 UNITS

Class hours: 2.0 Lecture/10.0 Laboratory
 Recommendation: CRCC 185 or equivalent with a grade of Pass or "C" or higher. May be taken concurrently with CRCC 148. Minimum typing speed of 60 wpm and completion of 60 hours of apprenticeship training.
 This course is designed to offer intensive sustained dictation to increase endurance and speed. In addition, this course offers a comprehensive academic review in preparation for the Certified Shorthand Reporters and the National Court Reporters examinations. This course may be taken for a maximum of 4 times. (Formerly BUSC 149)
Transfer Credit: CSU

CRCC 152
INTRODUCTION TO JURY
CHARGE INTERMEDIATE
COMPUTERIZED SHORTHAND 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: CRCC 140 and CRCC 141 or equivalent with grades of Pass or "C" or higher. Minimum typing speed of 40 wpm.
 This short-term, intensive course is designed to introduce methodology of reporting and transcribing jury charge material and to develop punctuation skills, formatting techniques, and stenotype speed for this aspect of reporting. Sustained dictation consists of jury charge and two-voice testimony. This course develops proficiency in recording jury charge material at speeds ranging from 60-90 wpm. This course may be taken for a maximum of 2 times. (Formerly BUSC 152)
Transfer Credit: CSU

CRCC 153
MULTIPLE-VOICE COLLOQUY I
COMPUTERIZED SHORTHAND
SPEED BUILDING I 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: Minimum stenotype speed of 70 wpm and a minimum typing speed of 43 wpm.
 This short-term, intensive course promotes the development of speed, accuracy, and formatting techniques in reporting and transcribing multiple-voice colloquy. This course develops proficiency in recording colloquy at speeds ranging from 80-110 wpm. Sustained dictation consists of multiple-voice colloquy, jury charge, and two-voice testimony. This course may be taken for a maximum of 2 times. (Formerly BUSC 153)
Transfer Credit: CSU

CRCC 154
INTRODUCTION TO
CONGRESSIONAL RECORD
COMPUTERIZED SHORTHAND
SPEED BUILDING II 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: Minimum stenotype speed of 90 wpm and minimum typing speed of 47 wpm.
 This short-term, intensive course introduces methodology of reporting and transcribing Congressional Record material and develops punctuation skills, formatting techniques, and stenotype speed for this aspect of reporting. Sustained dictation consists of Congressional Record, jury charge, and two-voice testimony. This course develops proficiency in recording Congressional Record material at speeds ranging from 100-130 wpm. This course may be taken for a maximum of 2 times. (Formerly BUSC 154)
Transfer Credit: CSU

CRCC 155
MULTIPLE-VOICE COLLOQUY II
COMPUTERIZED SHORTHAND
SPEED BUILDING III 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: Minimum stenotype speed of 110 wpm and minimum typing speed of 50 wpm. This short-term, intensive course further promotes the development of speed, accuracy, and formatting techniques in reporting and transcribing increasingly complex multiple-voice colloquy. This course develops proficiency in recording colloquy at speeds ranging from 120-150 wpm. Sustained dictation consists of multiple-voice colloquy, jury charge, Congressional Record, and two-voice testimony. This course may be taken for a maximum of 3 times. (Formerly BUSC 155)
Transfer Credit: CSU

CRCC 156
JURY VOIR DIRE PROCEDURES
COMPUTERIZED SHORTHAND
SPEED DEVELOPMENT
(140-170 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: Minimum stenotype speed of 130 wpm and minimum typing speed of 55 wpm. This short-term, intensive course is designed to introduce methodology of reporting jury voir dire and to develop management techniques and stenotype speed for this aspect of reporting. The course develops proficiency in recording jury voir dire proceedings and jury charge at speeds ranging from 150-160 wpm. This course may be taken for a maximum of 3 times. (Formerly BUSC 156)
Transfer Credit: CSU

CRCC 157
CONGRESSIONAL TESTIMONY
COMPUTERIZED SHORTHAND
SPEED DEVELOPMENT
(160-190 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory
 Recommendation: Minimum stenotype speed of 150 wpm and minimum typing speed of 60 wpm.
 This short-term, intensive course promotes the development of speed and accuracy in taking dictation at the machine. Sustained dictation consists of Congressional Record, literary, jury charge, and multiple-voice testimony. This course also prepares advanced students for various state and city hearing reporter examinations. This course may be taken for a total of 3 times. (Formerly BUSC 157)
Transfer Credit: CSU

CRCC 158
PROFESSIONAL PRACTICES
HEARINGS/CONFERENCES
COMPUTERIZED SHORTHAND
SPEED DEVELOPMENT
(180-210 WPM) 5.0 UNITS

Class hours: 2.0 Lecture/10.0 Laboratory
 Recommendation: Minimum stenotype speed of 170 wpm and minimum typing speed of 60 wpm.
 This short-term intensive course is designed to introduce methodology of reporting hearings and conferences with multiple-speaker identification symbols and to develop management techniques and stenotype speed for this aspect of reporting. This course provides for the development of proficiency in writing multiple-voice dictation with an emphasis on hearings and conferences at speeds ranging from 180-210 wpm. This course may be taken for a maximum of 3 times. (Formerly BUSC 158)
Transfer Credit: CSU

CRCC 159
IN CURIA/IN CAMERA PROCEDURES
COMPUTERIZED SHORTHAND
SPEED DEVELOPMENT
(190-225 WPM) 5.0 UNITS

Class hours: 2.0 Lecture/10.0 Laboratory
 Recommendation: Minimum stenotype speed of 180 wpm, minimum typing speed of 60 wpm and completion of 60 hours of apprenticeship training.
 This course offers an overall view of the mechanics of trials and applications of court procedures. Students are assisted in acquiring a mastery of creating verbatim records. In addition, the course offers sustained dictation on all aspects of criminal and civil trials to develop professionalism. This course may be taken for a maximum of 3 times. (Formerly BUSC 159)
Transfer Credit: CSU

CRCC 173
COURT REPORTING AND
CAPTIONING CAREERS
OCCUPATIONAL
WORK EXPERIENCE 3.0 UNITS

Class hours: 1 hour/week coordination class
 Corequisite: Enrollment in 7 or more units, including Court Reporting and Captioning Careers Occupational Work Experience. Three units of Court Reporting and Captioning Careers Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Court Reporting and Captioning Careers Occupational Work Experience require 240

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non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BUSC 173)

Transfer Credit: CSU

CRCC 174 COURT REPORTING AND CAPTIONING CAREERS OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Court Reporting and Captioning Careers Occupational Work Experience. Three units of Court Reporting and Captioning Careers Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Court Reporting and Captioning Careers Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BUSC 174)

Transfer Credit: CSU

CRCC 180 COMPUTERIZED SHORTHAND SPEED BUILDING (225 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory

Recommendation: Strongly recommend completion of CSR academic requirements and Court Reporting CAT computer classes. Minimum stenotype speed of 190 wpm and typing speed of 60 wpm.

This course is designed for potential Certified Shorthand Reporter Examination candidates and Registered Professional Reporter Examination candidates. It will provide intensive sustained dictation at 225-240 wpm to develop speed and endurance on the steno machine. This course may be taken for a maximum of 4 times. (Formerly BUSC 180)

Transfer Credit: CSU

CRCC 181 COMPUTERIZED SHORTHAND SPEED BUILDING (240 WPM) 4.5 UNITS

Class hours: 2.0 Lecture/8.0 Laboratory

Recommendation: Minimum stenotype speed of 225 wpm and typing speed of 60 wpm. Strongly recommend completion of CSR academic requirements and Court Reporting CAT computer classes.

This course is designed for candidates for the Certified Shorthand Reporter examination, the Registered Professional Reporter examination, and the Registered Merit Reporter examination. It will provide intensive, sustained dictation at 240-260 wpm to develop speed, accuracy, and endurance on the steno machine. (Formerly BUSC 181)

Transfer Credit: CSU

CRCC 185 CSR/RPR EXAMINATION PREPARATION 1.5 UNITS

Class hours: 1.5 Lecture

Recommendation: Strongly recommend completion of Certified Shorthand Reporter's academic requirements.

This course is designed for potential Certified Shorthand Reporter Examination candidates and Registered Professional Reporter Examination candidates. It will provide academic preparation and reinforcement in selected subject areas. This course may be taken for a maximum of 3 times. (Formerly BUSC 185)

Transfer Credit: CSU

CRCC 192 TRANSCRIPTION PROCEDURES 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 141 or equivalent with a grade of Pass or "C" or higher and the ability of type 40 wpm.

This formatting relates to all types of legal and court documents including deposition transcripts. This course may be taken for a maximum of 2 times. (Formerly BUSC 192)

Transfer Credit: CSU

CRCC 193A BASIC CAPTIONING 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 119B and CRCC 144 or equivalent with grades of Pass or "C" or higher.

This course is designed to teach students the basics of realtime captioning as applied to broadcast captioning; captioning of video and other media; captioning for hearing impaired at public gatherings, meetings, and in the classroom; and captioning over the Internet. This course will cover the basic concepts of captioning for students interested in exploring a career in captioning. This course may be taken a maximum of 2 times. (Formerly BUSC 193A)

Transfer Credit: CSU

CRCC 193B BASIC BROADCAST CAPTIONING 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 119B, CRCC 144 and CRCC 193A or equivalent with a grade of Pass or "C" or higher.

This course is designed to be a basic course in broadcast captioning, also known in the industry as closed-captioning using court reporting skills. This course will cover the basic theoretical concepts of broadcast captioning for students interested in exploring a career in the broadcast captioning field. This course may be taken a maximum of 2 times.

CULINARY ARTS

(Health Occupations Division)

CA 15 (Not Degree Applicable) CERTIFICATION FOR FOOD HANDLER 0.5 UNIT

Class hours: 0.5 Lecture

This course covers the principles of food handling. It is a National Restaurant Association ServSafe course and meets current requirements established by regulatory agencies for a certified food handler. This course is offered on a credit/no credit basis only.

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CA 43 (Not Degree Applicable)

OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Culinary Arts work experience 43 or 20 hours of employment per week for Culinary Arts work experience 44. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Culinary Arts vocational program with 7 or more units including occupational work experience.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be repeated for a maximum of 2 times based on the number of hours on the job.

CA 44 (Not Degree Applicable)

OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Culinary Arts work experience 43 or 20 hours of employment per week for Culinary Arts work experience 44. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Culinary Arts vocational program with 7 or more units including occupational work experience.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be repeated for a maximum of 2 times based on the number of hours on the job.

CA 52

INTRODUCTION TO COMMERCIAL FOOD PRODUCTION

6.0 UNITS

Class hours: 4.0 Lecture/6.0 Laboratory

Corequisite: CA 101 with a grade of Pass or "C" or higher or prior completion.

This course introduces the beginning student to the ingredients, methods, and skills in commercial food production. The content will include history, nutrition, equipment, knife skills, ingredients, stocks and sauces, breakfast cookery, cold garde manger, and basic yeast bread production. A negative T.B. test for food service personnel is a State regulation.

CA 53

COMMERCIAL FOOD

PRODUCTION: PANTRY ITEMS 9.5 UNITS

Class hours: 3.0 Lecture/20.0 Laboratory

Prerequisite: CA 52 and CA 101 or equivalent with grades of Pass or "C" or higher.

This is a basic course in fundamentals of hotel and restaurant dinner cooking and methods of preparing special pantry items. Lecture/demonstrations and practical experience in varied methods of cooking techniques are an essential part of this course.

CA 54

COMMERCIAL FOOD

PRODUCTION: MEATS & POULTRY

9.5 UNITS

Class hours: 3.0 Lecture/20.0 Laboratory

Prerequisite: CA 53 or equivalent with a grade of Pass or "C" or higher.

This course is designed to familiarize the student with the principles and procedures of hotel restaurant butchering, meat purchasing, and the carving of meats and poultry. Includes lecture/demonstration and practical experience in carving procedures, trimming, boning, rolling, tying, and cutting of steaks and chops.

CA 60

FOODS PURCHASE AND CONTROL

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to familiarize the student with all aspects of purchasing and cost control within the foodservice industry. Instruction and experience in the areas of forecasting operational needs, menu pricing, food purchasing, and cost control are included.

CA 65 (Not Degree Applicable)

FOOD COSTING

2.0 UNITS

Class hours: 2.0 Lecture

This course emphasizes the use of food costing to control expenses for a food service establishment. This course will cover various costing systems, menu item pricing, and inventory maintenance. This course may be taken a maximum of 3 times.

CA 80

INTRODUCTION TO BAKING SKILLS

4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Corequisite: CA 101 with a grade of Pass or "C" or higher or prior completion.

This course introduces the student to basic baking techniques and basic ingredients utilized in the industry. This course will cover developing a variety of breads, sweet doughs,

roll varieties, pie dough and fillings, cakes and pastries. A negative T.B. test for food service personnel is a State regulation.

CA 81

PROFESSIONAL BAKING AND PASTRY PRODUCTION I

5.0 UNITS

Class hours: 3.0 Lecture/7.0 Laboratory

Prerequisite: CA 80 and CA 101 or equivalent with grades of Pass or "C" or higher.

This course introduces the student to the baking industry, baked products, and ingredients. The student will develop basic skills utilized in professional bakeries. Demonstration and practical experiences in the preparation and use of doughs, pastries and creams, adjusting standard recipes, and interpretive use of weights and measures are included. A negative T.B. test for food service personnel is a State regulation.

CA 82

PROFESSIONAL BAKING AND PASTRY PRODUCTION II

5.0 UNITS

Class hours: 3.0 Lecture/7.0 Laboratory

Prerequisite: CA 81 or equivalent with a grade of Pass or "C" or higher.

This advanced baking course provides the opportunity to increase skills in producing a more uniform product, with high eye appeal, and improved taste and structure. These products include cake, pastries, icings, and fillings. Processed frozen dough, fried products, and frozen baked products are introduced. Maintaining product freshness is emphasized. A negative T.B. test for food service personnel is a State regulation.

CA 98

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

CA 99

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department.

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

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With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

CA 101 INTRODUCTION TO FOOD SERVICE, SAFETY, AND SANITATION

1.0 UNIT

Class hours: 1.0 Lecture

This course covers the principles of food microbiology, important foodborne diseases, standards that are enforced by regulatory agencies, and applied measures for the prevention of foodborne diseases and other microbiological problems. This course meets current food protection standards for regulatory agents. ServSafe Certification Exam will be administered.

Transfer Credit: CSU

CA 120 INTRODUCTION TO HOSPITALITY

3.0 UNITS

Class hours: 3.0 Lecture

This course is an overview of the hospitality industry and its various segments. Course content will include history, organizations, trends, and job opportunities.

Transfer Credit: CSU

DANCE

(Health, Physical Education Division)

DANC 50 (Not Degree Applicable) INDIVIDUALIZED DANCE DEVELOPMENT

1.0 UNIT

Class hours: 3.8 Laboratory

This course is designed to provide students the individualized opportunity to acquire and practice the dance skills necessary for participation in dance concerts, local and regional dance festivals and choreography competitions. (Formerly PE 3, PE 50)

DANC 100 DANCE APPRECIATION

3.0 UNITS

Class hours: 3.0 Lecture

This course offers study styles, artists, and the cultural/historical characteristics of dance as an art form and social expression. Topics for study

will include current events, and popular trends. Materials are presented through lectures, video examples, class discussion, and attendance at live dance concerts. (Formerly PE 179)

Transfer Credit: CSU; UC

DANC 101 HISTORY OF DANCE

3.0 UNITS

Class hours: 3.0 Lecture

Students will study dance history from ancient to modern times, beginning with tribal, ethnic and folk dance and on through contemporary ballet, modern and jazz dance. (Formerly PE 191)

Transfer Credit: CSU; UC

DANC 105 INTRODUCTION TO DANCE MOVEMENT

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Students will study dance movement in three basic styles: ballet, modern and jazz. For each form, proper body alignment, stretching and styling techniques will be presented in a dance class format. This includes warm-ups, progressions and dance combinations. This course may be taken for a maximum of 4 times. (Formerly PE 180)

Transfer Credit: CSU; UC

DANC 106A BEGINNING BALLET

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Students will study basics of ballet terminology and technique. Emphasis is on body alignment, coordination and musicality. This course may be taken for a maximum of 2 times. (Formerly PE 186A)

Transfer Credit: CSU; UC

DANC 106B INTERMEDIATE BALLET

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Students will study the advanced terminology and technique of classical ballet. This course may be taken for a maximum of 2 times. (Formerly PE 186B)

Transfer Credit: CSU; UC

DANC 107 BALLET VARIATIONS

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course is designed to continue the development of technical ballet skills with emphasis on developing physical and artistic expression through the execution of classical and contemporary variations. This course may be taken for a maximum of 4 times. (Formerly PE 194)

Transfer Credit: CSU; UC

DANC 108A DANCE, MODERN, BEGINNING

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Students will study the expressive body movements in a creative art form. Emphasis will be on developing modern dance skills and technique as well as conditioning the body by improving posture, flexibility, strength, and coordination. This course may be taken for a maximum of 2 times. (Formerly PE 182A)

Transfer Credit: CSU; UC

DANC 108B DANCE, MODERN, INTERMEDIATE

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Students will study intermediate level modern skills and will utilize basic movement and music principles to choreograph dance sequences. This course may be taken for a maximum of 2 times. (Formerly PE 182B)

Transfer Credit: CSU; UC

DANC 109 INTRODUCTION TO DANCE CULTURES OF THE WORLD

2.0 UNITS

Class hours: 4.0 Laboratory

Students will study dance styles representative of different cultures and nationalities. Introduction to many different dance forms will be explored, taking into consideration historical background, related folklore and how dance differs from culture to culture. This course may be taken for a maximum of 4 times. (Formerly PE 181)

Transfer Credit: CSU; UC

DANC 110 COMMERCIAL DANCE

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course is designed to emphasize movement for commercial dance work used in film, concert dance, television and industrial shows and commercials. It offers instruction in current trends of popular dance. This course may be taken for a maximum of 4 times. (Formerly PE 195)

Transfer Credit: CSU; UC

DANC 120 PARTNERING FOR DANCE

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Students will study partner dancing involving groups of two or more dancers. It will serve as an introduction to the art of partnering in modern, jazz, and classical choreography. Not limited to male/female partnering, students will study choreography involving any body contact or shifting of weight from one individual to

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another. This course may be taken for a maximum of 2 times. (Formerly PE 185)
Transfer Credit: CSU; UC

DANC 121 LATIN SOCIAL DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is an overview of Latin social dance including tango, salsa, meringue, paso doble, bolero, mambo and cha cha. Areas of study include movement theory, dance, vocabulary, performance, etiquette and dance history. This course may be repeated for a maximum of 4 times. (Formerly PE 196)
Transfer Credit: CSU; UC

DANC 122 MIDDLE EASTERN DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
The course will introduce students to the history of Middle Eastern dance in its different forms and styles. The evolution of the dance form from its traditional styles to a fusion of Eastern and Western dance styles is also presented. This course may be taken a maximum of 4 times. (Formerly PE 199)
Transfer Credit: CSU; UC

DANC 123 AFRICAN DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course introduces students to selected dances of Africa through the practice of steps and choreography. Music and history of the dances studied with their social and religious significance in African culture are presented. Emphasis is placed on coordination of polyrhythmic body movements with the music. This course may be taken a maximum of 4 times. (Formerly PE 198)
Transfer Credit: CSU; UC

DANC 124 HIP HOP DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course covers the various forms of beginning hip hop dance, including a basic history of hip hop dancing and the aligned movement vocabulary, terminology, and social/theatrical codifications. This course may be taken a maximum of 4 times. (Formerly PE 197)
Transfer Credit: CSU; UC

DANC 125 INTRODUCTION TO BALLROOM DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to introduce ballroom dancing through the understanding of history,

music, and performance opportunities. Basic steps, variations and styling techniques for the fox trot, waltz, swing, cha cha, tango, bolero, rumba, samba and other selected styles will be included. This course may be taken for a maximum of 4 times. (Formerly PE 193)
Transfer Credit: CSU; UC

DANC 130 CHOREOGRAPHY 2.0 UNITS

Class hours: 4.0 Laboratory
Students will study the elements of dance composition as well as learn about well known choreographers and their work. The study will include the selection of movement appropriate to the meaning of a dance, the arrangements of movement in space, and the overall design of the dance and its staging. This course may be taken for a maximum of 2 times. (Formerly PE 184)
Transfer Credit: CSU; UC

DANC 131 DANCE NOTATION 3.0 UNITS

Class hours: 3.0 Lecture
Students will study basic dance notation with in-depth work in elementary Labanotation and an introduction to Benesh and Kineseography notation systems. These systems are taught by using graphs, musical scores, and stick figures or drawings. (Formerly PE 190)
Transfer Credit: CSU; UC

DANC 132 DANCE AND DIGITAL TECHNOLOGY 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
The student will study how technology has historically and traditionally been used in the field of dance. Emphasis will be placed on the various technologies that currently impact the art of dance. The majority of topics in the course will be related to the art of dance. (Formerly PE 192)
Transfer Credit: CSU

DANC 133 DANCE PRODUCTION 2.0 UNITS

Class hours: 4.0 Laboratory
Students will study the elements of dance production such as choreography, lighting, design, costume design, music, and concert publicity. Students will choreograph and perform in the concert or work backstage as part of the technical crew. This course may be taken for a maximum of 4 times. (Formerly PE 183)
Transfer Credit: CSU; UC

DANC 134 DANCE PERFORMANCE 2.0 UNITS

Class hours: 4.0 Laboratory
Students will study the aspects of dance performance through participation in the semester dance concert. Emphasis is placed on improving classroom dance technique and elevating skills to a performance level. This course may be taken for a maximum of 4 times. (Formerly PE 188)
Transfer Credit: CSU; UC

DANC 135 DANCE WORKSHOP 2.0 UNITS

Class hours: 4.0 Laboratory
Students will study the technical dance skills in ballet, jazz and modern dance. The course includes exploration of the elements of composition and affords the opportunity to experiment with improvisation and set choreography. Students will work on individual and group projects and participate in the faculty dance concert. This course may be taken for a maximum of 4 times. (Formerly PE 189)
Transfer Credit: CSU; UC

DANC 136 DANCE REPERTORY 2.0 UNITS

Class hours: 4.0 Laboratory
Students will study a repertoire of dances in the styles of ballet, modern, jazz, ethnic, and dance theatre. The advanced student will participate in performances on campus as well as in the community. This course may be taken for a maximum of 4 times. (Formerly PE 187)
Transfer Credit: CSU; UC

DANC 140 BEGINNING JAZZ DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is an introduction to jazz techniques and dance styles. Emphasis is on mastering the fundamental skills basic to jazz dance techniques and artistic performance. This course may be taken a maximum of 2 times.
Transfer Credit: CSU; UC

DANC 141 INTERMEDIATE JAZZ DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: TH 140 or DANC 140 or equivalent with a grade of Pass or "C" or higher.
This course is a continuation of the development of jazz dance techniques and style begun in TH 140 or DANC 140. Emphasis is on mastery of more complicated jazz dance combination

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patterns and their performance. This course may be taken a maximum of 2 times.

Transfer Credit: CSU; UC

DANC 142 BEGINNING TAP DANCE

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course is an introduction to basic tap dance techniques and styles. Emphasis is on mastery of basic tap dance steps, rhythms, combination patterns and their performance. This course may be taken a maximum of 2 times.

Transfer Credit: CSU; UC

DANC 143 INTERMEDIATE TAP DANCE

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: TH 142 or DANC 142 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the development of tap dance techniques and style begun in TH 142 or DANC 142. Emphasis is on mastery of more complicated tap dance steps, rhythms, combination patterns, and their performance. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

DANC 144 DANCE FOR MUSICAL THEATRE

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course is an introduction to musical theatre dance styles, techniques and repertory. Emphasis is on mastering the fundamental skills and styles basic to musical theatre dance technique and performance. This course may be taken a maximum of 2 times.

Transfer Credit: CSU; UC

DENTAL ASSISTING

(Health Occupations Division)

DA 1 (Not Degree Applicable)

DENTAL RADIATION SAFETY LICENSE

1.5 UNITS

Class hours: 1.3 Lecture/1.7 Laboratory

Prerequisite: Verification of a minimum of 480 hours of work experience as a dental assistant.

This course prepares the working dental assistant with theories and techniques of intra-oral and extra-oral radiography including application to a variety of patients. Upon

satisfactory completion of this course, the student will receive a California Radiation License. This course may be taken for a maximum of 2 times. This course is offered on a credit/no credit basis only.

DA 51

APPLIED DENTAL SCIENCE I

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

This course is an introduction to the application of basic dental sciences and infection control. It includes dental terminology, microbiology, anatomy of the head and neck, oral physiology, tooth morphology, preliminary oral examination, taking impressions for study models, pouring models, and bleaching techniques. It also includes procedures in managing asepsis, infection and hazard control consisting of maintenance, disinfection and sterilization of equipment, supplies, and disposal of hazardous waste pertaining to patient care.

DA 52

DENTAL RADIOGRAPHY I

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course is a study of the dental x-ray, the characteristics and methods of controlling x-radiation, types of film used methods of processing, identifying, and mounting radiographs, radiation safety procedures, interpretation of radiographs, and an analysis of technique errors. It includes modern intra-oral dental and extra-oral radiographic techniques, arrangement and care of the darkroom equipment, composition and preparation of solutions, procedures for processing films, and mounting films. The student will practice on the manikin exposing films using radiation protection and safety guidelines.

DA 53

INTRODUCTION TO CHAIRSIDE ASSISTING

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Corequisite: DA 54

This course involves instruction in the role and responsibilities of the chairside assistant. It includes basic qualifications, preparing patient for treatment, taking of a health history, charting, terminology, positioning of patient-operator-auxiliary for four-handed dental procedures, assisting with administration of local anesthetic agents, placement of a rubber dam, instrument exchange, oral evacuation, retraction, illumination, and assisting with endodontic procedures. Cardiopulmonary resuscitation is included as part of the course content.

DA 54

INTRODUCTION TO OPERATORY PROCEDURES

4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Corequisite: DA 53

This course includes manikin instruction in the techniques, materials, and instrumentation for assisting in operative dental procedures such as amalgam and composite restorations, gold inlays and crowns, and fixed bridges. An introduction to intra-oral tasks delegated to registered dental assistants which are related to operative dentistry, such as matrix placement, placement of bases and liners, placement of plastic temporary restorations, and removal of excess cement is also provided.

DA 61

APPLIED DENTAL SCIENCE II

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: DA 51 or equivalent with a grade of Pass or "C" or higher.

Corequisite: DA 63

This course includes a study of oral pathology, nitrous oxide, pharmacology and medical emergencies in the dental office. Students will develop and implement a community dental health project. In addition, emphasis will be placed on preventive dentistry, which includes the use of fluorides, effective oral hygiene, nutritional guidelines, and development of a plaque control program. Instruction, clinical experience, and evaluation of both coronal polishing and application of pit and fissure sealants on teeth will be included.

DA 62

DENTAL RADIOGRAPHY II

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: DA 52 or equivalent with a grade of Pass or "C" or higher.

The student will be instructed in advance techniques of dental radiography, anatomical landmarks and dental anatomy pertaining to dental radiography with emphasis placed on evaluation of films. The student will practice taking full mouth radiographs for diagnosis by a dentist. Operation of panoramic equipment will also be included.

DA 63

ADVANCED CHAIRSIDE ASSISTING

4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: DA 53 and DA 54 or equivalent with grades of Pass or "C" or higher.

Corequisite: DA 65

This course includes instruction in the specialties of dentistry and armamentarium

required in each specialty. Laboratory content includes development of preclinical skills in the extended functions which are required for the Registered Dental Assistant.

DA 64 DENTAL OFFICE MANAGEMENT

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: DA 51 or equivalent with a grade of Pass or "C" or higher.

This course includes instruction in the non-clinical functions which are integral to the dental office. Subject areas include office communications, scheduling appointments, making financial arrangements, recall, completing insurance forms, record keeping, inventory, bookkeeping, marketing strategies, the use of computers, and other related skills required of a secretarial dental assistant.

DA 65 CLINICAL I DENTAL SCHOOLS

3.0 UNITS

Class hours: 1.0 Lecture/7.0 Laboratory
Prerequisite: DA 53, DA 54 or equivalent with grades of Pass or "C" or higher.
Corequisite: DA 61, 62, and 63.

This course includes the practice of dealing with patients and working with dental students in four-handed dental procedures. The clinical instruction in this course is conducted at dental schools. Emphasis is placed on general operative dentistry, endodontics, and treating emergency patients. Weekly seminars are devoted to the evaluation of the clinical experience which includes techniques, patients' special needs, and communicating with patients and staff.

DA 75 CLINICAL II COOPERATIVE OFFICE TRAINING

5.0 UNITS

Class hours: 1.1 Lecture/10.7 Laboratory
Prerequisite: DA 65 or equivalent with a grade of Pass or "C" or higher.

This course includes the practice of working as a member of the dental team in community dental offices under the direct supervision of dentists. Emphasis is placed on general practice procedures, specialty areas, and the clinical application of intraoral tasks assigned to the registered dental assistant. Proficiency of all skills in the use of equipment is emphasized. The students will develop a professional attitude in all phases of dental assisting, including legal and ethical aspects of dental practice. Weekly seminars are held to evaluate and review clinical applications. Preparation for the certification and Registered Dental Assistant examinations will be included.

DENTAL HYGIENE

(Health Occupations Division)

DH 110

PREVENTIVE DENTISTRY I 2.0 UNITS

Class hours: 2.0 Lecture
Prerequisite: Admission to the Dental Hygiene Program.

This course introduces the student to the concept of optimum oral health care through plaque control, preventive dentistry and the role of the auxiliaries on the dental health team. Emphasis is placed on oral hygiene practices and patient motivation. Also included are etiology of soft and hard deposits, and patient instruction in plaque control care.

Transfer Credit: CSU

DH 111

INFECTION CONTROL AND DENTAL OFFICE EMERGENCIES 2.0 UNITS

Class hours: 2.0 Lecture
Prerequisite: Admission to the Dental Hygiene Program.

Corequisite: DH 115C

This course covers the basic principles of infection control and the application of "standard precautions" in the dental health care setting. Included in this course is the selection and use of procedures and products to prevent the spread of infectious diseases in the practice of dental hygiene. Specific step-by-step procedures and current regulatory mandates related to infection control and the management of hazardous materials will be covered in detail. In addition, knowledge and skills related to preparedness for the prevention of medical emergencies in the dental setting will be covered.

Transfer Credit: CSU

DH 112

DENTAL HYGIENE RADIOGRAPHY 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: Admission to the Dental Hygiene Program.

This course is a study of dental radiography, the characteristics and methods of controlling x-radiation, types of film used, methods of processing, identifying, and mounting radiographs, radiation safety procedures, and interpretation of radiographs for preliminary evaluation. It includes the theories and techniques of intra-oral and extra-oral, and digital radiography with laboratory experience and analysis of technique errors.

Transfer Credit: CSU

DH 114

DENTAL HYGIENE CLINICAL SCIENCE I 2.0 UNITS

Class hours: 2.0 Lecture
Prerequisite: Admission to the Dental Hygiene Program.

Corequisite: DH 115C

This course introduces the student to the methodology and rationale for patient assessment and data collection. It includes patient histories, determination of vital signs, extraoral and intraoral examination, examination of the gingival and periodontal tissues, examination of the teeth and appropriate documentation of the data. The student will receive essential information for assessment of a patient prior to the formulation of the dental hygiene treatment service plan.

Transfer Credit: CSU

DH 115C

PRE-CLINICAL DENTAL HYGIENE I 2.0 UNITS

Class hours: 6.0 Laboratory
Prerequisite: Admission to the Dental Hygiene Program and a valid adult, child and infant CPR card including two-person CPR.

Corequisite: DH 114

This course provides the student with the pre-clinical and clinical experience designed to develop thorough and efficient dental instrumentation techniques for comprehensive oral hygiene services.

Transfer Credit: CSU

DH 116

HEAD AND NECK ANATOMY 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: Admission to the Dental Hygiene Program.

Corequisite: DH 119

This course is a detailed study of the anatomy and physiology of the human head and neck. Emphasis is placed on the correlation of structure and function especially where applicable to clinical dental hygiene.

Transfer Credit: CSU

DH 119

DENTAL EMBRYOLOGY, HISTOLOGY, AND ANATOMY 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: Admission to the Dental Hygiene Program.

Corequisite: DH 115C and DH 116

This course covers an introduction to orofacial structures and the study of orofacial embryology, oral histology, and dental anatomy. Clinical considerations relevant to dental hygiene practice and root morphology to enhance instrumentation are included.

Transfer Credit: CSU

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DH 120

PREVENTIVE DENTISTRY II 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: DH 114 and HO 152 or equivalent with grades of Pass or "C" or higher.

Corequisite: DH 125C

Recommendation: DH 110 or equivalent with a grade of Pass or "C" or higher.

This course offers clinical information in the areas of patient motivation for plaque control, including periodontal disease, and dietary analysis. Techniques in nutritional counseling for the dental patient will be emphasized.

Transfer Credit: CSU

DH 125

DENTAL HYGIENE

CLINICAL SCIENCES II 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Prerequisite: DH 114 and DH 115C or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 125C.

This course is designed to support Clinical Dental Hygiene II. It is intended to allow for weekly discussions pertinent to clinical skills and related subjects which can be applied in the dental clinic setting. An overview of the technique and procedures particular to each dental specialty is presented. Dental clinic policies and procedures for clinic operation will be emphasized.

Transfer Credit: CSU

DH 125C

CLINICAL DENTAL HYGIENE II 3.0 UNITS

Class hours: 9.0 Laboratory

Prerequisite: DH 115C or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 125

This course provides the student with clinical experiences in the practical application of dental procedures to perform comprehensive oral hygiene services. Students are scheduled at off-campus dental clinics with supervision from the Cerritos College Dental Hygiene Faculty and will have the opportunity to observe various dental specialties.

Transfer Credit: CSU

DH 126

GENERAL AND

ORAL PATHOLOGY

2.0 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: DH 112, DH 116, and DH 119 or equivalent with grades of Pass or "C" or higher.

Corequisite: DH 125C

This course includes an in-depth study of the principles of general pathology and the specifics of oral pathology. Emphasis is placed on the clinical recognition, differential

diagnosis, and treatment of oral pathologic conditions and associated systemic disorders.

Transfer Credit: CSU

DH 127

PHARMACOLOGY

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: DH 115C, DH 116, and DH 119 or equivalent with grades of Pass or "C" or higher.

Corequisite: DH 125C and DH 128.

This course covers the general principles of pharmacology, use of therapeutic agents utilized in dental practice, an overview of medically prescribed drugs used by dental patients and a background of contemporary pharmacologic issues which concern the consumer.

Transfer Credit: CSU

DH 128

MANAGEMENT OF PAIN

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: DH 116 with a grade of Pass or "C" or higher.

Corequisite: DH 125 and DH 127

This course is designed to teach the student management of pain control through the use of local anesthetic agents and the administration of nitrous oxide and oxygen when used as a sedative. The physiology and pharmacology agents, indications and contra-indications for use, and the treatment of complications and emergencies are stressed. Other modalities of pain control will be discussed.

Transfer Credit: CSU

DH 129

APPLIED PERIODONTICS

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: DH 114 or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 125C

This course is designed to provide the student with a thorough understanding of the role of the hygienist in the treatment of periodontal disease. The normal periodontium, the pathogenesis of periodontal disease, etiology, and therapy are studied in detail. Soft tissue curettage and root planing are emphasized.

Transfer Credit: CSU

DH 150C

CLINICAL DENTAL

HYGIENE IIA

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: DH 125C & DH 128 or equivalent with a grade of Pass or "C" or higher.

This course provides the student with clinical experiences in the delivery of dental services on patients, utilizing instructor assisted guided

discovery learning methodology. Students are scheduled at select contract dental facilities.

Transfer Credit: CSU

DH 232L

DENTAL MATERIALS

LABORATORY

1.0 UNIT

Class hours: 3.0 Laboratory

Corequisite: DH 235C

This course emphasizes the reasons specific dental materials are employed and the ways in which they react to the oral environment. Biological considerations in the selection and utilization of various dental materials are stressed. The course is designed to provide the dental hygiene student with an understanding of laboratory techniques and chairside procedures commonly encountered in dentistry.

Transfer Credit: CSU

DH 234

DENTAL CARE FOR THE

SPECIAL PATIENT

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: DH 125C and DH 127 or equivalent with grades of Pass or "C" or higher.

Corequisite: DH 235C

This introductory course for dental hygiene care of the medically compromised and older adult patient covers basic information on disease entities which cause disabilities and are common in the older person. Emphasis will be on recognition of medical precautions, medications which affect oral health, barriers and access to oral health care, and prevention and treatment of oral diseases.

Transfer Credit: CSU

DH 235

DENTAL HYGIENE CLINICAL

SCIENCES III

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Prerequisite: DH 125C or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 235C

This course is designed to support Clinical Dental Hygiene III. It is intended to allow for further studies in advanced periodontal treatment.

Transfer Credit: CSU

DH 235C

CLINICAL DENTAL

HYGIENE III

4.0 UNITS

Class hours: 12.0 Laboratory

Prerequisite: DH 125C or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 235

This course is designed to provide the student with the continuation of clinical experiences

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in performing comprehensive dental hygiene services. Students are scheduled at a variety of dental facilities in Los Angeles County. Under the supervision of the Cerritos College Dental Hygiene faculty, the student will perform traditional dental hygiene functions increasing in complexity through the sequence of clinical courses.

Transfer Credit: CSU

DH 238 COMMUNITY OUTREACH I 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

Prerequisite: DH 110 or equivalent with a grade of Pass or "C" or higher.

This course provides a basic introduction to the principles of health education, including discussion of the teaching/learning process, and effective pedagogy for the diverse population of the elementary school-aged child. The principles learned will be applied in the delivery of dental health education to elementary school children in the community. In addition, a basic framework for table clinic development will be presented, and support will be given to students in the planning process of this activity.

Transfer Credit: CSU

DH 239 INTRODUCTION TO DENTAL BIostatISTICS AND RESEARCH 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: Admission to the Dental Hygiene Program.

This course provides an introduction to research methodology and biostatistics. Emphasis will be placed on the reading and interpreting of scientific literature in dentistry and dental hygiene and using technology in searching for appropriate research to complete applicable assignments.

Transfer Credit: CSU

DH 244 ETHICAL ISSUES IN DENTAL HYGIENE 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: DH 235C or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 245C.

This course investigates ethical issues, dilemmas, and the State Dental Practice Act that affect the standards of behavior for the dental hygienist. Principles of general and biomedical ethics are applied to common examples of situations faced by dentists and hygienists in today's dental practice.

Transfer Credit: CSU

DH 245 DENTAL HYGIENE CLINICAL SCIENCES IV 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Prerequisite: DH 235C or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 245C

This course is designed to support Clinical Dental Hygiene IV and prepare the students for the National Board Dental Hygiene Examination. Current dental treatment philosophies and technological advances in dentistry are presented through case-base problem simulations. In addition, the subject of myofunctional evaluation and therapeutic treatment modalities will be introduced.

Transfer Credit: CSU

DH 245C CLINICAL DENTAL HYGIENE IV 4.0 UNITS

Class hours: 12.0 Laboratory

Prerequisite: DH 235C or equivalent with a grade of Pass or "C" or higher.

Corequisite: DH 245

This course is designed to provide the student with the continuation of clinical experiences in performing comprehensive dental hygiene services to patients with complex periodontal problems. Increased opportunities are experienced at multiculturally diverse community settings. With supervision from the Cerritos College Dental Hygiene faculty, the student will perform traditional dental hygiene functions to a greater number of patients with increased efficiency and complexity and will provide services in a geriatric nursing home.

Transfer Credit: CSU

DH 248 COMMUNITY OUTREACH II 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

Prerequisite: DH 238 or equivalent with a grade of Pass or "C" or higher.

This course provides a basic introduction to the principles of adult education. Opportunities are provided to deliver dental health education to a variety of age groups and special needs individuals in the community. Emphasis will be on student knowledge and initiative in the design, implementation, and evaluation of a dental health program for an adult group in the community. Additionally, table clinics on a current topic of interest will be presented in the community. (Formerly DH 248L)

Transfer Credit: CSU

DH 249 PRINCIPLES OF COMMUNITY ORAL HEALTH 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: Admission to the Dental Hygiene Program

This course introduces basic concepts of dental public health including career opportunities for the dental hygienist, community health assessment, oral health status and trends, and health care delivery and financing. Emphasis will be placed on public health issues and related research.

Transfer Credit: CSU

DH 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

DH 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

EARTH SCIENCE

(Science, Engineering, Mathematics Division)

ESCI 101 PHYSICAL ECOLOGY 3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory
Recommendation: ENGL 100 clearance and MATH 40 or equivalent with a grade of Pass or "C" or higher.

This course is a general studies course including problems of current concern relative to hydrologic, oceanographic and atmospheric processes as they affect and are affected by man's activities. The technologic, economic, and political aspects of pollution and solutions to environmental problems are studied.

Transfer Credit: CSU; UC

ESCI 102 PHYSICAL ECOLOGY FIELD LABORATORY 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: Concurrent enrollment in ESCI 101 or prior completion of ESCI 101 or equivalent with a grade of Pass or "C" or higher.

This is a general studies course offering an opportunity for a more complete understanding of environmental problems discussed in Earth Science 101. It includes a hands-on approach to understanding the processes and materials involved in environmental problems by identification, measurement, and analysis in the field and in the lab. (Formerly ESCI 101L)

Transfer Credit: CSU; UC

ESCI 104 OCEANOGRAPHY 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Math Placement Process or MATH 40 or equivalent with a grade of Pass or "C" or higher.

This course consists of an introduction to the geography of the oceans, geology of the ocean basins, and the chemistry and physics of sea water. The ecology of the sea and its effect on ecosystem are also covered. Landforms and processes of the coastal zone and use and abuse of the marine environment are also discussed. This course is not open to students who have credit for ESCI 5.

Transfer Credit: CSU; UC

ESCI 104L OCEANOGRAPHY LABORATORY 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: ESCI 104 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment.

This laboratory/field study course is designed to supplement Earth Science 104. Emphasis will be placed on the interrelationships between the geological, chemical, physical, and biological aspects of the marine environment. In addition, human use and abuse of the coastal zone and marine environment will be analyzed.

Transfer Credit: CSU; UC

ESCI 106 WEATHER AND CLIMATE 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: ENGL 100 clearance and MATH 40 or equivalent with a grade of Pass or "C" or higher.

This course is a survey of the processes and patterns in the atmosphere which result in the regional distribution of weather and climate.

Transfer Credit: CSU; UC

ESCI 110 INTRODUCTION TO EARTH SCIENCE 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Recommendation: ENGL 100 clearance and MATH 40 or equivalent with a grade of Pass or "C" or higher.

This course is designed for the non-science major. It is not open to those with college credit in geology, physical geography or physical anthropology. It is an integrated course designed to give broad, general knowledge in the areas of anthropology, astronomy, geology, geography, meteorology.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. No credit for ESCI 110 if taken after a college course in Geology, Geography, or Astronomy.*

ESCI 180 EARTH SCIENCE MATERIALS AND PREPARATIONS 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: A college course in the earth sciences with a grade of Pass or "C" or higher.

This course is designed primarily for earth science majors. It includes the use and care of earth science materials with particular reference to the preparation and demonstration of laboratory set-ups. An introduction to stockroom procedures is included. As an alternative, a special project resulting in a report or display on some specific topic is possible. This course may be taken for a maximum of 2 times

Transfer Credit: CSU

ESCI 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

ESCI 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ECONOMICS

(Humanities, Social Science Division)

ECON 101 ECONOMIC ISSUES AND POLICY 3.0 UNITS

Class hours: 3.0 Lecture
This is a one-semester survey of basic economic concepts and institutions stressing the role of the United States in the global economy. The course presents the foundations of economic analysis and applications to the market-oriented economy, role of government, and relationships and comparisons with the world economy. It is designed for students

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who desire an economic perspective without an intensive or technical investigation.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. No credit for ECON 101 if taken after ECON 202.*

ECON 102 WOMEN IN GLOBAL ECONOMY 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course is an introduction to the global economy from the perspectives of women in developing countries. Drawing from various disciplinary fields such as economics, history, political science, anthropology and postcolonial studies, it examines critically the processes of globalization that impact the multiple identities and oppressions which shape women's lives with respect to race, gender, class and culture. This course studies the consequences of strategies of modernization and neocolonialism employed by agencies of economic development such as the World Bank and International Monetary Fund on the lives of women in the developing countries and the surrounding ecological environment.

Transfer Credit: CSU; UC

ECON 201 (CAN ECON 2) PRINCIPLES OF MACROECONOMICS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: MATH 40 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

Recommendation: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This one-semester course emphasizes the study of the macro-economy, business cycles of prosperity and recession, unemployment and inflation, Keynesian and classical theories, aggregate spending and the level of economic activity, banking and interest rates and the Federal Reserve, international trade and finance.

Transfer Credit: CSU; UC

ECON 202 (CAN ECON 4) PRINCIPLES OF MICROECONOMICS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes microeconomics; the study of the behavior of specific markets, firms and consumers in a market economy. This is an introduction to economics which is the study of how scarce resources are used to

produce and distribute goods and services. The principle of economic choice and opportunity costs are emphasized.

Transfer Credit: CSU; UC

ECON 204 MONEY, ETHICS, AND ECONOMIC JUSTICE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Students will study the ethical issues such as pros and cons of capitalism, ethics of inequality, responsibilities to the poor, ethics and honesty in business, job responsibility, social obligations of corporations, affirmative action, and sexual harassment.

Transfer Credit: CSU; UC

ECON 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ECON 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC

campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

EDUCATION/ELEMENTARY SCHOOL TEACHERS

(Humanities, Social Science Division)

EDEL 100 INTRODUCTION TO TEACHING AND LEARNING IN DIVERSE CONTEMPORARY CLASSROOM 1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: Enrollment in the Cerritos College Teacher Training Academy (Teacher TRAC) or CSULB'S Integrated Teacher Education program (ITEP).

EDEL 100 will provide students with an introduction to teaching as a profession. The course will address the qualities of an effective teacher, components and purposes of an effective professional portfolio, and critical issues in diverse contemporary classrooms. In this course, students will initiate development of their Teacher TRAC Reflective Practitioner Workbook.

Transfer Credit: CSU

EDEL 105 INTRODUCTION TO TEACHING (SINGLE SUBJECT CREDENTIAL) 1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: Enrollment in the Cerritos College Teacher Training Academy.

EDEL 105 will provide students with an introduction to the profession of teaching at the secondary level. Teaching and learning in contemporary classrooms serving diverse student populations are discussed. The course will address professional teaching standards and current educational issues. Students will begin development of their Teacher TRAC Reflective Portfolio. Ten hours observation in a middle/high school is a required component of this course.

Transfer Credit: CSU

EDEL 200 INTRODUCTION TO EDUCATION 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Enrollment in the Cerritos College Teacher Training Academy (Teacher TRAC) or CSULB'S Integrated Teacher Education Program (ITEP), and completion of EDEL 100 or equivalent with a grade of Pass or "C" or higher.

EDEL 200 provides an overview of the teaching profession for students enrolled in the Teacher

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TRAC Program. Students will be exposed to the philosophies of education, the history of education in America, the society of education, contemporary issues in education, and the role of education in American society. This course includes 40 hours of field experience.

Transfer Credit: CSU

EDEL 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

EDUCATIONAL TECHNOLOGY

(Technology Training and Distance Education)

EDT 19 FUNDAMENTALS OF TELECONFERENCING 1.0 UNIT

Class hours: 1.0 Lecture
This course introduces students to teleconferencing - the interactive transmission of images, sound, data, and control between two or more sites using digital lines. Emphasis will be placed on teleconferencing as a research and training tool in fields such as finance, health care, education, criminal justice, child care, and entertainment. Students will participate in live teleconferences and employ electronic technologies. This course may be taken for a maximum of 4 times.

EDT 20 TELECONFERENCING FOR SMALL GROUPS 2.0 UNITS

Class hours: 2.0 Lecture
This course introduces students to the concepts and vocabulary of teleconferencing in small rooms and seminars. Emphasis is placed on safety, scheduling, event planning, wrap-around activities, audio and video

fundamentals, audiographics, and networking. Students will critically review videos of professional, small-group encounters. This course may be taken for a maximum of 2 times.

EDT 21 TELECONFERENCE TELEMATICS 1.0 UNIT

Class hours: 1.0 Lecture
This course develops students' facility in developing telematics media, which employ both analog and digital technologies. Emphasis is placed on those production elements necessary to teleconferencing, including stage and set design, visual and audio media, meeting and conference protocols, and information gathering and distribution. This course may be taken for a maximum of 4 times.

EDT 22 TELECONFERENCE REVIEW AND EVALUATION 1.0 UNIT

Class hours: 1.0 Lecture
This course introduces students to the evaluation criteria of teleconferenced events. Students will attend events at the Teleconference Center and the local area and produce written evaluations that employ objective and subjective measurements, audience feedback, and principles of quality control. This course may be taken for a maximum of 4 times.

EDT 23 TELECONFERENCE PRODUCTION 3.0 UNITS

Class hours: 3.0 Lecture
This course provides students with direct experience in producing, directing, and evaluating live, interactive teleconferences, including auditorium, small group, and classroom site events. Emphasis is placed on safety, scheduling, event planning, "wrap-around" activities, audio and video fundamentals, audiographics, and networking. Students will co-produce and critically review live teleconference events. This course may be taken for a maximum of 3 times.

EDT 24 TELECONFERENCE PORTFOLIO 3.0 UNITS

Class hours: 3.0 Lecture
This course helps students prepare a video demonstrating their expertise of interactive, teleconferenced meetings and events. The course is a requirement for all students completing the Certificate in Teleconferencing Practitioner. This course may be taken for a maximum of 3 times.

EDT 30 FUNDAMENTALS OF INSTRUCTION MULTI-MEDIA PRODUCTION 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
The Fundamentals of Instructional Multi-Media Production course focuses on the multi-media skills needed to work within today's educational environments. The course provides a foundation in the use of multi-media production equipment, computer software applications, and other resources to support educators and educational programs. This course may be taken for a maximum of 2 times.

EDT 43 EDUCATIONAL OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: 1 lecture
Corequisite: Enrollment in 7 or more units, including Educational Occupation Work Experience in a declared educational major. Three units of Educational Occupation Work Experience require 180 non-paid hours or 225 paid hours of work per semester.

Work experience provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences in the educational work place. The goal of the program is to assist students in expanding specific job skills. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to a career in education must be completed at the training site. Second semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. Three units of Educational Occupation Work Experience requires 180 non-paid hours of work or 225 paid hours of work per semester. This course may be taken a maximum of 2 times.

EDT 50 PREPARATION FOR ONLINE LEARNING 1.0 UNIT

Class hours: 1.0 Lecture
This course teaches students the skills necessary to successfully complete a class on the Internet. Topics include study skills, online student profiles, introduction to the Internet and the World Wide Web, using email and other online services, and basic aspects of word processing.

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EDT 51

EMAIL FOR EDUCATORS

1.0 UNIT

Class hours: 1.0 Lecture

This course trains educators and prospective educators who wish to learn about email and how to incorporate email into the academic environment. Participants will learn the fundamentals of email use and management techniques. Emphasis is placed on email within the educational community. Educational topics will include creating lesson plans that utilize email as part of an activity, netiquette, and issues surrounding student safety and security.

EDT 52

WINDOWS FOR EDUCATORS

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: EDT 50 or EDT 51 or equivalent with a grade of Pass or "C" or higher.

This course trains educators and prospective educators in the use of the Microsoft Windows operating environment/system. Topics include desktop settings, file and print management, features of the Windows menu system, Windows attributes, and program management.

EDT 53

MACINTOSH FOR EDUCATORS

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: EDT 50 or EDT 51 or equivalent with a grade of Pass or "C" or higher.

This course trains educators and prospective educators in the use of Macintosh computers in an academic setting. Topics include desktop settings, file and print management, features of the Macintosh menu bar system, attributes, and program management.

EDT 57

APPLE/CLARIS WORKS FOR EDUCATION

1.0 UNIT

Class hours: 1.0 Lecture

This course is intended to teach educators the skills and capabilities of integrated software packages such as Claris Works, Apple Works, and Microsoft Works. These are all popular software products used in the K-12 learning environment. Topics include word processing, desktop publishing and presentations, spreadsheets, and databases. Students will produce a variety of documents useful in the K-12 classroom. This course may be taken for a maximum of 2 times.

EDT 66

POWERPOINT FOR FUTURE TEACHERS

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: EDT 50 or EDT 51, EDT 52 or EDT 53, and EDT 110 or equivalent with grades of Pass or "C" or higher.

This course teaches presentation graphics using Microsoft PowerPoint. Topics covered include creating, managing, and delivering a curriculum-based presentation. Students will produce conceptual and data-intensive presentations, speaker notes, and handouts incorporating text and graphics.

EDT 67

INSPIRATION PRESENTATIONS

1.0 UNIT

Class hours: 1.0 Lecture

This course is intended to teach educators the basics of Inspiration, an "idea-mapping" and outlining software tool used in education. Students will create presentation diagrams and outlines to build and reinforce ideas. Students will learn to link presentations directly to the World Wide Web. Using the Internet and other resources, students will create lesson plans to incorporate into their curricula. This course may be taken for a maximum of 4 times.

EDT 68

USING KIDPIX

1.0 UNIT

Class hours: 1.0 Lecture

This course is intended to teach educators how to use and teach KidPix, a popular software product for the K-6 learning environment. Topics include creating desktop publishing projects, multimedia projects, and animation using KidPix. Using the Internet and other resources, students will create lesson plans to incorporate into their curricula. This course may be taken for a maximum of 4 times.

EDT 70

EXCEL FOR FUTURE TEACHERS

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: EDT 50 or EDT 51, EDT 52 or EDT 53, and EDT 110 or equivalent with grades of Pass or "C" or higher.

This course trains educators and prospective educators in the use of electronic spreadsheets using Microsoft Excel. Topics include the fundamentals of creating worksheets, formulas, and functions, creating charts, Wizards, and techniques to manipulate large worksheets and multiple-sheet workbooks.

EDT 81

VIDEOS FOR SCHOOL USE

2.0 UNITS

Class hours: 2.0 Lecture

This course is intended to teach educators the basics of video production for use in the K-12 environment. The course will cover

equipment, adding text, graphics, and special effects, scripting, interviewing, and editing. This course may be taken for a maximum of 2 times.

EDT 98

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

EDT 99

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

EDT 100

INTEGRATION OF THE INTERNET INTO CURRICULUM

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course is designed for educators who wish to learn about the Internet and how to incorporate the Internet into the classroom curriculum. Participants will learn fundamental and advanced Internet search methods, email use and management, and techniques for setting up and using a website in the classroom. A supportive learning community will be provided where educators collaborate to improve their skills in creating effective learning resources using suitable technologies.

Transfer Credit: CSU

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EDT 101

CREATING CURRICULUM

PROJECTS USING THE INTERNET 1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: EDT 100 or equivalent with a grade of Pass or "C" or higher.

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course is for educators who wish to learn about the Internet through innovative curriculum projects. Participants will use fundamental Internet search methods, e-mail and web sites in the creation of an Internet-based project supporting project- or problem-based learning. A supportive learning community will be provided where educators collaborate and improve their skills in creating effective learning resources using suitable technologies. Other topics include impact of technology on education; past, current, and future technology trends; and copyright issues.

Transfer Credit: CSU

EDT 102

CREATING TECHNOLOGY-BASED CURRICULUM

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: EDT 110 or equivalent with a grade of Pass or "C" or higher.

This course is designed for educators and future educators who wish to expand their Internet and technology-integration skills to be used when developing classroom curriculum. Participants will learn to create Internet ready curriculum and methods for using a website in the classroom. A supportive learning environment will be provided where educators and future educators collaborate to improve their skills in creating effective learning resources using suitable technologies.

Transfer Credit: CSU

EDT 103

SPREADSHEETS FOR EDUCATORS

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course trains educators and prospective educators to use efficiently technology to perform administrative, instructional, and other classroom tasks using electronic spreadsheet software. Spreadsheet-specific topics include the fundamentals of creating worksheets; formulas and functions; creating charts; using Wizards; techniques to manipulate large worksheets and multiple-sheet workbooks; and integration of spreadsheet software into course curriculum. Other topics include impact of technology on education;

past, current, and future technology trends; and copyright issues. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

EDT 104

WORD PROCESSING FOR EDUCATORS

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course trains educators and prospective educators who wish to learn how to work with word processing documents as they prepare curriculum. Participants will use basic and intermediate word processing functions to create administrative, instructional, and classroom management documents. Word processing topics include creating, editing, saving, formatting, printing, spell checking, searching, replacing, headers and footers, footnotes and hyphenation, thesaurus, macros, merging and outlining functions. Other topics include impact of technology on education; past, current, and future technology trends; and copyright issues. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

EDT 105

POWERPOINT FOR EDUCATORS

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course trains educators and prospective educators who wish to learn how to work with Microsoft PowerPoint as a mode of teaching and as they prepare curriculum. Participants will use basic and intermediate presentation graphic software functions to create administrative, instructional, and classroom management materials. Topics include creating, managing, and delivering a multi-media curriculum-based presentation. Students will produce conceptual and data-intensive presentations, create professional output for overheads, on-screen presentations, speaker notes, and support handouts incorporating text and graphics. Other topics include impact of technology on education; past, current, and future technology trends; and copyright issues. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

EDT 106

ACCESS FOR EDUCATORS

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or equivalent with grades of Pass or "C" or higher.

This course trains educators and prospective educators in the use of database management systems using Microsoft Access. Topics include techniques for building a database, tables, queries, forms, and reports. Other topics include designing curricular lessons and student assignments utilizing databases. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

EDT 107

DESKTOP PUBLISHING FOR EDUCATORS

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course provides an introduction to the functions of desktop publishing software with an emphasis on the educational community. Topics include creating camera-ready printed presentation materials and developing presentation materials such as letterhead stationery, signs and flyers, newsletters, and a personal portfolio. Other topics include impact of technology on education; past, current, and future technology trends; and copyright issues.

Transfer Credit: CSU

EDT 108

PHOTOSHOP ELEMENTS FOR EDUCATORS

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with a grade of Pass or "C" or higher.

This course covers the basic through advanced features of Adobe Photoshop Elements. Students will be introduced to the fundamentals of Adobe Photoshop Elements while discovering practical and creative uses of the application to increase speed and quality of learning in the classroom. Methods of integrating this software into the educational setting will be explored. Digital stories and photo essays will be used as an alternative learning style.

Transfer Credit: CSU

EDT 109

DEVELOPING CAMPUS-BASED PORTFOLIOS

1.0 UNIT

Class hours: 1.0 Lecture

This course covers the basic as well as advanced features of campus-based e-portfolio (electronic portfolio) systems. E-portfolios can be used as a

repository to store and organize digital evidence of teaching and learning. The tools in the e-portfolio systems will be used to represent individual learning and competencies.
Transfer Credit: CSU

EDT 110 INTRODUCTION TO EDUCATIONAL TECHNOLOGY 2.0 UNITS

Class hours: 2.0 Lecture/0.1 Laboratory
Introduction to Educational Technology is designed to prepare future teachers with the understanding of how to utilize computers in the educational environment. Participants will learn basic computer terminology, fundamental Internet tools, basic word processing, the use of electronic spreadsheets and use of database management systems. A supportive learning community will be provided where future educators will learn skills in creating effective learning resources using suitable technologies.

Transfer Credit: CSU

EDT 111 WEB DESIGN FOR EDUCATORS 1.0 UNIT

Class hours: 1.0 Lecture
Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.
This course is for educators with little or no experience creating or designing web pages. Topics of instruction will be web concepts, principles of good web design, special populations compliance, and school web site planning and building. Other topics include educational applications of the World Wide Web, copyright, plagiarism, and security issues.

Transfer Credit: CSU

EDT 112 VIRTUAL CURRICULUM 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.
This course is intended to teach educators how to create conferenced and on-line (virtual) curriculum projects for use in the classroom and on the World Wide Web. Students in this course will be given guidelines for developing virtual museums, field trips, on-line exhibits, and exploratoriums from idea conception to the resulting conference or web pages for posting on the Internet.

Transfer Credit: CSU

EDT 114 MICROSOFT PRODUCER FOR EDUCATORS 2.0 UNITS

Class hours: 2.0 Lecture
Recommendation: EDT or EDT 51 and EDT 52 or EDT 53 and EDT 105 or equivalent with grades of Pass or "C" or higher.
This course covers the concepts and techniques for using Microsoft Producer. Students will learn to use Microsoft Producer while discovering practical and creative uses of the application to enhance existing and new PowerPoint presentations in teaching. Methods of integrating this software into the educational setting will be explored.

Transfer Credit: CSU

EDT 115 TECHNOLOGY INTEGRATION IN EDUCATION 1.0 UNIT

Class hours: 1.0 Lecture
Recommendation: EDT 50 OR EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course trains educators and prospective educators who wish to learn how to integrate technology into classroom teaching and learning. Topics include computer terminology, evaluation of digital media, locating technology resources for specific subject areas, adaptation of lesson plans to incorporate technology, and using multimedia in education. Other topics include impact of technology on education; past, current, and future technology trends, and copyright, plagiarism, and security issues.

Transfer Credit: CSU

EDT 119 HARDWARE AND SOFTWARE CONSIDERATIONS FOR EDUCATORS 1.0 UNIT

Class hours: 1.0 Lecture
Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course is for educators and prospective educators actively involved in the use, purchase and/or maintenance of computer hardware and software in the educational setting. Students will learn the functions of pertinent hardware, how to interface equipment to the computer, system requirements, and evaluation techniques. Students will learn to troubleshoot basic hardware, software, printing, and network problems. Maintaining appropriate maintenance and troubleshooting logs will be addressed. Technology plans and effective classroom management techniques using technology in a limited number of educational settings discussed.

Transfer Credit: CSU

EDT 120 EXPLORING ASSISTIVE TECHNOLOGY IN EDUCATION 2.0 UNITS

Class hours: 2.0 Lecture
Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course is intended to develop the sensitivity, skills and knowledge needed by teachers and others in the field of education to create an educational environment that is conducive to learning for students with disabilities. It will also be helpful for those who may have other learning challenges such as English second language learners. Students will investigate strategies for differentiating instruction for students with learning and other disabilities and challenges within the general educational environment. Through lecture and hands-on experience, participants will explore practical uses of software that can be applied to classroom learning materials to make those materials more accessible to students needing assistance.

Transfer Credit: CSU

EDT 121 USING HANDHELD COMPUTERS IN EDUCATION 2.0 UNITS

Class hours: 2.0 Lecture
Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course trains educators and prospective educators in the use of handheld computers in education to perform administrative, instructional, and other classroom functions. Specific topics include the basics of using Palm OS handhelds, as well as more advanced functions such as productivity tools, student information system tools, assessment tools, web clipping, e-books, science probes, and writing tools. Other topics include policy and management issues related to handhelds and forming a plan for a school's use of handhelds.

Transfer Credit: CSU

EDT 122 FUNDRAISING/GRANT WRITING FOR EDUCATORS 2.0 UNITS

Class hours: 2.0 Lecture
This course covers the basics of grant seeking, grant writing, and other forms of fundraising that will enable educators to obtain money for technology and other educational programs. The course will cover the process, structure, and skills to develop a conceptual framework for fundraising research, planning, writing skills and strategies. Budgetary considerations,

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budgetary planning, and presentation skills will also be addressed.

Transfer Credit: CSU

EDT 123 INTERNET TOOLS FOR EDUCATORS 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course covers some of the tools provided on the Internet for educators including blogs, wikis, dictionaries, reference citation makers, libraries, and online rubric creators. Students will learn to use these tools, while discovering practical and creative uses to enhance their teaching. Methods of integrating the tools into the educational setting will be explored.

Transfer Credit: CSU

EDT 125 FUND OF ONLINE TEACHING 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51, EDT 104, EDT 111, and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course is designed for educators and future educators who wish to learn the fundamentals of teaching online courses. Students will learn online course structures and delivery methods.

Transfer Credit: CSU

EDT 132 USING AUDIO IN THE CLASSROOM 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course covers the use of digital communication in education by creating and using digital music and other audio recordings in the classroom using audio editing software. Using digital music and voice recordings, students will learn to do the following: create, perform, and record original music for digital movies, podcasts, and slideshows; capture streaming audio; create audio files for slideshows; and capture and assess oral readings.

Transfer Credit: CSU

EDT 137 IMOVIE/MOVIE MAKER IN EDUCATION 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course covers the concepts and techniques for video editing using Apple's iMovie and/or Microsoft Movie Maker in education. Using these free movie editing software packages, students will learn to bring lessons to life by creating video "reports" to demonstrate abstract concepts through narration, video, music, and pictures. Methods of integrating these software programs into new and existing lesson plans will be explored.

Transfer Credit: CSU

EDT 138 TEACHING WITH CLAY ANIMATION 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course covers the concepts and techniques for creating animation using clay characters to enhance storytelling, creative writing, and visualization of mathematical and scientific concepts. Building upon the theories of multiple intelligences in learning, clay animation enhances student learning through a variety of methods.

Transfer Credit: CSU

EDT 150 PODCASTING IN EDUCATION 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: EDT 50 or EDT 51 and EDT 52 or EDT 53 or equivalent with grades of Pass or "C" or higher.

This course covers the concepts and techniques for creating web-based broadcasting, called podcasts, for educational purposes and making them available on the Internet. Podcasting is a way to post and distribute electronic media files online. Podcasting content, resources, hardware and software requirements, and procedures will be covered in addition to methods of integrating podcasts into educational course content.

Transfer Credit: CSU

EDT 170 MOODLE COURSE MANAGEMENT SYSTEM 2.0 UNITS

Class hours: 2.0 Lecture

This course covers the use of Moodle, a free, open source course management system. A course management system is software that helps to create an effective Internet-based learning environment using pedagogical principles. It also supports collaboration among students, faculty, administrators, and the community and can be used as a repository of materials.

Transfer Credit: CSU

EDT 171 SAKAI COURSE MANAGEMENT SYSTEM 2.0 UNITS

Class hours: 2.0 Lecture

This course covers the use of Sakai, a free, open source course management system. A course management system is software that helps to create an effective Internet-based learning environment using pedagogical principles. It also supports collaboration among students, faculty, administrators, and the community and can be used as a repository of materials.

Transfer Credit: CSU

ELECTRONICS

(Technology Division)

EL 43 (Not Degree Applicable) ELECTRONIC OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Electronics work experience 73 or 20 hours of employment per week for Electronics work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Electronics vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Electronics students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. This course may be taken a maximum of 4 times.

EL 44 (Not Degree Applicable) ELECTRONIC OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Electronics work experience 73 or 20 hours of employment per week for Electronics work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Electronics vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Electronics students to apply skills and knowledge learned in the

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classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. This course may be taken a maximum of 4 times.

EL 50 ELECTRONIC TESTS AND MEASUREMENTS 1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
Recommendation: EL 100 or equivalent with a grade of Pass or "C" or higher.
This is a course in the use of electronic testing equipment. Topics include measurement theory, techniques, limitations of test equipment, and interpretation of test results. This course may be taken a maximum of 2 times.

EL 56 PROGRAMMABLE LOGIC CONTROLLERS 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: EL 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.
This course introduces the student to programmable logic controllers (PLC). Topics to be discussed include history of the PLC, ladder diagrams, programming techniques, programming languages, installation, troubleshooting, and maintenance of the PLC.

EL 60 COMPUTER AIDED CIRCUIT ANALYSIS 1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
Prerequisite: EL 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.
This course is an introduction to the fundamentals of computer-aided circuit simulation and electronic design automation (EDA). The emphasis is on the use of the computer in designing and testing electronic circuits for more productive hardware construction. This course may be taken a maximum of 3 times.

EL 66 FUNDAMENTLS OF ELECTRICITY 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: EL 100 and TM 50 or equivalent with grades of Pass or "C" or higher.
This course introduces the student to the principles of electrical power. Topics to be discussed include electrical safety, generators, motors, wiring, National Electrical Code (NEC), installation, and maintenance.

EL 76 INDUSTRIAL ELECTRONIC CONTROL 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: EL 100 or equivalent with a grade of Pass or "C" or higher.
This is a course in the application of electronic circuitry to industrial process control. Topics to be discussed include mechanical systems, sensors, motors, actuators, feedback control, switching circuits, relay control, power-control semiconductors and interfacing of electronic circuits to mechanical, hydraulic and pneumatic systems.

EL 86 ELECTRIC MOTOR CONTROL 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Prerequisite: EL 100 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.
This course presents the principles of motor control. Topics to be discussed include safety, classifications of motors, speed control, and motor applications.

EL 100 BASIC ELECTRONICS 4.0 UNITS

Class hours: 4.0 Lecture
This is a survey course intended for non-electronics majors. It satisfies the general requirements in electronics for Industrial Arts Teacher Training at state universities. It is also an acceptable substitute for the electronics background required as a prerequisite to enter the electronics program. This course will cover DC and AC electrical theory, magnetism, transistors, and integrated circuits. Basic concepts of electronic devices, circuits, and systems will be demonstrated.

Transfer Credit: CSU

EL 110 PRINCIPLES OF DC ELECTRONICS 4.0 UNITS

Class hours: 4.0 Lecture
This course covers atomic structure and the electron theory, Ohm's and Kirchhoff's

laws for DC circuits, magnetism, inductance, capacitance, DC measurements, and DC network analysis.

Transfer Credit: CSU

EL 110L DC ELECTRONICS LABORATORY 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: EL 200 or equivalent with a grade of Credit or "C" or higher, or concurrent enrollment.

Recommendation: EL 100.

Experiments performed in this course are planned to accompany the lectures in EL 110. The student learns to use instrumentation in the measurement and analysis of DC circuits. Color code, symbols, schematics and assembly techniques are introduced.

Transfer Credit: CSU

EL 120 PRINCIPLES OF AC ELECTRONICS 4.0 UNITS

Class hours: 4.0 Lecture
Prerequisite: EL 110 or equivalent with a grade of Pass or "C" or higher.

This course covers the analysis of AC circuits using both resistive and reactive components. The concept of resonance and filter circuits is introduced and network theorems are studied.

Transfer Credit: CSU

EL 120L AC ELECTRONICS LABORATORY 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: EL 110L or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

Corequisite: Concurrent enrollment or completion of EL 120 with a grade of Credit or "C" or higher.

Recommendation: EL 50, EL 60, TM 50.

Experiments performed in this course are planned to accompany the lectures in EL 120 (Principles of AC Electronics). The student learns to use electronic laboratory instruments in the measurement and analysis of AC circuits.

Transfer Credit: CSU

EL 134 DIGITAL CIRCUIT AND COMPUTER LOGIC 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: EL 100 or equivalent with a grade of Pass or "C" or higher.

Corequisite: EL 134L

Recommendation: EL 60.

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This course introduces the student to the fundamentals of digital electronics. The content includes number systems, Boolean algebra, combinational and sequential logic circuits, memory systems, and programmable logic devices that include GALs, PALs, FPGA, VHDL, CPLD, and interfacing techniques. TTL integrated circuits are used in the laboratory to implement student-designed projects.

Transfer Credit: CSU

EL 134L

DIGITAL CIRCUITS AND COMPUTER LOGIC LABORATORY

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: EL 134 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

Recommendation: TM 50, EL 60 and EL 100.

This is a laboratory course designed to support the concepts learned in EL 134, Digital Circuits and Computer Logic. Experiments are used to apply the use of number systems, Boolean algebra, and logic symbols to the design and construction of combinational and sequential digital electronic circuits. Basic multivibrator, memory, microprocessor, and programmable logic devices including GALs, PALs, FPGAs, and CPLD and interfacing techniques will also be covered. Students will use hardware description languages such as CUPL and VHDL. Design projects will be constructed using integrated circuits and computer simulations.

Transfer Credit: CSU

EL 200

SEMI-CONDUCTOR ELECTRONICS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: EL 120 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

Recommendation: EL 100 or equivalent with a grade of Pass or "C" or higher.

This course covers the theory of operation of semiconductor devices and development and analysis of the basic circuits employed in analog electronic systems.

Transfer Credit: CSU

EL 200L

SEMI-CONDUCTOR ELECTRONICS LABORATORY

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: EL 120L or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

Corequisite: Concurrent enrollment or completion of EL 200 or equivalent with a grade of Pass or "C" or higher.

Recommendation: EL 50, EL 60.

Experiments planned to accompany the lectures in EL 200 covering semiconductor diodes, transistors and transistor amplifiers are included in this course.

Transfer Credit: CSU

EL 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

EL 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ENERGY

(Science, Engineering, Mathematics Division)

ENGY 110

ENERGY AND THE WAY WE LIVE

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of

the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Math Placement Process or MATH 40 or equivalent with a grade of Pass or "C" or higher.

This introductory course describes the importance of energy in natural systems, energy resources, and utilization of energy by Man in modern economies. The potential for conservation and use of alternatives to the fossil fuels is studied.

Transfer Credit: CSU; UC

ENGY 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ENGY 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ENGINEERING

(Science, Engineering, Mathematics Division)

ENGR 112 (CAN ENGR 2) ENGINEERING GRAPHICS 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: MATH 140 or equivalent with a grade of Pass or "C" or higher.
The principles of the graphic language of the engineer expressed through sketching and instrument drawings covering orthographic projection, primary and secondary auxiliary views, dimensioning, and the working drawing. The descriptive geometry methods applied to points, lines, planes, intersections, warped surfaces, developments, and graphical mathematics. Required of all engineering students.

Transfer Credit: CSU; UC

ENGR 123 DESCRIPTIVE GEOMETRY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: MATH 140 or TM 50 and ENGT 153 or equivalent with grades of Pass or "C" or higher.

This course covers the fundamental principles of descriptive geometry. The course emphasizes applications of these principles to solutions of three dimensional engineering and design technology problems.

Transfer Credit: CSU; UC

ENGR 215 (CAN ENGR 12) ENGINEERING ELECTRIC CIRCUITS 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: PHYS 202 or equivalent with a grade of Pass or "C" or higher.

This course includes the study of the fundamental principles essential to understanding electric circuits. These include Kirchhoff's Laws, Ohm's Law, network theorems, Mesh and Nodal analysis, Thevenin and Norton equivalent, inductors and capacitors, resistor capacitor and resistor coil circuits, and sinusoidal steady-state analysis and calculations.

Transfer Credit: CSU; UC

ENGR 235 (CAN ENGR 8) STATICS 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: MATH 170 and PHYS 101 or PHYS 201 or equivalent with grades of Pass or "C" or higher.

This course covers the part of the science of mechanics that deals with external force systems and equilibrium conditions on bodies.

Transfer Credit: CSU; UC

ENGINEERING DESIGN TECHNOLOGY

(Technology Division)

ENGT 116 BLUEPRINT READING FOR MACHINE TRADES 2.0 UNITS

Class hours: 1.5 Lecture/1.5 Laboratory
This course is a study of working drawings and blueprints used in engineering and manufacturing. Emphasis is placed on the ability to visualize and interpret typical drawings. Research is required into standards, specifications, procedures, bulletins, and techniques, which are a parallel part of the shop drawing system. It is intended to prepare the student for accurate interpretation of drawings in order to carry out the applications required or use them as appropriate engineering and manufacturing references. (Formerly ENGT 16)

Transfer Credit: CSU

ENGT 117 GEOMETRICAL DIMENSIONING AND TOLERANCING 2.0 UNITS

Class hours: 2.0 Lecture
Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher.

This is a basic course in datums, modifiers, form tolerancing, positional tolerance, and coordinate tolerance conversion. It will introduce students to the state of the art in dimensioning and tolerancing used in industry.

Transfer Credit: CSU

ENGT 131 DESIGN FUNDAMENTALS INCLUDING AUTOCAD 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
This course stresses proper use of manual drafting instruments with an introduction to AutoCAD software for students who have had no high school or no industry experience on manual mechanical drafting. Manual drafting basic skills cover lettering text, geometric construction, isometric drawing, orthographic projection, dimensions, single auxiliary views, sectioning, and conventional practices.

Transfer Credit: CSU

ENGT 133 SHEET METAL LAYOUT AND APPLICATIONS WITH INVENTOR 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course will familiarize students with sheet metal layout involving triangulation, bend allowances for pattern development, and manufacturing processes for sheet metal. It will also include practical modern day applications in architecture, automotive, advertising displays and other areas affected by this technology.

Transfer Credit: CSU

ENGT 138 AUTOCAD 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: ENGT 131 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course focuses on AutoCAD software for students with previous manual drafting knowledge. It includes drawing preparations in 2-D and 3-D, modify, blocks, and tools. It will prepare students to operate the systems and understand the applications of computer graphics utilizing industry standards. Students will learn to use an interactive computer graphics system to prepare drawings on personal computers. Drawings will be stored and retrieved from digital storage, enabling students to produce commercial quality copies using computer-driven plotter and printer.

Transfer Credit: CSU; UC

ENGT 151 ADVANCED APPLICATIONS OF COMPUTER AIDED DESIGN W/AUTOCAD 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course will assist students in the advanced applications of Computer Aided Design. They will utilize the AutoCAD system for customization, symbol libraries, menu development, and general applications in their particular fields.

Transfer Credit: CSU

ENGT 153 MACHINE DESIGN WITH AUTOCAD 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Announcement of Courses

Recommendation: TM 50 or one year of mechanical drawing or verifiable work experience and or satisfactory score on Math Placement Test or equivalent.

This course covers auxiliary projections, sections, dimensions, threads and fasteners, working drawings of machine parts including details and assemblies, basic gear and cam layout, and simple mechanisms.

Transfer Credit: CSU

ENGT 160

AUTODESK MAP 3-D 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher

This course introduces students to AutoDesk Map 3-D software, which delivers all of the power, fluency, and connectivity of AutoCAD software. Content will include analysis and productivity tools to create, maintain, and produce maps in a precise graphical environment. Students will use AutoDesk Map 3-D software features to enhance productivity of comprehensive automated mapping tools built in it for engineers, planners, utility managers and anyone who creates and maintains maps.

Transfer Credit: CSU

ENGT 237

GRAPHICAL STATICS AND STRENGTH OF MATERIALS 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Recommendation: TM 50 or equivalent.

This is a course in the fundamental principles of graphical statics and strength of materials and their applications to the solutions of typical force systems and equilibrium problems. Applications are made in the fields of drafting, tool engineering, and similar areas using elementary algebra and right angle trigonometry in problem solving.

Transfer Credit: CSU

ENGT 255

AUTODESK VIZ RENDERING AND SOLID MODELING APPLICATIONS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Recommendation: ENGT 153 or equivalent.

This course will assist students in creating advanced applications of solid modeling and applying shading and rendering techniques utilizing AutoDesk VIZ system for basic theory

as well as applications to their particular fields.

Transfer Credit: CSU

ENGT 256

INTRODUCTION TO AUTODESK MECHANICAL DESKTOP 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

Recommendation: MTT 100 and MFGT 100 or equivalent with grades of Pass or "C" or higher.

This course assists students in creating three-dimensional parametric part modeling, assembly modeling, and surface modeling designs. Students receive instruction utilizing the most recent release of AutoCAD interfacing with Autodesk Mechanical Desktop.

Transfer Credit: CSU

ENGT 257

AUTODESK INVENTOR 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course assists students in advanced applications of three-dimensional parametric part modeling, assembly modeling, surface modeling, and bills of materials. Students receive instruction utilizing the most recent release of Autodesk Inventor.

Transfer Credit: CSU

ENGT 258

DESIGN AND PRODUCTION TECHNOLOGY WITH AUTOCAD 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 153 or equivalent with grade of Pass or "C" or higher, or appropriate work experience.

This course is a study of modern techniques of design using AutoCAD software. Instruction includes the production, operation and process materials selection for AutoCAD plan. Planning, scheduling and cost performance are used to implement design solutions.

Transfer Credit: CSU

ENGT 259

SOLIDWORKS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course assists students in creating three-dimensional (3-D) parametric part modeling, assembly modeling, surface modeling, and

bills of materials. Students receive instruction utilizing the most recent release of SolidWorks software.

Transfer Credit: CSU

ENGT 265

CATIA I 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 138 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course focuses on the CATIA CAD/CAM system highlighting system structure and 3-D geometry creation and manipulation. Based on wire frame profiles created on sketch planes, 3-D parametric solid models are produced. Also covered is the use of parts for assembly modeling, creation of working drawings, and bills of material for the engineering design industry.

Transfer Credit: CSU

ENGT 266

CATIA II 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: ENGT 265 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course deals with advanced applications of the latest release of CATIA, such as generative sheet metal design, assembly analysis, generative stress analysis, design and creation of complex parts and assemblies, and surface modeling and lofting for computer-aided engineering (CAE) functions.

Transfer Credit: CSU

ENGT 298

DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

Announcement of Courses

ENGT 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ENGLISH

(Liberal Arts Division)

ENGL 15 (Not Degree Applicable)

BEGINNING WRITING FOR

NATIVE ENGLISH SPEAKERS

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: Satisfactory Completion of the English Placement Process.

This beginning course is designed for native English speakers already able to understand and speak the language. It is intended to reduce beginning writing students' fear and anxiety about writing. This course may be taken a maximum of 2 times.

ENGL 20 (Not Degree Applicable)

BASIC WRITING

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 15 or ESL 200 or equivalent with a grade of Pass or "C" or higher.

This course introduces students to the writing process as a means of developing ideas into clear, correct, and effective writing. The course concentrates on short essay writing in accord with the conventions of standard English.

ENGL 22 (Not Degree Applicable)

SPELLING BASICS

1.0 UNIT

Class hours: 1.0 Lecture

This course provides students with instruction in editing their own writing for standard spelling. This course is offered on a credit/no credit basis only.

ENGL 30 (Not Degree Applicable)

GRAMMAR BASICS

1.0 UNIT

Class hours: 1.0 Lecture

This course provides students with instruction in editing their own writing for standard grammar. This course is offered on a credit/no credit basis only.

ENGL 31 (Not Degree Applicable)

PUNCTUATION BASICS

1.0 UNIT

Class hours: 1.0 Lecture

This course provides students with instruction in editing their own writing for standard punctuation. This course is offered on a credit/no credit basis only.

ENGL 32 (Not Degree Applicable)

SPELLING

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to help students overcome deficiencies in spelling by learning the patterns of language through a step by step instructional approach. The student learns to apply principles of spelling to groups of English words, from simple to complex.

ENGL 33 (Not Degree Applicable)

INDIVIDUALIZED WRITING

0.5 UNIT

Class hours: 1.5 Laboratory

This course assists students in improving and expanding writing and thinking skills needed for successful communication in their careers/and or professions. The course is taught by diagnostic-prescriptive methods, technology mediated instruction, and individualized instruction. This course may be taken a maximum of 4 times.

ENGL 50A

ENGLISH GRAMMAR

3.0 UNITS

Class hours: 3.0 Lecture

Students will study the fundamentals of English grammar, with an emphasis on parts of speech, phrases and clauses, sentence structure, and correct usage. Class hours may be used to qualify a student for the certified shorthand reporters' examination.

ENGL 50B

ADVANCED GRAMMAR

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 50A or equivalent with a grade of Pass or "C" or higher.

This course further develops the student's ability to analyze the structure of English sentences, to recognize and correct errors in usage, punctuation and grammar, and to generate sentences of varied complexity. Class hours may be used to qualify a student for the certified shorthand reporters' examination.

ENGL 52

INTRODUCTION TO COLLEGE

COMPOSITION

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher.

This course develops the students' ability to write clearly, effectively, and correctly by guiding students through the writing process. Students write a series of compositions that integrate critical thinking, evaluative writing, and library research.

ENGL 53

PUNCTUATION, CAPITALIZATION, AND SPELLING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course gives comprehensive instruction in the preparation of written materials, with particular emphasis on punctuation, capitalization, abbreviations, numbers, spelling, and manuscript formatting. Class hours may be used to qualify a student for the certified shorthand reporters' examination.

ENGL 100 (CAN ENGL 2)

FRESHMAN COMPOSITION

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course guides the student through the writing process to develop expository prose with an emphasis on effective organization and on correctness. (It meets transfer requirements at four-year institutions.)

Transfer Credit: CSU; UC

ENGL 101

CRITICAL THINKING

THROUGH LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

In this course students apply critical thinking skills, close textual analysis, and research practices in writing analytic, argumentative essays about literary fiction, poetry, and drama.

Transfer Credit: CSU; UC

Announcement of Courses

ENGL 102 (CAN ENGL 4) FRESHMAN COMPOSITION AND LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course continues to develop and improve students' skills in composition and critical analysis by introducing the study of fiction, poetry, and drama, produced by an enlarged canon of authors who reflect culturally diverse backgrounds as the subject for writing assignments.

Transfer Credit: CSU; UC

ENGL 103 CRITICAL AND ARGUMENTATIVE WRITING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher or a satisfactory completion of the Advanced Placement English Examination of the College Entrance Examination Board.

This course develops critical thinking, reading, and writing beyond the level achieved in English 100 (Freshman Composition). The course focuses on the development of logical reasoning and analytical and argumentative writing skills.

Transfer Credit: CSU; UC

ENGL 106 INTRODUCTION TO LINGUISTICS

3.0 UNITS

Class hours: 3.0 Lecture

This course is the study of language structure and language use. This includes the historical development of language families, the universal properties of these languages, and the individual speech acts that derive from a given language.

Transfer Credit: CSU; UC

ENGL 107 VOCABULARY BUILDING

3.0 UNITS

Class hours: 3.0 Lecture

This is a course in vocabulary building that emphasizes the structural approach to vocabulary study. Emphasis is placed on the prefixes, roots, and suffixes as they combine to form words, and on the meanings and patterns of meanings formed by words in the context of a sentence and paragraph.

Transfer Credit: CSU

ENGL 108 VOCABULARY BUILDING FOR PROFESSIONALS

2.0 UNITS

Class hours: 2.0 Lecture

This course is designed to further an under-

standing of word origins, roots and affixes, with particular attention to terms used in business and the professional disciplines. Class hours may be used to qualify a student for the certified shorthand reporters' examination.

Transfer Credit: CSU

ENGL 155 TECHNICAL WRITING

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course enhances students' ability to write clear, effective, and correct technical prose. Students write a series of technical instructions, reports, manuals, and proposals that integrate critical thinking, evaluation, and research. Students will produce a letter of application and resume for technical fields.

Transfer Credit: CSU

ENGL 201 TUTORING WRITING

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course provides essential training and experience for students who aspire to tutor writing, teach English or basic writing skills, or improve their own writing. Students learn the fundamentals of assisting peers with writing tasks. This course includes a lab component during which the student will get firsthand experience with tutoring students about writing.

Transfer Credit: CSU

ENGL 221A LITERATURE IN THE BIBLE: HEBREW SCRIPTURES

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a general introduction to the literature composing the Hebrew Scriptures (more familiarly known as the Old Testament) in translation. Emphasis will be on understanding the Bible as a literary document through literary analysis, including the study of biblical genres such as history, poetry, narrative, drama, and homiletic, prophetic, apocalyptic and wisdom literature.

Transfer Credit: CSU; UC

ENGL 221B LITERATURE IN THE BIBLE: CHRISTIAN SCRIPTURES

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies the New Testament in English in translation as a literary document. Emphasis is on understanding the literary nature of the Bible through literary analysis, including the study of literary genres such as poetry, epistolary, narrative, drama and biography.

Transfer Credit: CSU; UC

ENGL 222 CHILDREN'S LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

The course is designed to survey children's literature with special emphasis on the classics. It concentrates on the fable, folktales, fairy tales and the children's novel.

Transfer Credit: CSU; UC

ENGL 223 CHICANA/CHICANO LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a study of selected representative literature of Chicano authors. Selected works will be drawn from at least three of the following genres: the novel, the short story, poetry, drama, autobiography, and the essay.

Transfer Credit: CSU; UC

ENGL 224 NATIVE AMERICAN LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a study of selected representative literature of Native North American Indian writers. The genres included are the novel, the short story, poetry, autobiography, and essay.

Transfer Credit: CSU; UC

Announcement of Courses

ENGL 225 **MEXICAN LITERATURE** **IN TRANSLATION** **3.0 UNITS**

Class hours: 3.0 Lecture

A one-semester course to survey Mexican literature in translation. The genres included will be the novel, the short story, the poem, the essay, and the song.

Transfer Credit: CSU; UC

ENGL 226 **AFRICAN-AMERICAN** **LITERATURE** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a study of selected or representative literature of African and African American authors, their viewpoints, styles, forms, and themes. The genres included will be the novel, the short story, drama, poetry, autobiography, essays, and oral performance. Modern and contemporary authors will be highlighted.

Transfer Credit: CSU; UC

ENGL 227 **CURRENT LITERATURE** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a study of literature currently important or currently popular and not ordinarily studied in the regular departmental curriculum. Specific topics, such as best sellers, science fiction, campus classics, California literature, Native American literature, or modern literature, will be announced in the schedule of classes. It may be repeated with different topics for a maximum of 6 units.

Transfer Credit: CSU; UC

ENGL 228 **SHAKESPEARE'S PLAYS** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a general introduction to Shakespeare's plays. Representative selections from the comedies, histories, tragedies, and romances are studied. The emphasis is on discussion and analysis of Shakespeare's relevance to his world and to ours. (This is not an acting class.)

Transfer Credit: CSU; UC

ENGL 229 **AUTOBIOGRAPHICAL** **LITERATURE/WRITING** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course will advance composition skills in the special area of autobiography through journal writing and the development of a significant autobiography. Autobiographical works by important writers will be read for modeling purposes.

Transfer Credit: CSU; UC

ENGL 230A (CAN ENGL 14) (CAN ENGL SEQ C) **INTRODUCTION TO** **AMERICAN LITERATURE** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies the representative works of American literature from 1608-1870. Selected works will be drawn from the four major literary periods: Puritan, Enlightenment/Revolutionary, Romantic, and early Realism.

Transfer Credit: CSU; UC

ENGL 230B (CAN ENGL 16) (CAN ENGL SEQ C) **INTRODUCTION TO** **AMERICAN LITERATURE** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies the representative works of American literature from 1870-1990's. Selected works will be drawn from the four major literary periods: Realism, Naturalism, Modernism, and Postmodernism.

Transfer Credit: CSU; UC

ENGL 232 **READINGS IN POETRY** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course introduces students to the basic elements and functions of poetry. The fundamentals of poetics will be covered from Aristotle to new media and digital mediations. A representative poet will be studied in depth.

Transfer Credit: CSU; UC

ENGL 233 **READINGS IN THE NOVEL** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This is a course in the novel emphasizing structure, theme and style. Outstanding Continental, English and American novels are studied.

Transfer Credit: CSU; UC

ENGL 234 **READINGS IN SHORT** **FICTION** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies the structure and techniques of the short story and the novelette. Emphasis is on critical analysis of selected American, European and World short fiction throughout time, including contemporary works.

Transfer Credit: CSU; UC

ENGL 235 **READINGS IN THE DRAMA** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies the drama from its ancient Greek origins to its present-day expressions. It emphasizes both content and form and highlights the literary techniques specific to this genre of literature.

Transfer Credit: CSU; UC

ENGL 236 **STUDIES IN WOMEN'S** **LITERATURE** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a survey of literature by women reflecting women's changing roles and identities in society in various historical, political and cultural settings. Works studied are drawn from the genres of poetry, fiction, drama, essays and journals.

Transfer Credit: CSU; UC

Announcement of Courses

ENGL 237

ASIAN AMERICAN LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course offers a study of selected representative literature written by Americans of Asian or Pacific Island descent. Genres and their historical context include the novel, drama, short story, and poetry. Memoirs and essays may also be included.

Transfer Credit: CSU; UC

ENGL 240

CREATIVE WRITING

(CAN ENGL 6)

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course provides an opportunity for students to explore their interest in literary creativity by writing original short fiction, poetry, play or screenplay, or magazine article(s). Writers will gain understanding of each literary type, have the opportunity to create in each area, and be afforded the chance to have their work critiqued in a workshop setting. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ENGL 241

SCREENWRITING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course provides an opportunity for students to develop a screenplay for television or motion pictures. Students learn the craft of screenwriting by studying published scripts, movies, and TV shows and by writing synopses, treatments, scenes, and a production-worthy screenplay. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

ENGL 245

WORLD MYTHOLOGY AS LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies the developments, structures, and techniques of comparable myths from a variety of cultures. Emphasis is on critical analysis of selected creation, hero, and fertility myths as literary expression.

Transfer Credit: CSU; UC

ENGL 246A (CAN ENGL 8) (CAN ENGL SEQ B)

SURVEY OF ENGLISH LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course studies English literature from the Anglo-Saxon period to the Romantic Movement. Emphasis is on the various themes, forms, and trends in English literature, and how they prefigured Romanticism and later movements.

Transfer Credit: CSU; UC

ENGL 246B (CAN ENGL 10) (CAN ENGL SEQ B)

SURVEY OF ENGLISH LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course studies English literature from the Romantic Movement to the present day. It emphasizes the various themes, forms and trends in English literature.

Transfer Credit: CSU; UC

ENGL 248A

MASTERPIECES OF WORLD LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies Western and world literature from the ancient world to the 17th century. Various themes, forms and trends are examined in an effort to understand the universal problems of mankind.

Transfer Credit: CSU; UC

ENGL 248B

MASTERPIECES OF WORLD LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies Western and world literature from the 17th century to the 20th century. Various themes, forms and trends are studied in an effort to examine the universal problems of mankind.

Transfer Credit: CSU; UC

ENGL 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ENGL 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ENGLISH AS A SECOND LANGUAGE

(Liberal Arts Division)

ESL 1 (Not Degree Applicable)

ENGLISH AS A SECOND

LANGUAGE: INTRODUCTION 5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

This course is designed to prepare the limited English-speaking person for college ESL study. It bridges the gap between life-skills English and beginning college ESL courses. It is multi-skills oriented, aiming at speaking, listening, reading, writing, and grammar skills.

Announcement of Courses

ESL 2 (Not Degree Applicable) INTERMEDIATE SKILLS FOR THE ESL STUDENT

5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory
Prerequisite: Satisfactory completion of the English As a Second Language Placement Process or ESL 1 or equivalent with a grade of Pass or "C" or higher.

This course introduces and reviews basic structures of English and provides opportunity for practice in speech and writing. Texts and supplemental materials are used as well as students' personal experiences. English sounds are introduced and practiced. Writing and reading elements of the course stress comprehension.

ESL 3 (Not Degree Applicable) ADVANCE INTERMEDIATE SKILLS-ESL STUDENT

5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory
Prerequisite: Satisfactory completion of the English As A Second Language Placement Process or ESL 2 or equivalent with a grade of Pass or "C" or higher.

This course introduces advanced and high-frequency structures of English and provides practice of these structures. Texts and supplemental materials are used as well as the students' environment. Sounds continue to be practiced orally. Writing and reading reinforce comprehension.

ESL 10 (Not Degree Applicable) ESL SPEAKING AND LISTENING

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Students practice oral communication and listening skills. Emphasis is on fluency, correct word usage, and syntax. Topics range from everyday situations to elementary abstractions.

ESL 11 (Not Degree Applicable) ESL FUNDAMENTAL READING SKILLS

1.5 UNITS

Class hours: 1.5 Lecture
This course is designed for ESL students who wish to improve in fundamental reading skills. The emphasis will be on phonics, word recognition skills, and basic thinking as they relate to reading.

ESL 12 (Not Degree Applicable) ESL PRONUNCIATION

1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
This course aids the students in reproducing the sounds of American English accurately. Attention focuses on the individual needs of the students. This course may be taken for a maximum of 2 times.

ESL 14 (Not Degree Applicable) PRONUNCIATION PLUS

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
This is an intensive pronunciation course that includes practice with the sounds of American English in all contexts: syllables, words, sentences, and conversation and an in-depth practice of the stress and international patterns of American English. Enunciation (production of sounds with clarity and precision) of American English in varying contexts will be stressed. Each student will be evaluated and assisted with his/her pronunciation difficulties. This course may be taken for a maximum of 2 times.

ESL 15 (Not Degree Applicable) ESL INDIVIDUALIZED COMMUNICATION FOR ACADEMIC SUCCESS

0.5 UNIT

Class hours: 2.0 Laboratory
This course is intended for ESL students who need to improve their speaking and listening skills to transition from non-credit to credit academic college-level courses. Coursework consists of a variety of self-study modules and includes role-playing situations for practice of actual classroom situations. Aural and oral communication skills are emphasized. The individual instructor selects topics that include academic vocabulary used in college settings, college instructor expectations, and explanation of cultural differences in relation to the college setting. This course may be taken a maximum of 4 times.

ESL 20 (Not Degree Applicable)

ESL SPEAKING AND LISTENING

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: ESL 10 or equivalent with a grade of Credit or "C" or higher.

This course is a continuation of ESL 10. Students practice oral communication and listening skills. Fluency, correct usage, and syntax are emphasized. Topics are of a more abstract nature.

ESL 21A (Not Degree Applicable) ESL INTERMEDIATE VOCABULARY

3.0 UNITS

Class hours: 3.0 Lecture
This course is for ESL students who wish to improve vocabulary skills. Emphasis is on building vocabulary, dictionary skills, and word recognition skills to be used in everyday language and college courses. Students will be introduced to the most frequently used English words and will also learn how to infer meaning from context.

ESL 21B (Not Degree Applicable) ESL ADVANCED VOCABULARY

3.0 UNITS

Class hours: 3.0 Lecture
This course is for advanced ESL students who wish to improve vocabulary skills at a level beyond that of the intermediate. The emphasis is on general and specialized vocabulary development, advanced dictionary skills, word recognition skills, improvement of sight vocabulary, and application of advanced vocabulary in context techniques.

ESL 22 (Not Degree Applicable)

ESL ORAL COMMUNICATION

1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
This course identifies and improves the production of American speech sounds. Students prepare, practice and present various oral messages. Emphasis is on stress and intonation. Topics center on students' needs and personal experiences. This course may be taken for a maximum of 2 times.

ESL 23 (Not Degree Applicable)

ESL SPELLING

1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
This course introduces basic spelling rules and provides students with the opportunity for practice orally and in writing. Texts and supplemental materials will be used to reinforce the relationship between oral and written expression. This course may be taken for a maximum of 2 times.

ESL 31 (Not Degree Applicable)

ESL READING

1.5 UNITS

Class hours: 1.5 Lecture
This course improves the literal, interpretive and critical comprehension skills of the students. Emphasis is on identifying main ideas and significant details, sequence of relationships, inferences of fact and tone, figurative language, and propaganda.

ESL 32 (Not Degree Applicable)

AMERICAN EXPRESSIONS

AND CULTURE

1.5 UNITS

Class hours: 1.5 Lecture
Students study American expressions and American social customs. Students incorporate common expressions in their conversation and writing. Social customs, such as those regarding time, dress, guest behavior, gestures, and selected public encounters, are discussed.

Announcement of Courses

ESL 33 (Not Degree Applicable)

ENGLISH FOR SPECIFIC PURPOSES

1.5 UNITS

Class hours: 1.5 Lecture

This course is for students who need work in oral and written English skills in their field. It provides an opportunity to become familiar with situations particular to their field. This course may be taken for a maximum of 2 times.

ESL 34 (Not Degree Applicable)

ESL STUDY SKILLS

1.5 UNITS

Class hours: 1.5 Lecture

This course is for the student who plans on entering college classes and wants to improve listening skills and learning techniques. Emphasis is on methods for reading text books efficiently, taking notes, understanding textbook assignments, and preparing for examinations.

ESL 35 (Not Degree Applicable)

EDITING ADVANCED GRAMMAR/SYNTAX

1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory

This course is designed for the advanced ESL students in writing courses who need help with grammar trouble spots that cause difficulties in writing. Rather than provide English grammar review, the course concentrates on rules to help the student apply general principles. It will aid in finding ways to examine and evaluate writing in terms of grammatical accuracy. This course may be taken for a maximum of 4 times.

ESL 100

ESL WRITING AND STRUCTURE

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: Satisfactory completion of the English As A Second Language Placement Process or ESL 3 or equivalent with a grade of Pass or "C" or higher.

This course reviews syntax and sentence structure. Students write complex sentences in imitative and original essays. Written summaries are also included.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these ESL courses with #'s combined: maximum credit, 8 units.*

ESL 200

ESL WRITING AND STRUCTURE

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: Satisfactory completion of the English As A Second Language Placement Process or ESL 100 or equivalent with a grade of Pass or "C" or higher.

Students study the sentence in context. They learn to eliminate mechanical errors and faulty sentence structure from their writing. Students review grammatical structures and punctuation. They write original paragraphs based on personal experience and on ideas drawn from supplemental materials.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these ESL courses with #'s combined: maximum credit, 8 units.*

ESL 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ESL 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

ENVIRONMENTAL POLICY

(Science, Engineering, Mathematics Division)

ENVS 200

ENVIRONMENTAL POLICY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: BIOL 105 or GEOG 103 or equivalent with a grade of Pass or "C" or higher.

This course presents the history, current status, and future of environmental issues, with special emphasis on California. The biological, geological, and geographical aspects of water quality, air quality, energy, land use, and the coastal environment will be examined, as well as the policies used to manage them. The course requires one field trip.

Transfer Credit: CSU

FINANCE

(Business Division)

FIN 50

ELECTRONIC CALCULATORS/ BUSINESS APPLICATIONS

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to teach students how to properly operate electronic calculators. Students will learn how electronic display calculators work, how to properly enter data using the ten-key keyboard, and how electronic calculators are used in business to solve practical problems. Techniques learned in this class can be applied to data processing and accounting classes. (Formerly BUSF 50)

FIN 51

RETIREMENT PLANNING AND INVESTING

1.5 UNITS

Class hours: 1.5 Lecture

This course introduces methods of computing amounts to be saved and invested in order to fund retirement. The course also discusses various retirement plans available. Additionally, students will learn techniques to research and evaluate mutual fund investment opportunities. (Formerly BUSF 51)

FIN 52

BUSINESS MATHEMATICS FOR ACCOUNTING APPLICATIONS

1.5 UNITS

Class hours: 1.5 Lecture

This course is designed to teach students basic mathematical calculations used in business, finance, and accounting and introduces them to the IBM compatible computer and standard spreadsheet software. Topics covered

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include fractions and percentages, sales and purchasing cycles, sales tax, markups and markdowns, simple and compound interest, and finance charges. (Formerly BUSF 52)

FIN 125

PERSONAL FINANCE 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to empower individuals with various tools to manage their money and make sound lifelong financial decisions. Students will understand the social and psychological issues related to money and learn established measurement techniques to analyze, plan, and manage their financial lives. Topics include financial planning, income and expense management, investment analysis, retirement planning, consumerism, insurance, estate planning, home ownership, and credit management. (Formerly BUSF 125)

Transfer Credit: CSU

FIN 126

INTRODUCTION TO STOCK MARKET AND INVESTMENTS 3.0 UNITS

Class hours: 3.0 Lecture

This course will cover the following subject areas: how to invest in the stock market; the various kinds of stocks, bonds, warrants, and rights; investment objectives; investment systems; the Broker's part in investment; stock exchanges; how stocks are traded and reported in the newspaper; investment vocabulary, mutual funds, and investment companies. (Formerly BUSF 126)

Transfer Credit: CSU

FRENCH

(Liberal Arts Division)

FREN 101 (CAN FREN 2) (CAN FREN SEQ A) ELEMENTARY FRENCH 5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

This beginning French course emphasizes listening, speaking, reading and writing and helps to develop the appreciation of cultural diversity through the study of differences and similarities between cultures.

Transfer Credit: CSU; UC

FREN 102 (CAN FREN 4) (CAN FREN SEQ A) ELEMENTARY FRENCH 5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: FREN 101 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the study of the basic principles of French with an

emphasis on oral and written communication. It helps continue to develop the appreciation of cultural diversity through the study of differences and similarities between cultures.

Transfer Credit: CSU; UC

FREN 201 (CAN FREN 8) (CAN FREN SEQ B) INTERMEDIATE FRENCH 5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: FREN 102 or equivalent with a grade of Pass or "C" or higher.

This course provides a review and in-depth study of important grammatical concepts. Reading and interpretation of authentic literary works by French writers are included. Guided and original composition exercises will be assigned as a transition to free written expression. This class is conducted primarily in French.

Transfer Credit: CSU; UC

FREN 202 (CAN FREN 10) (CAN FREN SEQ B) INTERMEDIATE FRENCH 4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: FREN 201 or equivalent with a grade of Pass or "C" or higher.

This is a course in reading of modern French. Emphasis is placed on oral and written expression. Grammar review is completed. FREN 202 aims to give the student a working knowledge of the language and to form the basis for advanced work in literature or science.

Transfer Credit: CSU; UC

FREN 203 INTERMEDIATE FRENCH ADVANCED LEVEL I 4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: FREN 202 or equivalent with a grade of Pass or "C" or higher.

This course consists of selected intermediate readings in literary and technical French designed to meet requirements of students majoring in literature, science, mathematics and engineering with a minimum basic grammar review.

Transfer Credit: CSU; UC

FREN 281 BEGINNING CONVERSATIONAL FRENCH 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: FREN 102 or equivalent with a grade of Pass or "C" or higher.

This course gives the student practice in speaking and understanding current French as used in travel, in the home, in school, in business and in everyday life. Emphasis is placed upon vocabulary, idioms, and language patterns fundamental to an active and practical use of French. This course is recommended for all French majors.

Transfer Credit: CSU; UC

FREN 282 INTERMEDIATE CONVERSATIONAL FRENCH 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: FREN 281 or equivalent with a grade of Pass or "C" or higher.

This course provides intensive oral practice in French in the discussion of social, current, and cultural affairs. Emphasis is on the acquisition of special idioms and vocabulary suitable to conversation about current affairs and personal values. This course is primarily conducted in French and is recommended for all French majors.

Transfer Credit: CSU; UC

FREN 283 ADVANCED CONVERSATIONAL FRENCH 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: FREN 282 or equivalent with a grade of Pass or "C" or higher.

This course provides intensive oral practice in discussion of controversial topics, expressing informed opinions regarding current affairs, the arts, and political issues. Emphasis is on creative development of arguments and analyses. Acquisition of appropriate vocabulary is stressed. This course, conducted completely in French, is recommended for all French majors.

Transfer Credit: CSU; UC

FREN 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

FREN 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department.

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With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

GEOGRAPHY

(Science, Engineering, Mathematics Division)

GEOG 101 (CAN GEOG 2) **PHYSICAL GEOGRAPHY** 3.0 UNITS

Class hours: 3.0 Lecture

This course covers the causes of variations in weather and climate; how landscapes develop; the use of maps or other tools of a geographer; and the effect of earth motions on the seasons, time, and climate.

Transfer Credit: CSU; UC

GEOG 101L **PHYSICAL GEOGRAPHY** **LABORATORY** 1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: GEOG 101 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment.

This laboratory/field study is designed to supplement GEOG 101. It introduces the global physical world, its dynamics and spatial relationships. The physical environment is presented as an integration of the atmosphere, hydrosphere, lithosphere, and biosphere. Furthermore, this course will introduce the physical processes that have shaped the earth, including weather and climate, plate tectonics, hydrological cycle, weathering, and glaciation.

Transfer Credit: CSU; UC

GEOG 102 (CAN GEOG 4) **NATURAL AND** **CULTURAL GEOGRAPHY** 3.0 UNITS

Class hours: 3.0 Lecture

This course is a survey of the influence of culture and the physical environment on man's activities in major world regions. An examination of the culture, settlement patterns, agriculture, commerce, natural resources and industry of each region will be

made. In addition, world trends in population growth and urbanization will be studied.

Transfer Credit: CSU; UC

GEOG 103 **ENVIRONMENTAL** **GEOGRAPHY** 3.0 UNITS

Class hours: 3.0 Lecture

This course is a survey of global environmental issues and the effects on society. Emphasis is placed on Earth's systems, sustainability, population concerns, global warming, energy use, pollution, and availability of natural resources.

Transfer Credit: CSU; UC

GEOG 105 **WORLD REGIONAL** **GEOGRAPHY** 3.0 UNITS

Class hours: 3.0 Lecture

This course investigates the major cultural and political regions of the world today. Emphasis is placed on cultural relationships, land use patterns, population distribution, trade and political alliances.

Transfer Credit: CSU; UC

GEOG 298 **DIRECTED STUDIES** 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

GEOG 299 **DIRECTED STUDIES** 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty

member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

GEOLOGY

(Science, Engineering, Mathematics Division)

GEOL 100 **NATURAL HISTORY OF** **SO CALIFORNIA** 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This is a field trip and seminar class in biology and geology of selected areas in So. California. Minerals, geology, landforms, plants, animals, ecology, human use, and recreational value will be studied. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

GEOL 101 (CAN GEOL 2) **PHYSICAL GEOLOGY** 4.0 UNITS

Class hours: 3.0 Lecture/4.0 Laboratory

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher. Recommendation: Satisfactory completion of the Math Placement Process or MATH 40 or equivalent with a grade of Pass or "C" or higher. This introductory course deals with the composition and structure of the earth. Internal and external forces by which the earth's crust and surface have been and are being changed are emphasized.

*Transfer Credit: CSU; UC**

*UC credit limits may apply. GEOL 101 and GEOL 110 combined: maximum credit, one course.

GEOL 201 (CAN GEOL 4) **EARTH HISTORY** 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Math Placement Process or MATH 40 or equivalent with a grade of Pass or "C" or higher.

This course concerns the origin and geological history of the earth and the evolution of its plant and animal inhabitants. Laboratory work includes exercises in the study of the principal

Announcement of Courses

fossil life of geologic time and exercises in the interpretation of earth history.

Transfer Credit: CSU; UC

GEOL 204

GEOLOGY OF THE WESTERN NATIONAL PARKS AND MONUMENTS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 100 clearance and MATH 40 or equivalent with a grade of Pass or "C" or higher.

A study of the geologic processes which shaped selected national parks and monuments of Western North America.

Transfer Credit: CSU

GEOL 207

PALEONTOLOGY, LIFE OF THE PAST

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Math Placement Process or MATH 40 or equivalent with a grade of Pass or "C" or higher.

This course is an introduction to the study of fossils. Fossil preservation, distribution and paleoecology are considered. Particular emphasis is placed on the fossil record as evidence of organic evolution on planet earth. Laboratory will include specimen identification. Two field trips are required.

Transfer Credit: CSU; UC

GEOL 208

THE AGE OF THE DINOSAURS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This is an integrated course designed to give broad, general knowledge in the areas of nonavian dinosaur origins, evolution, lifestyles, habitat, and extinction. It will also provide an in-depth coverage of the origin of avian dinosaurs and other life forms of the Age of Dinosaurs. Two field trips are required activities.

Transfer Credit: CSU; UC

GEOL 209

NATURAL DISASTERS

3.0 UNITS

Class hours: 2.5 Lecture/1.0 Laboratory

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is an introduction to the study of natural disasters, including how the origins

are explained by atmospheric disturbances and plate tectonics, and how new knowledge can be applied to the betterment of human welfare.

Transfer Credit: CSU; UC

GEOL 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

GEOL 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

GERMAN

(Liberal Arts Division)

GERM 101 (CAN GERM 2) (CAN GERM SEQ A) ELEMENTARY GERMAN

5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

This beginning course emphasizes listening,

speaking, reading, and writing, and helps to develop an appreciation of cultural diversity through the study of differences and similarities between cultures.

Transfer Credit: CSU; UC

GERM 102 (CAN GERM 4) (CAN GERM SEQ A) ELEMENTARY GERMAN

5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: GERM 101 or equivalent with a grade of Pass or "C" or higher.

This course provides a continued review and in-depth study of grammatical concepts and reading and interpretation of literary works by writers of German-speaking countries. Guided and original compositions are included. This class, conducted primarily in German, will further develop the appreciation of cultural diversity.

Transfer Credit: CSU; UC

GERM 201 (CAN GERM 8) (CAN GERM SEQ B) INTERMEDIATE GERMAN

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: GERM 102 or equivalent with a grade of Pass or "C" or higher.

This course provides a review and in-depth study of grammatical concepts in the German Language. Reading and interpretation of literary works by German writers, and guided and original compositions are included. This course will further develop the appreciation of cultural diversity. This class is conducted primarily in German.

Transfer Credit: CSU; UC

GERM 202 (CAN GERM 10) (CAN GERM SEQ B) INTERMEDIATE GERMAN

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: GERM 201 or equivalent with a grade of Pass or "C" or higher.

This course provides a continued review and in-depth study of grammatical concepts and reading and interpretation of literary works by writers of German-speaking countries. Guided and original compositions are included. This class, conducted primarily in German, will further develop the appreciation of cultural diversity.

Transfer Credit: CSU; UC

GERM 203

SCIENTIFIC GERMAN

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: GERM 202 or equivalent with a grade of Pass or "C" or higher.

This course provides a review of grammatical concepts in the German language and consists of selected intermediate readings of literary and technical German designed to meet requirements of students majoring in literature, science, mathematics and engineering.

Transfer Credit: CSU; UC

Announcement of Courses

GERM 204 SCIENTIFIC GERMAN 4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: GERM 203 or equivalent with a grade of Pass or "C" or higher.

This course consists of selected intermediate readings of popular appeal in scientific and technical German taken from texts published recently. It includes a basic grammar review.

Transfer Credit: CSU; UC

GERM 281 BEGINNING CONVERSATIONAL GERMAN 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: GERM 102 or equivalent with a grade of Pass or "C" or higher.

This course gives the student practice in speaking and understanding German as used in travel, in the home, in school, and in everyday life. Emphasis is placed on vocabulary, idioms, and language patterns fundamental to an active and practical use of German. This course is recommended for all German majors and develops the appreciation of cultural diversity.

Transfer Credit: CSU; UC

GERM 282 INTERMEDIATE CONVERSATIONAL GERMAN 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: GERM 281 or equivalent with a grade of Pass or "C" or higher.

This course provides intensive oral practice in the discussion of current topics, including multi-culturalism in German-speaking countries. Emphasis is on the acquisition of special idioms and vocabulary suitable for conversation about the family, the world of work, business, sports, public transportation and ecology. This course, conducted primarily in German, is recommended for all German majors.

Transfer Credit: CSU; UC

GERM 283 ADVANCED CONVERSATIONAL GERMAN 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: GERM 282 or equivalent with a grade of Pass or "C" or higher.

This course provides intensive oral practice in discussion of controversial topics, expressing informed opinions regarding current affairs, the arts and political issues. Emphasis is on the acquisition of appropriate vocabulary and language patterns, and the creative development of arguments. This course, conducted in German, is recommended for all German majors.

Transfer Credit: CSU; UC

GERM 291 GERMAN FOR INTERNATIONAL COMMERCE 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: GERM 102 or equivalent with a grade of Pass or "C" or higher.

Recommendation: GERM 201 or equivalent with a grade of Pass or "C" or higher.

This course will introduce students to the vocabulary used in German business and economy and will give insight into the customs used in the German business world where they differ from American customs.

Transfer Credit: CSU

GERM 292 GERMAN FOR INTERNATIONAL COMMERCE 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: GERM 102 or equivalent with a grade of Pass or "C" or higher.

Recommendation: GERM 201 or equivalent with a grade of Pass or "C" or higher.

This course will further introduce students to the vocabulary used in German business and economy and will give an insight into the customs used in the German business world where they differ from American customs.

Transfer Credit: CSU

GERM 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

GERM 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member,

students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

HEALTH EDUCATION

(Health, Physical Education Division)

HED 100 CONTEMPORARY HEALTH PROBLEMS 3.0 UNITS

Class hours: 3.0 Lecture

Students will identify, analyze, and seek solutions to contemporary health issues. The learner will be exposed to such health components as improving nutrition and physical fitness, enhancing mental and emotional health, creating healthy and caring relationships, avoiding and overcoming destructive habits, preventing and fighting disease, and facing life's transitions.

Transfer Credit: CSU; UC

HED 101 STRESS MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to give students an understanding of physiological and mental determinants and manifestations of stress. Topics include the nature and physiology of stress, mental stress, stress as it relates to disease, emotions, and personality, behavior modification, communication, time management, physical exercise and nutrition. Students are also trained in a variety of stress management techniques including imagery, progressive muscle relaxation, biofeedback, problem solving techniques, state and trait anxiety inventories, centering, breathing exercises, yoga, meditation, art therapy, music therapy, and humor therapy.

Transfer Credit: CSU

Announcement of Courses

HED 103

WOMEN, THEIR BODIES AND HEALTH

3.0 UNITS

Class hours: 3.0 Lecture

This course will examine contemporary women's health issues and body image concerns. General topics will include images of women, lifespan changes, mental health, eating disorders, prevention of abuse and self-harm, social roles, sexual identity and sexuality, relationships, birth control and pregnancy. Current research on cardiovascular disease, cancer and other chronic conditions will be discussed as they pertain to women's issues. Students will develop the skills necessary to become wiser consumers of health and beauty-enhancing products. (This course is not open to students currently enrolled or who have completed WS 103)

Transfer Credit: CSU

HED 110

COMMUNITY FIRST AID AND CPR

3.0 UNITS

Class hours: 3.0 Lecture

This course introduces the skills required to provide basic life support in an emergency illness or injury. The course includes adult, infant and child CPR and First Aid. Upon successful completion of all tests, students will be issued an American Red Cross card for Community First Aid (3 years) and CPR (1 year).

Transfer Credit: CSU; UC

HED 200

NUTRITION FOR HEALTH, FITNESS, AND PHYSICAL ACTIVITY

3.0 UNITS

Class hours: 3.0 Lecture

This course is an introduction to the basic nutritional principles important to physically active individuals. Content will cover the role of food in enhancing exercise and sport performance, body composition, and energy production. Current research and practical activities will be presented. This course is especially applicable for individuals interested in careers related to fitness or athletics.

Transfer Credit: CSU; UC

HED 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty

member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

HED 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

HEALTH OCCUPATIONS

(Health Occupations Division)

HO 7 (Not Degree Applicable)

CARDIOPULMONARY RESUSCITATION

0.5 UNIT

Class hours: 0.5 Lecture

The Basic Life Support for Healthcare Provider course is designed to meet the needs of healthcare professionals who respond to cardiac and respiratory emergencies. Content includes initial management of cardiac arrest, respiratory arrest, and airway obstruction in the infant, child and adult populations as well as two rescuers CPR, and use of automated external defibrillator (AED). This course may be taken for a maximum of 4 times. This course is offered on a Credit/No Credit basis only.

HO 9 (Not Degree Applicable)

EMERGENCY MEDICAL TECHNICIAN I

3.0 UNITS

Class hours: 3 lecture

Corequisite: HO 9L.

This course is designed to teach the student the basic knowledge, skills, and attitudes necessary to perform pre-hospital emergency care. The didactic portion will present various Basic Life Support (BLS) assessment tools that are included in the Emergency Medical Technician-I (Basic) scope of practice. Areas of instruction include scene and physical patient assessment, safe and the proper utilization of emergency medical equipment. The information presented will assist in the development of critical thinking skills required to complete a systematic and nationally standardized approach to caring for the ill and injured patient. Successful candidates in HO 9 and HO9L will be eligible for verification of course completion. The combination of HO9 and HO 9L meets the didactic, certifying skills exam, and clinical experiences set forth in the California Code of Regulations for Emergency medical Technician hours of instruction. Additional testing and certification process is required to use the name Emergency Medical Technician-I Basic. This course may be taken a maximum of 2 times and does not guarantee state certification.

HO 9L (Not Degree Applicable)

EMERGENCY MEDICAL TECHNICIAN I LAB

2.0 UNITS

Class hours: 6.5 Laboratory

Corequisite: HO 9

This course is designed to teach the student the practical skills necessary to perform pre-hospital emergency care. Areas of instruction include scene and physical patient assessment, safe and proper utilization of equipment, and hospital and ambulance clinical experience. Successful candidates in HO 9 and HO 9L will be eligible for verification of course completion. The combination of HO 9 and HO 9L meets the didactic, certifying skills exam, and clinical experiences set forth in the California Code of Regulations for Emergency Medical Technician hours of instruction. Additional testing and certification process is required to use the name Emergency Medical Technician - 1 or Basic. This course may be taken for a maximum of 2 times and does not guarantee state certification. Uniform will be required. Clearance of criminal background check may be required prior to clinical field experience.

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HO 53

ELECTROCARDIOGRAPHY 1.0 UNIT

Class hours: 0.7 Lecture/1.0 Laboratory

Corequisite: Current CPR for Professional Rescuer Certification.

This course will provide the student with knowledge and skills concerning the theoretical and procedural requirements for performing electrocardiography. This course follows the guidelines set forth by both state and national regulations.

HO 54

MEDICAL LABORATORY SKILLS 1.0 UNIT

Class hours: 0.7 Lecture/1.0 Laboratory

This course will provide the student with knowledge and skills concerning the theoretical and procedural requirements for performing several lab procedures. This course follows guidelines set forth by both state and national regulations including, but not limited to, the parameters of waived testing as set by CLIA (Clinical Laboratory Improvement Act of 1988).

HO 55

PHLEBOTOMY PROCEDURES 1.0 UNIT

Class hours: 0.7 Lecture/1.0 Laboratory

This class provides thirty hours of Phlebotomy training, in classroom instruction and hands-on application. Topics of instruction and testing include, but are not limited to the following: venipuncture and capillary puncture procedures, OSHA Bloodborne Pathogen Training, anatomy and physiology of the vascular system, patient care and special considerations, equipment selection, and blood processing. This course does not meet requirements for state certification for phlebotomist.

HO 56

MEDICATION CALCULATIONS 1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: MATH 40 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

This course presents skills and concepts utilized to calculate drug dosage. Problem solving, application of basic algebraic concepts, formulas, proportional relationships, systems of measurement, and measurement system conversions will be included. This course may be taken for a maximum of 2 times.

HO 100

HEALTH OF UNDERSERVED COMMUNITIES 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and MATH 60

or equivalent with grades of Pass or "C" or higher.

By providing an overview of the dynamics and processes underlying the health profiles of Latinos/Latinas another underrepresented minorities in Los Angeles County, this class aims to transform the student's individual interest in health into a professional health career goal. Population projections, population characteristics, birth rates and outcomes, causes of death and death rates, patterns of reportable diseases, services utilization, patterns of immigration, health insurances, provider training, risk behaviors, and chronic diseases will be surveyed.

Transfer Credit: CSU; UC

HO 150

PROFESSIONAL/ CPR AND FIRST AID 3.0 UNITS

Class hours: 3.0 Lecture

This course for allied health students will cover cardiopulmonary resuscitation and first aid techniques as specified by the American Red Cross. Topics will include one-and-two person CPR for infants, children, and adults; resuscitation with mask and bag-valve mask; automated external defibrillator (AED); and early intervention for wounds, burns, trauma and sudden illness. A Professional Rescuer CPR Card valid for one year and a Standard First Aid Certificate valid for three years will be earned with successful completion of the course.

Transfer Credit: CSU

HO 151

ELEMENTS OF NUTRITION 2.0 UNITS

Class hours: 2.0 Lecture

This course is an introduction to the basic principles of nutrition. Course content includes daily nutrient requirements, life cycle needs, food selection and meal planning for health. Weight maintenance strategies and consumer information are included. This course is designed to meet the requirement for medical assisting and culinary arts' majors and also meets the minimum requirement for nursing majors.

Transfer Credit: CSU

HO 152

NORMAL AND THERAPEUTIC NUTRITION 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: A&P 150 and A&P 151 or equivalent with grades of Pass or "C" or higher.

This course is an introduction to basic principles of normal and therapeutic nutrition. Emphasis is placed on nutritional requirements and food selection in health

and disease. Course content includes life cycle needs, weight maintenance strategies and discussion of common medical disorders and their relation to diet. This course is designed to meet the requirement for dental hygiene and nursing majors.

Transfer Credit: CSU; UC

HO 236

LIFE SPAN/HEALTH ISSUES 1 1.0 UNIT

Class hours: 1.0 Lecture

This course presents an application of the concepts and principles of growth and development as they relate to the delivery of health care. Content includes discussion of health concerns and issues at various age levels. Emphasis will be placed upon physical, cognitive and psychosocial assessment of individuals from infancy through school-age. Not open to students who have received credit for HO 15.

Transfer Credit: CSU

HO 237

LIFE SPAN/HEALTH ISSUES 2 1.0 UNIT

Class hours: 1.0 Lecture

This course presents an application of the concepts and principles of growth and development as they relate to the delivery of health care. Content includes discussion of health concerns and issues at various age levels. Emphasis will be placed upon physical, cognitive and psychosocial assessment of individuals from adolescence through older adulthood. Not open to students who have received credit for HO 15.

Transfer Credit: CSU

HO 298

DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

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HO 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

HISTORY

(Humanities, Social Science Division)

HIST 101

AMERICAN HISTORY AND CONSTITUTION

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

History 101 is a survey of the history of the United States from pre-colonial times to the present. Major political, social, economic, and cultural factors will be presented focusing on the roles played by the diverse peoples and cultures who shared in the development of United States history. An emphasis may be placed on one or more of these factors.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. HIST 101, HIST 102, HIST and 103 combined: maximum credit, 2 courses.*

HIST 102 (CAN HIST 8) (CAN HIST SEQ B) POLITICAL AND SOCIAL HISTORY OF THE UNITED STATES:

1500S TO 1876

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

A study of United States history tracing the development of American ideals and actions from the Pre-Revolutionary Period through the Civil War Era. Major political, social, economic, and cultural factors will be presented focusing on the roles played by the diverse peoples and cultures who shared in the development of United States history. An emphasis may be placed on one or more of these factors. (Formerly HIST 201)

*Transfer Credit: CSU; UC**

**UC credit limits may apply. HIST 101, HIST 102 and HIST 103 combined: maximum credit, 2 courses.*

HIST 103 (CAN HIST 10) (CAN HIST SEQ B) POLITICAL AND SOCIAL HISTORY OF THE UNITED STATES: 1877 TO PRESENT

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

A survey of cultural, diplomatic, economic, ethnic, political and social trends in recent United States history from 1877 to the present, focusing on the roles played by the diverse peoples and cultures who shared in the development of the United States. An emphasis may be placed on one or more of these factors. (Formerly HIST 202)

*Transfer Credit: CSU; UC**

**UC credit limits may apply. HIST 101, HIST 102 and HIST 103 combined: maximum credit, 2 courses. HIST 103 and HIST 210 combined: maximum credit, one course.*

HIST 110 AFRICAN/AMERICAN HISTORY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 with a grade of Pass or "C" or higher.

This course is a survey of the political, legal, economic, and social position and role of African-Americans in the history of the United States. Special emphasis will be given to the contributions of African-Americans in all aspects of American culture.

Transfer Credit: CSU, UC

HIST 120

HISTORY OF CALIFORNIA

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 with a grade of Pass or "C" or higher.

This course is an historical examination of the cultural, political, and economic forces that have shaped contemporary California. It focuses on the roles played by the diverse people who shared in its development from early Native American societies through the Spanish and Mexican periods and U.S. conquest to the present.

Transfer Credit: CSU; UC

HIST 204

WOMEN IN

AMERICAN HISTORY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of an American History Survey course, the Reading Placement Process or READ 54, and the English Placement process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This lecture/discussion course will survey women's history in the United States from colonial times to the present. It will focus on defining the similarities and differences in historical experiences of women based on their social class, race, and ethnicity. Topics of concentration include the changing roles of women in the private and public spheres; an analysis of the agendas, strategies, and consequences of the women's movements; and the historical evolution of the definitions of feminism and social construction of gender. This course is not open to students who are enrolled in or have received credit in WS 204.

Transfer Credit: CSU; UC

HIST 210

HISTORY OF THE UNITED STATES IN THE POST WORLD WAR II ERA

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This lecture/discussion course examines and analyzes the development of the United States from 1945 to the present. Attention is given to the political, social, intellectual, cultural, and economic changes in American society. Included as areas of inquiry will be the impact of the Cold War on foreign and domestic

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policies and society; the effect of social protest movements on society; the interconnected influence of economic, demographic, and cultural changes on policy and society; the expansion and contraction of the social welfare state; the ways that the Vietnam conflict, emergence of multiculturalism, and the new environmentalism have shaped contemporary policy and attitudes, and the pervasive and lasting influence of mass culture, technology and media.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. HIST 103 and HIST 210 combined: maximum credit, one course*

HIST 220 HISTORY OF THE AMERICAS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course covers the histories of Latin America, Canada, and the United States as an integrated whole. Emphasis is given to the Pre-Colombian setting, Native American heritage, the European conquest and legacy, distinctive colonial institutions, and the growth of independence movements. Major political, social, economic, and cultural factors will be presented focusing on the roles played by the diverse people and cultures who shared in the development of the nations of the Western hemisphere.

Transfer Credit: CSU; UC

HIST 221 HISTORY OF THE AMERICAS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course is a study of the histories of the United States, Canada, and the nations of Latin America from the completion of the independence movements to the present. They are studied as an integrated whole focusing on the roles played by the diverse peoples and cultures who shaped their development. Major political, economic, social and cultural factors and issues are presented with emphasis given to emerging international relations within the Western Hemisphere during the nineteenth and twentieth centuries.

Transfer Credit: CSU; UC

HIST 230 HISTORY OF MEXICO

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 with a grade of Pass or "C" or higher.

This course is an examination of the origins and evolution of the cultural, social, economic and political institutions, trends, events, issues, and leading personalities of Mexican History from the Pre-Columbian period to contemporary society.

Transfer Credit: CSU; UC

HIST 235 HISTORY OF LATIN AMERICA

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course is a study of the history of Latin America from the development of pre-Columbian cultures to the present. The experiences of individual countries are studied as an integrated whole focusing on the roles played by the diverse peoples and cultures who shaped their development. Major political, economic, social and cultural factors and issues are presented.

Transfer Credit: CSU; UC

HIST 241 (CAN HIST 2) (CAN HIST SEQ A) WESTERN CIVILIZATION

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 or equivalent with a grade of Pass or "C" or higher.

History 241 is a survey of the development of Western Civilization from the pre-historic era through the mid-seventeenth century A.D. It focuses on the contributions to this development of ancient Sumer, Egypt, classical Greece, Rome, Christianity, Byzantium, Islam, the Middle Ages, the Renaissance, and the Reformation. It acquaints students with the basic institutions, personalities, documents, and writings of the Western world which have influenced contemporary events.

Transfer Credit: CSU; UC

HIST 242 (CAN HIST 4) (CAN HIST SEQ A) WESTERN CIVILIZATION

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 or equivalent with a grade of Pass or "C" or higher.

History 242 is a survey course in the history of modern Europe and the Western world from the mid-seventeenth century to the present. It emphasizes broad economic, social and changing political trends, with special attention given to the role of science, the arts and technology in creating the modern world.

Transfer Credit: CSU; UC

HIST 245 WORLD CIVILIZATION FROM ANTIQUITY TO 1500

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: READ 54 and ENGL 52 or equivalent with grades of Pass or "C" or higher.

This is a survey course of the roots and development of civilizations in Africa, the Americas, Asia, and Europe from the Neolithic Revolution until the age of European exploration of the Americas (1500). The civilizations of Ancient, Classical, Postclassical, and Early European periods will be studied, emphasizing interaction between civilizations and major cultures.

Transfer Credit: CSU; UC

HIST 246 WORLD CIVILIZATION FROM 1500 TO PRESENT

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: READ 54 and ENGL 52 or equivalent with grades of Pass or "C" or higher.

This is a survey course of the origin of the modern world, tracing both regional histories and global interactions. The root and development of civilizations in Africa, the Americas, Asia, and Europe from the 1500's to the present day will be chronicled. Topics will include: the origins and the role of universal religions; the examination of political, social, and gender structures in relation to economic and demographic development; and the diffusion of culture and technology via migration, commerce and the expanse of empire.

Transfer Credit: CSU; UC

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HIST 250

HISTORY OF ENGLAND, GREAT BRITAIN AND THE COMMONWEALTH

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

History 250 is a survey of the history and institutions of Britain, the British Empire and The Commonwealth from the Norman Conquest to the present. It will focus upon medieval and early modern England, the creation of the first and second British Empires, and upon the development of Britain's economic, political and social institutions since the Glorious Revolution. The evolution of The Commonwealth and developing relations with the United States will also be studied. This course is not open to students who have credit in both HIST 5.1 and HIST 5.2.

Transfer Credit: CSU; UC

HIST 255

HISTORY OF RUSSIA AND THE SOVIET UNION

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course in the history of Russia encompasses a brief introduction to the political, social, economic, and cultural development of the Russians from earliest times to the present with an in-depth emphasis on the twentieth century. Special attention is given to the Bolshevik Revolution, the emergence of Soviet totalitarianism, the collapse of the Soviet Union, and the emergence of the new Russian Republic.

Transfer Credit: CSU; UC

HIST 260

SURVEY OF THE HISTORY OF ASIA

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 with a grade of Pass or "C" or higher.

This course presents a general survey of the historical evolution of cultural, social, economic and political institutions and customs of the

nations of Asia. The pre-19th Century sections of the course will emphasize institutions such as family, philosophies, religious viewpoints and life style. The post 18th Century periods will emphasize Western imperialism in Asia, nationalism, the independence movements, and the development of modern Asian states and societies.

Transfer Credit: CSU; UC

HIST 265

SELECTED PROBLEMS IN CONTEMPORARY ASIAN HISTORY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 with a grade of Pass or "C" or higher.

This course consists of a study of topical issues and problems concerning 20th century Asian history. Emphasis will be placed upon political, economic, social and cultural institutions, western imperialism, Asian nationalism, the emergence of modern Asian states, international relations, and contemporary Asian societies.

Transfer Credit: CSU; UC

HIST 270

SPECIAL TOPICS IN HISTORY

3.0 UNITS

Class hours: 3.0 Lecture

This course will expand on subjects and themes introduced in the core history curriculum offerings. Each topic will focus on themes, perspectives and issues of special interest to students. The specific focus of a particular offering will be decided by the course instructor and announced in the Schedule of Classes. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU, UC credit determined after admission.

HIST 275

GLOBAL STUDIES

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 or equivalent with a grade of Pass or "C" or higher.

In this course students study the patterns and processes of global change and international institutions in the post-World War II period. Students are introduced to an array of concepts and theoretical perspectives to understand the global conditions that act as catalysts to world problems and challenges. This course examines how the world community organizes its responses to serious international problems.

Transfer Credit: CSU

HIST 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

HIST 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

HUMANITIES

(Fine Arts, Communication Division)

HUM 100

THE ART OF BEING HUMAN

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher, are strongly recommended.

This is an introductory humanities course which considers the great works of humanity through the ages in painting, music, architecture, sculpture, dance, literature, and

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philosophy as they relate to the universal problems of humankind and today's students. Everyone will be encouraged to develop his/her own doctrine of humanity. College level reading is required.

Transfer Credit: CSU; UC

HUM 108 BLACK IMAGES IN POPULAR CULTURE 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher, is strongly recommended.

This course surveys the depiction and development of images of Blacks and the stereotypes created in Western culture. The various means artists have used to counter those stereotypes by using techniques of resistance and counter narratives will be examined. Students will study fine art, comic books, comic strips, cartoons, advertising, literature, music, dance, theatre, cinema, broadcasting and television. This course is not open to students who are enrolled in or who have received credit in ART 108.

Transfer Credit: CSU; UC

HUM 109 GENDER AND SEXUALITY IN ART 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: ENGL 52 and READ 54 or equivalent with grades of Pass or "C" or higher, is strongly recommended.

This class will investigate the relationship between gender and sexuality through and examination of visual art, cinema, television, video, and advertising. Close attention will be given to how popular and artistic cultures shape identity and representation. Writing a research paper is a significant component of the course. College level reading is required. This course is not open to students who are enrolled in or who have received credit in ART 109.

Transfer Credit: CSU; UC

HUM 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for

conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

HUM 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

INSURANCE

(Business Division)

INSR 101 INTRODUCTION TO INSURANCE 1.0 UNIT

Class hours: 1.0 Lecture
This course gives students a background of the modern property/casualty insurance system, how insurance products and services are distributed to the consumer, how insurance company departments function, how reinsurance is used to create an insurance company and insure large property and high liability values/limits, an understanding of civil laws or tort and contract, a review of the basic commercial and personal Insurance Services Office (ISO) insurance contracts, and an understanding of the importance of the risk management process.

Transfer Credit: CSU

INSR 102 INSURANCE CODE AND ETHICS 1.0 UNIT

Class hours: 1.0 Lecture
This Code and Ethics course is designed for insurance majors. It addresses ethical considerations one must support in order to succeed in business, specifically in the insurance industry. This course presents ethical issues with which employees working in insurance offices will be involved.

Transfer Credit: CSU

INSR 121 INSURANCE PRINCIPLES: PROPERTY AND LIABILITY 3.0 UNITS

Class hours: 3.0 Lecture
This course will help individuals learn basic information concerning property and liability insurance. The first segment of the course covers the fundamentals of insurance, including types of insurers, institutions that provide insurance, how it is regulated, and measurements of financial performance. The second segment includes insurance operations, such as marketing, underwriting, and claims. The final segment covers insurance contracts, loss exposure, and risk management.
(Formerly BUSA 121)

Transfer Credit: CSU

INSR 122 PERSONAL INSURANCE 3.0 UNITS

Class hours: 3.0 Lecture
This course is intended to assist individuals in learning basic information regarding personal insurance. It is of value to anyone majoring in business or anyone who does not possess the knowledge to handle personal insurance needs. Topics include information about automobile insurance, homeowners insurance, other residential insurance, such as fire and earthquake insurance, marine insurance, other personal property and liability insurance, financial planning, life insurance, and health insurance.

Transfer Credit: CSU

INSR 123 COMMERCIAL INSURANCE 3.0 UNITS

Class hours: 3.0 Lecture
This course is intended to help individuals learn basic information regarding the whole area of commercial insurance. Covered in this course is information concerning commercial property insurance, business income insurance, commercial crime insurance, equipment breakdown insurance, inland and ocean marine insurance, commercial general liability insurance, commercial automobile insurance, business owners policies and farm insurance,

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workers compensation and employers liability insurance, and other miscellaneous coverage.
Transfer Credit: CSU

INSR 171 INSURANCE OCCUPATIONAL WORK EXPERIENCE 1.0 UNIT

Class hours: 1.0 hour/week coordination class.
Corequisite: Enrollment in 7 or more units, including Insurance Occupational Work Experience. One unit of Insurance Occupational Work Experience requires 72 non-paid hours or paid hours of work per semester. Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

INTERDISCIPLINARY STUDIES

(Humanities, Social Science Division)

INST 100 PRINCIPLES AND STRATEGIES FOR PROBLEM SOLVING 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Students will study problem-solving concepts and strategies from an interdisciplinary perspective needed to succeed as a lifelong learner. Various theories and models for learning and intellectual development of adults and college students will be addressed. Emphasis is placed on the application of metacognitive strategies and problem-solving concepts to issues and problems associated with mastering the college experience.

Transfer Credit: CSU

INST 151 PRINCIPLES OF RECOVERY AND PSYCHOSOCIAL REHABILITATION 3.0 UNITS

Class hours: 3.0 Lecture

This course provides an overview of the philosophy, practices, and perspectives used in working with people and families with mental illness. The course will introduce and familiarize students with proven recovery and rehabilitation methods that allow individuals to reintegrate into society.

Transfer Credit: CSU

INST 152 HELPING RELATIONSHIPS 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: INST 151 with a grade of Pass or "C" or higher.

The course will introduce and familiarize students with skills and theories necessary for creating an effective partnership between service provider and service recipient. Students will learn techniques for service planning, advocating, empowering, and community reintegration.

Transfer Credit: CSU

INST 272 SPECIAL POPULATIONS 3.0 UNITS

Class hours: 3.0 Lecture

This course provides an overview of special populations with mental illness, including the homeless, transitional age youth, the elderly, veterans, gays, lesbians, bisexuals, transsexuals, individuals with physical disabilities, individuals with substance abuse, and different racial and ethnic groups. Emphasis is placed on the issues that are specific to special populations with mental illness, including living skills, education, self-development, empowerment, leadership, transitional support, and recovery efficacy. (Formerly PSYC 272)

Transfer Credit: CSU

JAPANESE

(Liberal Arts Division)

JAPN 101 ELEMENTARY JAPANESE 5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

This beginning Japanese course emphasizes listening, reading, writing, and speaking and helps to develop the appreciation of cultural diversity through the study of differences and similarities between cultures.

Transfer Credit: CSU; UC

JAPN 102 ELEMENTARY JAPANESE 5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: JAPN 101 or equivalent with a grade of Pass or "C" or higher.

This beginning course continues to emphasize listening, reading, and writing, and speaking and helps to continue to develop the cultural diversity through the study of differences and similarities between cultures.

Transfer Credit: CSU; UC

JAPN 201 INTERMEDIATE JAPANESE 5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: JAPN 102 or equivalent with a grade of Pass or "C" or higher.

This course provides a review and in-depth study of Japanese grammatical concepts. Reading and interpretation of literary works by Japanese writers and guided and original compositions are included. This course will further develop the appreciation of cultural diversity. This class is primarily conducted in Japanese.

Transfer Credit: CSU; UC

JAPN 202 INTERMEDIATE JAPANESE 4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: JAPN 201 or equivalent with a grade of Pass or "C" or higher.

This is a course with emphasis on reading modern Japanese. It continues the review of grammatical concepts, and requires written composition and oral discussion. This course, conducted primarily in Japanese, completes the study of all aspects of the Japanese language at the intermediate level.

Transfer Credit: CSU; UC

JAPN 281 BEGINNING CONVERSATIONAL JAPANESE 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: JAPN 102 or equivalent with a grade of Pass or "C" or higher.

This course gives the student practice in speaking and understanding Japanese as used in travel, in the home, in school, and in everyday life. Emphasis is placed on vocabulary, idioms and language patterns fundamental to an active and practical use of Japanese. This course develops the appreciation of the Japanese culture. It is recommended for all Japanese majors.

Transfer Credit: CSU; UC

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JAPN 282 INTERMEDIATE CONVERSATIONAL JAPANESE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: JAPN 281 or equivalent with a grade of Pass or "C" or higher.

This course provides intensive oral practice in the discussion of current topics, including multiculturalism in Japanese-speaking countries. Emphasis is on the acquisition of special idioms and vocabulary suitable for conversation about the family, the world of work, business, sports, public transportation and ecology. This course, conducted primarily in Japanese, is recommended for all Japanese majors.

Transfer Credit: CSU; UC

JAPN 283 ADVANCED CONVERSATIONAL JAPANESE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: JAPN 282 or equivalent with a grade of Pass or "C" or higher.

This course provides intensive oral practice in discussion of controversial topics and expressing informed opinions regarding current affairs, the arts, and political issues. Emphasis is on the acquisition of appropriate vocabulary and language patterns, and the creative development of arguments. This course, conducted in Japanese, is recommended for all Japanese majors.

Transfer Credit: CSU; UC

JAPN 298 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

JAPN 299 DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

JOURNALISM

(Fine Arts, Communication Division)

JOUR 50L EDITORIAL BOARD

1.0 UNIT

Class hours: 3.0 Laboratory

Corequisite: JOUR 103 or JOUR 105 or JOUR 160L.

Limitation of enrollment: editors of campus media.

This course focuses on leadership aspects using the school newspaper, the Talon Marks, and the school magazine, Wings, as practical laboratories. Enrollments are limited to those named to editor positions of these campus media. This course may be taken for a maximum of 4 times.

JOUR 100 MASS COMMUNICATIONS AND SOCIETY

(CAN JOUR 4)

3.0 UNITS

Class hours: 3.0 Lecture

The course examines the impact of mass media in national and international political, economic, cultural and behavioral contexts. It assesses contemporary trends in media-society relations; historical facts that have shaped the structures, practices and products of the mass media industries and trends in media-society relations.

Transfer Credit: CSU; UC

JOUR 101 BEGINNING NEWSWRITING AND REPORTING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course focuses on the principles of newsgathering and newswriting, with emphasis on journalistic writing. Basic news story structure and development, news evaluation, newsgathering methods, interviewing, craftsmanship, and reporting techniques in general are explored. Newspaper and other news and information media are analyzed. The course is particularly recommended for English and communications majors and those planning careers in news media, public relations, communications, corporate communications and news and informational media.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. JOUR 101 and JOUR 201 combined: maximum credit, one course.*

JOUR 103 NEWSPAPER

ARTICLE WRITING

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Recommendation: JOUR 101 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment, and satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course focuses on media article writing using the school newspaper, Talon Marks, as a practical laboratory. Student research, write, and edit articles for the school paper as they practice the skills of gathering information from a variety of sources, synthesizing a story and preparing it for dissemination to others. Ethics and legal aspects of communication are also covered. This course may be taken for a maximum of 4 times. Credit/No Credit option available for non-journalism majors.

Transfer Credit: CSU

JOUR 105 NEWSPAPER PRODUCTION

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Recommendation: ART 188 or CIS 205 or JOUR 120 or equivalent with a grade of Pass or "C" or higher.

This course uses desktop publishing World Wide Web publishing, and photojournalistic techniques for publishing of information. The school newspaper, Talon Marks, is used as a practical laboratory. Presentation of information in a visual form is emphasized. This course is for page designers, graphic

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artists, cartoonists and photographers. This course may be taken for a maximum of 4 times. Credit/No Credit option available for non-journalism majors.

Transfer Credit: CSU

JOUR 106 TALONMARKS.COM 1.0 UNIT

Class hours: 0.5 Lecture/2.0 Laboratory
Recommendation: JOUR 101 and ENGL 52 or equivalent with grades of Pass or "C" or higher, or concurrent enrollment. JOUR 103 or equivalent with grades of Pass or "C" or higher, or concurrent enrollment.

This course focuses on media article writing and digital storytelling using the online school newspaper, talonmarks.com, as a practical laboratory. Students research, write, and edit articles for the online school newspaper using multimedia techniques, such as photo slideshows, videos, animations, Flash-based presentations, and podcasts. Students research stories, synthesize and edit them, and prepare them for dissemination. Ethical and legal aspects of communication are also covered. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

JOUR 111 INTRODUCTION TO NEWSLETTERS 1.0 UNIT

Class hours: 1.0 Lecture
Recommendation: ENGL 52 or JOUR 101 or equivalent with a grade of Pass or "C" or higher.

This course focuses on the preparation of content for newsletters of all professions and special interests. Students will discuss news values in selecting and writing content, writing and editing techniques, and careers in newsletter journalism. Students will gain hands-on experience in choosing, writing and editing content for publication in preparation for the newsletter design.

Transfer Credit: CSU

JOUR 112 COPY EDITING SKILLS 1.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory
Recommendation: Concurrent enrollment or completion of JOUR 101 with a grade of Pass or "C" or higher.

This course focuses on copy editing and word skills for journalists. Students will practice applying Associated Press style rules to stories and improving sentence structure, spelling, and general grammar skills commonly found in news stories. This course is recommended for journalism students who wish to improve copy editing skills. Skills acquired will be

useable in various job markets, including newsletter, newspaper, magazine, book, and online publishing.

Transfer Credit: CSU

JOUR 120 INTERNET FOR JOURNALISTS 2.0 UNITS

Class hours: 2.0 Lecture
Recommendation: CIS 121 or equivalent with a grade of Pass or "C" or higher.

This course will provide a basic introduction to resources found on the Internet and the World Wide Web. Students will access the Internet to research trends in media use of the World Wide Web and learn to create on-line news and journalistic web pages. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

JOUR 121 MULTIMEDIA REPORTING 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Recommendation: JOUR 101 or equivalent with a grade of Pass or "C" or higher.

This course will provide a basic introduction to multimedia storytelling with a journalism emphasis. Techniques that will be explored include use of video, photos, audio, animation, and text to convey interactive news and feature stories through the World Wide Web and other electronic media. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

JOUR 122 CREATING PODCASTS FOR MEDIA 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Recommendation: JOUR 101 or RTV 152 or equivalent with a grade of Pass or "C" or higher.

This course teaches the principles and practice of writing for audio podcasts emphasizing news and information. Short podcast shows will be developed in class. Current podcast shows will be analyzed and evaluated for structure. Students will learn microphone techniques, the use of audio, studio procedure, and how to develop appropriate content for a podcast show or newscast. Current technology and digital format will be utilized to produce individual podcasts.

Transfer Credit: CSU

JOUR 130 PHOTO JOURNALISM 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This course deals with the photographer as a journalist, focusing on theory and practice

in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet, and other mass communications media. Students must have access to a manually operable camera. This course is not open to students who are enrolled in or who have received credit in PHOT 130.

Transfer Credit: CSU

JOUR 157 PRINCIPLES OF PUBLIC RELATIONS 3.0 UNITS

Class hours: 3.0 Lecture
This class explores the basic theories and principles of communicating information and concepts. Emphasis is on techniques and methods, with attention given to identifying audiences, using public relations tools, planning public relations programs and campaigns, promoting favorable relations with various segments of the public, and dealing with problem solving. The effective use of public information, publicity, and advertising is covered. This course is not available for students who are enrolled in or have completed BA 157. (Formerly JOUR 110)

Transfer Credit: CSU

JOUR 160L COLLEGE MAGAZINE PRODUCTION 1.0 UNIT

Class hours: 3.0 Laboratory
Corequisite: JOUR 103 or JOUR 105 or PHOT 102 or PHOT 112 or ENGL 240 or ART 188.

This course offers study and practical experience in planning content and layout and in editing the college magazine. It provides a format for the application of photojournalism, feature article and page design skills, and writing skills. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

JOUR 170 BROADCAST NEWS/ WEBCASTING 1.0 UNIT

Class hours: 0.5 Lecture/1.0 Laboratory
Prerequisite: Concurrent enrollment or completion of JOUR 101 with a grade of Pass or "C" or higher.

Recommendation: Concurrent enrollment or completion of JOUR 103 and/or concurrent enrollment or completion of RTV 152.

This course focuses on broadcast newswriting and production techniques using the college radio station, WPMD, as a practical laboratory. Students will develop and research story ideas for regular news broadcasts on WPMD.

Newsgathering and reporting for broadcast will be emphasized, along with ethics and legal aspects of communication. This course is not open to students currently enrolled in or who have completed RTV 170. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

JOUR 171 OCCUPATIONAL WORK EXPERIENCE IN JOURNALISM 1.0 UNIT

Class hours: 1 lecture

Prerequisite: JOUR 101 or equivalent with a grade of Credit or "C" or higher.

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Journalism, in a declared Journalism major. One unit of Occupational Work Experience in Journalism requires 60 non-paid hours or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their approved projects are completed. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

JOUR 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

JOUR 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

LAW

(Business Division)

LAW 1T (Not Degree Applicable) LEGAL-COMPUTER TUTORIAL

0.5 UNIT

Class hours: 1.0 Laboratory

Corequisite: Concurrent enrollment in one or more LAW class.

Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This course is designed to assist development in computer applications in the advanced Law courses. Students must attend one hour minimum per week and are limited to a maximum of three hours per week. This course may be taken a maximum of 4 times. (Formerly BL 1T)

LAW 52 LAW OFFICE MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 or BCOT 108 or equivalent with a grade of Pass or "C" or higher.

This course is a study of law office management and organization. Roles, activities, and responsibilities in timekeeping and accounting systems for law offices, as well as legal calendaring, file organization, and retrieval systems, will be taught. Law office computers and their functions in the law office will be utilized. (Formerly BL 52)

LAW 56 INTRODUCTION TO COMPUTERIZED LEGAL SOFTWARE 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

This is an introductory course in the utilization of legal software. The student will use software in conjunction with a document control system that will include applications for the following law office functions: document maintenance, document retrieval, document construction, document billing, and document calendaring. (Formerly BL 56)

LAW 57 LEGAL DOCUMENT PRODUCTION 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: LAW 56 or BCOT 108 or equivalent with a grade of Pass or "C" or higher.

This is a course in the production of legal documents using WordPerfect. Topics covered include the development and production of client worksheets, fee agreements, fax forms, interrogatories, legal briefs, office newsletters, deposition summaries, pleadings, and trial notebooks. Students will create these legal documents on a computer. (Formerly BL 57)

LAW 65 ADVANCED LEGAL TECHNOLOGY 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: LAW 56

This course focuses on the applications and uses of spreadsheet management software, database management software, and graphics presentations software for the law office. Using spreadsheet management software, students will learn to track figures, anticipate income and expenses, prepare financial documents, and maintain information for the law office. Using database software, students will learn to collect, track, analyze and maintain information in the law office. Using graphics presentation software, students will learn to combine text and graphic images to develop computerized slide shows, transparencies and charts for use in the law office. (Formerly BL 65)

LAW 98 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

Prerequisite: A previous college course in the discipline.

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes

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and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

LAW 99 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study
Prerequisite: A previous college course in the discipline.

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

LAW 100 INTRODUCTION TO CALIFORNIA CIVIL PROCEDURES 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This course is an introduction to civil procedures in litigation, including pre-suit claims and notices, jurisdiction, service of process, venue, statutes of limitations, parties, and joinder. Rules governing pleading in complaints and answers are covered, as well as demurrers and amended pleadings. Computerized legal forms are introduced. (Formerly BL 100)

Transfer Credit: CSU

LAW 101 INTRODUCTION TO LAW 3.0 UNITS

Class hours: 3.0 Lecture
This course is an introduction to careers in the legal field including the role of the paralegal/legal assistant in the law office and the rules of ethics which govern lawyers and legal assistants. The course also covers substantive law in the areas of crimes and torts and describes the structure of the legal system in the federal and state settings. An introduction to the law library and legal resources is provided. (Formerly BL 101)

Transfer Credit: CSU

LAW 102 ADVANCED CALIFORNIA CIVIL PROCEDURES 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Prerequisite: LAW 100 with a grade of Pass or "C" or higher.

Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This course continues the study of California Civil Procedures through the trial of a civil matter. Students will study the elements of discovery and develop a written discovery plan. Students will draft motions, judicial arbitration materials, trial briefs, and settlement proceedings. This is an optional course concentrating in advanced civil litigation and writing. (Formerly BL 102)

Transfer Credit: CSU

LAW 103 LEGAL RESEARCH 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: LAW 101 and LAW 56 or equivalent with grades of Pass or "C" or higher.

This course is designed to introduce students to the basic techniques of legal research. Emphasis will be placed upon techniques of modern legal research which include the use of the law library and the specific techniques of how to use the primary and secondary sources of the law, legal terms, research aids; and introduction to legal writing. Primary emphasis will be on the legal research in the state of California. (Formerly BL 103)

Transfer Credit: CSU

LAW 104 ADVANCED LEGAL RESEARCH 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: LAW 103 or equivalent with a grade of Pass, or "C" or higher.

Recommendation: LAW 56 or equivalent with a grade of Pass or "C" or higher

This is an advanced legal research course for the paralegal student. This course will utilize legal research skills to develop sophisticated techniques in the use of legal research materials both at the state and federal levels. Computerized legal research (Westlaw) and traditional research methods will be utilized in preparing complex legal research projects. Analysis of the law through practical application of legal research will be developed. Memorandums, points and authorities, and comprehensive briefs will be required. (Formerly BL 104)

Transfer Credit: CSU

LAW 105 INTRODUCTION TO FEDERAL AND CALIFORNIA EMPLOYMENT, LABOR, AND WORKERS' COMPENSATION LAW 3.0 UNITS

Class hours: 3.0 Lecture

This course is an introduction to Federal and California State employment, labor, and workers' compensation laws that affect the relationship between employers and employees in the work place. It provides an understanding for both employers and employees of their rights and obligations under these laws. (Formerly BL 105)

Transfer Credit: CSU

LAW 106 BANKRUPTCY LAW 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This course is an introduction to the Federal Bankruptcy law, with emphasis on Chapter 7 Bankruptcies, and discussions and introduction to Chapter 11 and 13 proceedings. The student will complete an entire Chapter 7 Bankruptcy petition and other documents and motions involving a bankruptcy case under the Bankruptcy Code. Included will be creditors' claims and motions for relief of automatic stay. (Formerly BL 106)

Transfer Credit: CSU

LAW 107 PROBATE PROCEDURES 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This course acquaints the student with the procedures and laws governing the probate of estates, both testate and intestate, and with procedures to transfer decedent's property without probate. Emphasis is placed upon correct completion of probate forms, notice requirements, and time limits. Procedures governing guardianship and conservatorship will also be covered. (Formerly BL 107)

Transfer Credit: CSU

LAW 108 FAMILY LAW PROCEDURES 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This course acquaints the student with the laws governing family relations and procedures for dissolution of marriage actions. These are: Order to Show Cause Hearings, Trials, and Post Dissolution Proceedings. Preparation of marital termination agreements, types of judgments, adoptions and custody agreements are also presented. (Formerly BL 108)

Transfer Credit: CSU

LAW 109
TORTS & PERSONAL INJURY **3.0 UNITS**

Class hours: 3.0 Lecture/1.0 Laboratory
 This course is a study of the major areas of torts and personal injury law including interviewing, claims investigation, claims adjustment techniques, and litigation procedures. (Formerly BL 109)
Transfer Credit: CSU

LAW 110
BUSINESS LAW **3.0 UNITS**

Class hours: 3.0 Lecture
 This is a survey course designed to acquaint the student with the legal aspects of the business world. It will cover bailments, personal property, real property, agency, partnerships, corporations, wills, trusts, secured interests, and international law. (Formerly BA 112, BL 110)
*Transfer Credit: CSU; UC**
**UC credit limits may apply. LAW 111, LAW 112 and BA 113 combined: maximum credit, one course.*

LAW 111 (CAN BUS 8)
BUSINESS LAW **3.0 UNITS**

Class hours: 3.0 Lecture
 This is a course designed to introduce the student to the legal concepts of everyday business transactions. It will include discussions of legal rights, contracts, Universal Commercial Code (UCC) sales, negotiable instruments, and the structure of our judicial system. This course meets 54 hours of the legal requirement for Court Reporting Certification. (Formerly BA 111, BL 111)
*Transfer Credit: CSU; UC**
**UC credit limits may apply. LAW 111, LAW 112 and BA 113 combined: maximum credit, one course.*

LAW 112
ESTATE PLANNING FOR THE PARALEGAL **3.0 UNITS**

Class hours: 3.0 Lecture/1.0 Laboratory
 Recommendation: LAW 56 with a grade of Pass or "C" or higher.
 This course is an introduction to estate administration. The student will learn the legal theories relating to wills, trusts, succession, taxation, and probate. Document preparation will be required in the areas of wills, trusts, and estate plans. (Formerly BL 112)
Transfer Credit: CSU

LAW 113
FUNDAMENTALS OF ALTERNATE DISPUTE RESOLUTIONS **3.0 UNITS**

Class hours: 3.0 Lecture/1.0 Laboratory
 Recommendation: LAW 56 with a grade of Pass or "C" or higher.
 This course is the study of the techniques that resolve disputes to avoid or circumvent a trial in the California Court system. Students will draft the documents utilized in negotiations, mediation, neutral fact finding, contractual arbitration, judicial arbitration, and private judging. (Formerly BL 113)
Transfer Credit: CSU

LAW 114
LAW ON THE INTERNET **3.0 UNITS**

Class hours: 3.0 Lecture/1.0 Laboratory
 This course introduces the students to the basic techniques of using the Internet for legal research, general factual research, other law-office related research and research related to legal careers and education. Students learn how to access and use the Internet. Emphasis is placed on search techniques including use of various search engines including legal search engines, refining search queries and performing a variety of searches using the Internet. Both Federal and California state research materials will be used. (Formerly BL 114)
Transfer Credit: CSU

LAW 115
ELDER LAW **3.0 UNITS**

Class hours: 3.0 Lecture/1.0 Laboratory
 This course introduces the student to the expanding legal area of elder law. Topics include ethical considerations, government benefits, health care decision making, Medicare and Medi-Cal benefits, home care versus residential care facilities, and protection from physical and/or fiduciary abuse. Upon completion of the course, students will be able to direct the elderly or their families to the appropriate government or private agency for assistance. (Formerly BL 115)
Transfer Credit: CSU

LAW 116
CRIMINAL LAW **3.0 UNITS**

Class hours: 3.0 Lecture/1.0 Laboratory
 This is an introduction to criminal law. Concepts covered include the legal system, elements of a crime, crimes against persons and property, defenses, searches and seizures, pre-trial and trial process, sentencing, corporate and white-collar crimes. (Formerly BL 116)
Transfer Credit: CSU

LAW 120
LEGAL ETHICS **3.0 UNITS**

Class hours: 3.0 Lecture
 This course is a study of the major areas of legal ethics and rules of professional responsibility as they affect paralegal/legal assistants. The course also focuses on legal ethics as they apply to attorneys. The course will cover the substantive rules regarding the regulation of lawyers/paralegals/legal assistants, the unauthorized practice of law, issues of confidentiality and conflicts of interest, advertising and solicitation, fees and client funds competence, and professionalism. (Formerly BL 120)
Transfer Credit: CSU

LAW 161
CONSUMER LAW **3.0 UNITS**

Class hours: 3.0 Lecture
 This course is an introduction to the workings of the law to help the consumer better understand legal fundamentals and procedures. This course covers the legal profession and careers; the court system in the United States, contracts, property rights, negligence, wills, business organizations, marriage and divorce, real estate, bankruptcy, and consumer protection. (Formerly BA 161, BL 161)
Transfer Credit: CSU

LAW 171
LEGAL OCCUPATIONAL WORK EXPERIENCE **1.0 UNIT**

Class hours: 1 lecture
 Corequisite: Enrollment in 7 or more units, including Legal Occupational Work Experience, in a declared law major. One units of Legal Occupational Work Experience requires 60 non-paid hours or 75 paid hours of work per semester.
 Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 3 times. (Formerly BL 171)
Transfer Credit: CSU

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LAW 172

LEGAL OCCUPATIONAL WORK EXPERIENCE

2.0 UNITS

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Legal Occupational Work Experience, in a declared law major. Two units of Legal Occupational Work Experience require 120 non-paid hours of work or 150 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 3 times. (Formerly BL 172)

Transfer Credit: CSU

LAW 173

LEGAL OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: 1 hour/week coordination class.

Corequisite: Enrollment in 7 or more units, including Legal Occupational Work Experience, in a declared law major. Three units of Legal Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Legal Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before

enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BL 173)

Transfer Credit: CSU

LAW 174

LEGAL OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: 1 hour/week coordination class.

Corequisite: Enrollment in 7 or more units, including Legal Occupational Work Experience, in a declared law major. Three units of Legal Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Legal Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers.

First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must secure departmental approval before enrolling. Students will meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BL 174)

Transfer Credit: CSU

LAW 220

LANDLORD AND TENANT LAW

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This is an introduction to landlord and tenant law including the nature of the tenancy relationship, rental agreements, rights and obligations during tenancy, premises liability and unlawful detainer litigation. Rules governing preparation of the unlawful detainer summons and complaint and answer are covered as well as obtaining default judgment and possession of property. (Formerly BL 220)

Transfer Credit: CSU

LAW 230

CORPORATE LAW

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This is an introduction to corporate law. Concepts covered include substantive law considerations in choosing a business entity, pre-incorporation planning, forming a corporation, advantages and disadvantages of incorporating, issuance of shares and securities law considerations, corporate taxation, corporate structure, dividends and dissolution. (Formerly BL 230)

Transfer Credit: CSU

LAW 260

IMMIGRATION LAW

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: LAW 56 with a grade of Pass or "C" or higher.

This is an introduction to immigration law including history and administration of U.S. Immigration law, citizenships, nationality, immigrant and non-immigrant categories, admission rules to U.S., removal procedures and refugees and asylum. Rules governing preparation of the various immigration forms will also be discussed and reviewed. (Formerly BL 260)

Transfer Credit: CSU

LIBRARY

(Learning Resource Center)

LIBR 100

INTRODUCTION TO LIBRARY RESOURCES

1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

This is an open-entry, open-exit, self-paced course which emphasizes the use of library methods and materials that will enable students to locate information for course-related study and research. This course is of special value to those students intending to transfer to four-year institutions. This course is to be offered on a credit/no credit basis.

Transfer Credit: CSU; UC

LIBR 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should

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expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

LIBR 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

MACHINE TOOL TECHNOLOGY

(Technology Division)

MTT 1L (Not Degree Applicable)

CNC MACHINING

LABORATORY

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: MTT 51 or MTT 76 and MTT 52, MTT 54, MTT 56, MTT 57 and MTT 100 or equivalent with a grade of Pass or "C" or higher.

This course is an independent study on an experimental research basis, using Computer Assisted Manufacturing (CAM) software and Computer Numerical Control (CNC) programming. The student will increase programming skill and knowledge in specialized areas of his/her choice with the guidance of the department. This course may be taken a maximum of 4 times.

MTT 2L (Not Degree Applicable)

MASTERCAM

LABORATORY

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: MTT 51 or MTT 57 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This lab course is intended to complement MasterCam classes. It is designed to give practical experience in working with the current release of the software program. The course will increase the skill and output of the student in areas of his/her choice. This course may be taken a maximum of 4 times.

MTT 3L (Not Degree Applicable)

VIRTUAL GIBBS

LABORATORY

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: MTT 76 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This lab course is intended to complement Virtual Gibbs classes. It is designed to give practical experience in working with the current release of the software program. The course will increase the skill and output of the student in areas of his/her choice. This course may be taken a maximum of 4 times.

MTT 4L

MANUAL MACHINING LAB

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: MTT 56 and MTT 100 or equivalent with grades of Pass "C" or higher.

This course is an independent study on an experimental research basis, using the manual lathe, the manual mill, and associated cutting tools and machines. Students will increase their skill and knowledge in specialized areas of their choice with the approval and guidance of the department. This course may be taken a maximum of 4 times.

MTT 50

CNC SHOP MATH

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to teach the student how to solve typical and practical mathematical shop problems using a calculator and The Machinery's Handbook. Particular emphasis will be placed on solving problems of ratio and proportion, measurement system conversion, plane geometry, and right triangles as applied to machine fabricated parts.

MTT 51

MASTERCAM INTRODUCTION

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

This course will prepare students to operate the MasterCAM Programming Systems in conjunction with various multi axis computer

numerical control simulators. Students will learn to create and import CAD geometry, create proper job plans, and input the resultant data into virtual CNC machinery.

MTT 52

SETUP AND OPERATION

OF CNC MILLING MACHINES

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

This course instructs students in the safe and accurate setup and production operation of CNC milling machines of up to 4 axes. Students will learn how to load programs, align fixtures, select offsets, select cutter radius compensation, and run first article parts.

MTT 54

CNC BLUEPRINT READING

2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This course is designed to familiarize the student with blueprints and the conversion of blueprint data to workable fabrication data unique to the CNC machine shop. It will cover tool-offset conversion, location, and identification of missing and pertinent coordinates, ANSI Y-14.5, visualization, and identification of attributes important to CNC programming.

MTT 55

SUPPLEMENTAL MACHINE SHOP STUDIES

2.0 UNITS

Class hours: 2.0 Lecture

This course is designed to broaden the knowledge of the student machinist with a survey of blueprint reading, metallurgy, metrology, tooling, and use of the Machinery's Handbook.

MTT 56

CNC SHOP INSPECTION

2.0 UNITS

Class hours: 2.0 Lecture

This course is designed to give the student a complete understanding of dimensional metrology. The student will also develop skills in preparing inspection reports using all of the appropriate instruments available in a machine shop for validation of part geometry.

MTT 57

SETUP AND OPERATION

OF CNC LATHES

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

This course instructs students in the safe and accurate set up and production operation of CNC lathes. Students will learn how to create programs using MasterCam, load programs, select offsets, select cutter radius compensation, and will run first article parts. This course may be taken a maximum of 2 times.

MTT 60

ADVANCED MACHINE TOOL CONCEPTS

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: MTT 100 or equivalent with grades of Pass or "C" or higher or equivalent. This course is designed to augment the student's knowledge of conventional and automated process techniques. Coursework includes developing advanced skills in lathe and mill setup, materials science, and learning process planning.

MTT 62

FIXTURE TOOLING

2.0 UNITS

Class hours: 2.0 Lecture

This course teaches planning, design, and fabrication methods for fixturing in the machine shop. It includes decision-making, machine planning, cutter selection, tolerancing, rest areas, clamping, blueprint interpretation, and design.

MTT 70

INTRODUCTION TO MODEL MAKING/ PROTOTYPE DESIGN

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course will introduce students to model making and prototype design by creating 3D solid parts using Rhinoceros software. Students will also learn how to export 3D models to Roland's Computer Aided Machining software and create appropriate tool paths using Modela software.

MTT 71

PROTOTYPE AND MODEL FABRICATION

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course will prepare students in the fabrication of prototypes and models. Students will learn how to import a 3D model created by software, how to scan and digitize models using Dr. Picza software, and how to create models using Modela 3D Text. Students will generate tool paths using Roland's Modela software, transfer tool paths to CNC machines, and fabricate prototypes and models.

MTT 76

GIBBSCAM INTRODUCTION

2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This course prepares students to operate the Gibbscam Programming System in conjunction with various multi-axis Computer Numerical Control (CNC) simulators. Students will learn to create and import computer aided drafting (CAD) geometry, create proper job plans, and input the resultant data into virtual CNC machinery.

MTT 98

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

MTT 99

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

MTT 100

MACHINE TOOL INTRODUCTION

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course is designed as a survey of machine tool technology. It will stress traditional machine tool technologies. It includes set-up and operation of the engine lathe, the milling machine, the drill press, and sawing and cutoff machines. It will also incorporate calculation and setup of speeds and feeds, and measurements. This course is required for all Machine Tool Technology majors.

Transfer Credit: CSU

MTT 154

CNC PROGRAM OPTIMIZATION

2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: MTT 51 or MTT 76 and MTT 170 or appropriate work experience.

This course is designed to provide the student with the skills required to optimize Computer Numerical Control (CNC) programs and operations. The student will learn how

to get the most out of CNC machine tools by increasing equipment utilization and decreasing equipment downtime. Course work also includes CNC program verification, optimization, and related service and maintenance issues.

Transfer Credit: CSU

MTT 170

COMPUTER NUMERICAL CONTROL PROGRAMMING

2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This course includes numerical control programming as applied to machine tools including a description of control systems and the capabilities of each. Students will develop CNC machine tool programs used to make manufactured parts. Computers will be used to input, develop and proof CNC programs. This course is for the student who desires to be a machine tool operator, programmer, or who will be employed in related fields.

Transfer Credit: CSU

MTT 177

ADVANCED GIBBSCAM CAD/CAM

2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: MTT 76 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course prepares students to operate the GibbsCam Programming System in conjunction with various multi-axis Computer Numerical Control (CNC) machinery. Students learn how to construct and import 3D models and create surface and solid models from engineering geometry. Other topics include tool paths from 3D models, post processing data for specific CNC machinery, and mold cores and cavities.

Transfer Credit: CSU

MTT 278

MASTERCAM ADVANCED

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: MTT 51 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course advances the student's skill in the development of 3D surface models, solids and tool paths using MasterCAM. Students learn to create swept, ruled, revolved, Coons, draft, trimmed, and lofted surfaces using parametric and NURBS methodology. Basic and advanced solids modeling is fully incorporated into this class. Modification of geometry/toolpath using parametric hooks will be emphasized.

Transfer Credit: CSU

MANUFACTURING TECHNOLOGY

(Technology Division)

MFGT 43 (Not Degree Applicable)

MFGT TECHNOLOGY OCCUPATIONAL

WORK EXPERIENCE 3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Manufacturing Technology work experience 73 or 20 hours of employment per week for Manufacturing Technology work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Manufacturing Technology vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Manufacturing Technology students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken for a maximum of 4 times.

MFGT 44 (Not Degree Applicable)

MFGT TECHNOLOGY OCCUPATIONAL

WORK EXPERIENCE 4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Manufacturing Technology work experience 73 or 20 hours of employment per week for Manufacturing Technology work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Manufacturing Technology vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Manufacturing Technology students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine

individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken for a maximum of 4 times.

MFGT 50

HAZ-MAT

1.5 UNITS

Class hours: 1.5 Lecture

This course is a survey of the knowledge and skills that allow a person to work with hazardous materials in compliance with governmental regulations while at the same time to protect human health and the environment. Specific examples will include industry specific compliance, regulations, and controls. This includes an introduction to Material Safety Data Sheets (MSDS) and basic materials handling as is typical in local industries.

MFGT 51

INTRODUCTION TO COMPUTER INTEGRATED MANUFACTURING (CIM)

3.0 UNITS

Class hours: 3.0 Lecture

This course examines the relationships between management, design, and manufacturing of a product. Students will be introduced to the multi-faceted operations of the manufacturing industry. Case studies and demonstrations will be used to explore the development and implementation of an automated factory. This course is not open to students who have received credit in BCIS 46.

MFGT 52

INTRODUCTION TO LASER CUTTING TECHNOLOGY

2.0 UNITS

Class hours: 2.0 Lecture

This introductory laser cutting technology class will cover a variety of subjects, starting with an explanation of the laser itself and its history. Discussions will be held on the interface of a laser with material movement system, the different types of systems in the field, and the process required to process materials. Demonstrations and visitation(s) to local industry sites are included.

MFGT 53

STATISTICAL PROCESS CONTROL

1.5 UNITS

Class hours: 1.5 Lecture

Recommendation: TM 50 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This technical course is for quality assurance personnel interested in applying statistical process control concepts. Materials covered include statistical methods for use in quantitative approaches to quality assurance

and reliability including basic algebraic notation and formulation, functions, graphical analysis, probability laws, measures of central tendency and dispersion, frequency distributions, sampling plans and risks, control charts, and process capability studies.

MFGT 54

ULTRASONIC LEVEL I TESTING

1.5 UNITS

Class hours: 1.8 Lecture/0.5 Laboratory

This course provides students with background knowledge in the operation of basic ultrasonic testing equipment. Skill development required in understanding and operating basic ultrasonic testing equipment for the inspection of composite and metallic components is emphasized.

MFGT 55

QUALITY CONTROL (QC)

1.5 UNITS

Class hours: 1.5 Lecture

This course provides basic and comprehensive details of quality control concepts for those new to or already in the manufacturing field. Areas covered include quality costs, product liability, reliability and acceptance sampling. Techniques of using production charts, graphs and tables are covered to emphasize quality improvement with manufacturing sampling. Actual case studies and current manufacturing quality issues and concerns will be studied. Related terms and methods of Quality Assurance (QA), Total Quality Management (TQM), International Standards Organization (ISO) 9000 quality standards, Statistical Process Control (SPC), just in time (JIT) as well as other quality tools will be outlined and identified.

MFGT 56

ISO 9000:2000

1.5 UNITS

Class hours: 1.5 Lecture

This survey course is a study of ISO 9000:2000, the quality standard established by the International Standard Organization, as it applies to the manufacturing industry. Materials covered will include the ISO 9000 documents and selected references on the topic. Special emphasis will be placed on the advantages of implementing an ISO 9000 Quality System in an industrial manufacturing environment.

MFGT 57

TOTAL QUALITY MANAGEMENT (TQM)

1.5 UNITS

Class hours: 1.5 Lecture

This survey course examines the nature and application in manufacturing of Total Quality Management (TQM) in today's competitive environment. Students will be introduced

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to basic concepts of quality and why its philosophy of continuous improvement will provide the framework for production systems. The "team" approach to all facets in quality of production within industry is examined.

MFGT 58 BENCHMARKING

1.5 UNITS

Class hours: 1.5 Lecture

This survey course is for those interested in learning about Benchmarking as a strategic tool in manufacturing environment for continuous quality improvement. Topics will include a definition of Benchmarking, resources available to help in the manufacturing Benchmarking process, case studies and examples of companies that have used Benchmarking methods in production.

MFGT 59 DESIGN OF EXPERIMENTS (DOE)

1.5 UNITS

Class hours: 1.5 Lecture

This survey course is designed for individuals interested or actively engaged in developing an effective strategy for process improvements. The course will help Quality, Manufacturing and Engineering personnel understand the differences between Lean and Six Sigma, define the distinct power and focus of each, and why they are used together in a synchronized and complimentary way. Merging Lean and Six Sigma initiatives creates culture change, immediate results, and streamlined processes, paving the way for more effective and sustainable results.

MFGT 60 QUALITY ASSURANCE PRINCIPLES

1.5 UNITS

Class hours: 1.5 Lecture

This course is an overview of quality control systems, organizational structure, quality costs, vendor relations, acceptance sampling, and customer relations. Emphasis will be placed on the importance of adequate product requirements.

MFGT 65 APPLIED MATH IN MANUFACTURING

3.0 UNITS

Class hours: 3.0 Lecture

Student will utilize basic mathematic functions to solve applied technical shop problems in the industrial manufacturing work place. Typical applications will emphasize problems encountered by sales, supervision, quality assurance technicians, inspectors, shop floor, and maintenance personnel. Emphasis will be placed on specific hand measurement instruments and devices to solve common manufacturing problems and verify quality.

Problem solving is stressed involving weights and measures, ratios, conversions of standard and metric system measurements, and dimensional and spatial relationships. Students will learn how to interpret manufacturing requirements including process specifications, engineering drawing, symbols and dimensional tolerances.

MFGT 100 MANUFACTURING PROCESSES

3.0 UNITS

Class hours: 3.0 Lecture

This course provides information on modern manufacturing processes and operations including process materials currently used in industry.

Transfer Credit: CSU

MATHEMATICS

(Science, Engineering, Mathematics Division)

MATH 5 (Not Degree Applicable) MATHEMATICS LEARNING STRATEGIES

1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: Concurrent enrolment in MATH 20, 40, 60, 80, 80A, or 80B

This course is designed to assist the student in developing learning skills and study habits that are important for all college level course work. Emphasis will be placed on those learning skills and study habits that are unique to the study of mathematics. This student will develop quantitative literacy by practicing arithmetic and algebraic structures including but not limited to "mathematical facts," number sense and number theory, proportional reasoning including rational expressions and equations, and the real number system and its properties. Additional topics related to the development of learning skills and study habits may include affective factors influencing learning styles and the study of mathematics, effective management of classroom learning and personal study habits, problem-solving and reasoning skills, test preparation and test-taking strategies, appropriate use of technology, and support services for students of mathematics. This course is offered on a credit/no credit basis only. This course may be taken for a maximum of 3 times.

MATH 20 (Not Degree Applicable) BASIC MATHEMATICS

3.0 UNITS

Class hours: 3.0 Lecture

This course includes a review of the basic mathematics skills and fundamental

operations as applied to whole numbers, common fractions, decimal fractions, percentage, and ratios. This course is offered on a Credit/No Credit basis. This class may be taken in Programmed Learning Sections. See your counselor for details.

MATH 40 (Not Degree Applicable)

PRE-ALGEBRA

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 20 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

This course covers topics in pre algebra, informal geometry, and applied arithmetic including but not limited to percent, rates, scientific notation, tables, graphs, the real number line, an introduction to the Cartesian Coordinate system, problem solving techniques, signed numbers, simplifying and evaluating expressions and formulas, solving simple equations, numerical relationships involving lines, angles and polygons. This course is offered on a Credit/No Credit basis.

MATH 60

ELEMENTARY ALGEBRA

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 40 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

This course is designed for students with a deficiency in high school algebra. Topics included are: real numbers, polynomials, rational expressions, first-degree equations and inequalities, graphs of equations, linear systems of equations, exponents and radicals, and quadratic equations.

MATH 70

PLANE GEOMETRY

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 60 or equivalent with a grade of Pass or "C" or higher or a satisfactory score on Intermediate Algebra Readiness Test. May be taken concurrently with MATH 80, MATH 80A or MATH 80B.

This course includes the study of triangles, quadrilaterals, circles, parallels, and similar figures. Skill development involving equalities, proportions, and areas of the above figures is included. Logical thinking is stressed in problem solutions. This course is designed for students who have not taken high school plane geometry.

MATH 80

INTERMEDIATE ALGEBRA

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 60 or equivalent with a grade of Pass or "C" or higher, or satisfactory completion of the Math Placement Process

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

Announcement of Courses

This course explores the representation of functions and relations as graphs, formulas, and tables. The types of functions studied will include linear, quadratic, polynomial, rational, exponential, and logarithmic. These functions will be used in solving a variety of equations, systems of equations and application problems. Other topics include: the algebra of real and complex numbers, inequalities, and an introduction to conic sections. (This course is not open to students with credit in MATH 80A or MATH 80B)

MATH 80A INTERMEDIATE ALGEBRA I 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MATH 60 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process. Students who have not taken MATH 60 must attain satisfactory score on the Intermediate Algebra Reading Test.

This course is the first half of Intermediate Algebra. Topics include: the real number system, linear and quadratic equations, inequalities, exponents and polynomials, rational expressions, rational exponents and radicals, and graphing linear equations.

MATH 80B INTERMEDIATE ALGEBRA II 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MATH 80A or equivalent with a grade of Pass or "C" or higher.

This course is the second half of Intermediate Algebra. Topics include: systems of equations, relations and functions, exponential and logarithmic functions, conic sections, and sequences and series.

MATH 90A TRAINING FOR TUTORS OF MATHEMATICS I 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: MATH 140 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Concurrent enrollment in any mathematics course.

This course is intended to prepare students to be individual and/or group tutors and to be mentor tutors in a program of supervised mathematics tutoring. Course topics include an introduction to learning theory, communication skills useful to mathematics tutors, attitudinal and cognitive roadblocks to student learning, and student success strategies to assist tutees to improve their study habits and time management skills. This course is offered on a credit/no credit basis only. This course may be taken for a maximum of 2 times.

MATH 90B TRAINING FOR TUTORS OF MATHEMATICS II 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: MATH 90A or equivalent with a grade of Pass or "C" or higher

Recommendation: Concurrent enrollment in any mathematics course.

This course is a continuation of MATH 90A. It prepares students to be individual and/or group tutors in mathematics and to be mentor tutors in a program of supervised mathematics tutoring. Students will focus on the methods of tutoring mathematics students enrolled in lower division mathematics courses. Course topics include tutoring responsibilities and ethics, principles of tutoring, appropriate tutoring techniques, and a discussion of common mathematical structures found in lower division mathematics courses. This course is offered on a credit/no credit basis only. This course may be taken for a maximum of 2 times.

MATH 100 (CAN MATH 2) LIBERAL ARTS MATHEMATICS 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MATH 80 (or MATH 80B) and MATH 70 or equivalent with grades of Pass or "C" or higher.

This is a nontechnical course surveying a variety of concepts in mathematics. Topics will include: elementary logic, algebra of sets, rational and real numbers, informal geometry, elementary combinatorics and probability, and elementary statistics. It is not open to student with credit in any transfer level math course.

Transfer Credit: CSU; UC

MATH 105 ACTIVITY-BASED PROBABILITY AND STATISTICS FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: MATH 70, 80, or MATH 80B or equivalent with grades of Pass or "C" or higher.

This course will emphasize activities-based explorations of randomization, data representation, measures of central tendency, and dispersion. Coursework includes combinations, basic probability, and analysis of experiments requiring hypothesizing, experimental design and data gathering. Algebraic thinking will be used throughout the course.

Transfer Credit: CSU

MATH 110A (CAN MATH 4) MATHEMATICS FOR ELEMENTARY TEACHERS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: MATH 80 (or MATH 80B) and MATH 70 or equivalent with grades of Pass or "C" or higher.

This course is an introduction to problem solving processes and strategies. Topics will include the development and analysis of the structure of and operations on the real number system and concept and process development using appropriate models, technology, manipulatives and activities. It meets elementary education credential requirements. It is not open for credit to math majors.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. MATH 110A and MATH 110B combined: maximum credit, one course.*

MATH 110B MATHEMATICS FOR ELEMENTARY TEACHERS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: MATH 110A or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of MATH 110A. Emphasis will be problem solving with a focus on making tables and patterning, informal geometry, congruence similarity, constructions, transformations, tessellations, and measurement involving both English and Metric units in 1, 2, and 3 dimensions. Computer explorations will be integrated into the course. The course will also emphasize hands-on modeling of real-world geometric situations. It meets elementary education credential requirements. It is not open for credit to math majors.

*Transfer Credit: CSU, UC**

**UC credit limits may apply. MATH 110A and MATH 110B combined: maximum credit, one course.*

MATH 112 (CAN STAT 2) ELEMENTARY STATISTICS 4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 80 or MATH 80B or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

This course provides an introduction to descriptive and inferential statistics. Topics included are mean, standard deviation, variance, probability, random variables, binomial probability distribution, normal probability distribution, central limit theorem, testing hypotheses, confidence intervals, t-distribution, chi-square distribution, F-distribution, linear regression, and linear

Announcement of Courses

correlation. This course is a beginning statistics course designed for all majors. A graphing calculator is required.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. MATH 112 combined with PSYC 210: maximum credit, one course.*

MATH 114 **COLLEGE ALGEBRA** **4.0 UNITS**

Class hours: 4.0 Lecture

Prerequisite: MATH 80 or MATH 80B or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

This course is designed for students majoring in life or social sciences. The main topics to be covered include linear and quadratic equations and inequalities, polynomial, rational, exponential, and logarithmic functions and their graphs, systems of linear equations, matrices, sequences and series, combinatorics, and the Binomial Theorem.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. MATH 114 and MATH 150 combined: maximum credit, one course.*

MATH 115 (CAN MATH 12) **FINITE MATHEMATICS** **4.0 UNITS**

Class hours: 4.0 Lecture

Prerequisite: MATH 80 or MATH 80B or equivalent with a grade of Pass or "C" or higher. Students who have not taken MATH 80 or MATH 80B must attain a satisfactory score on the Advanced Math Readiness Test.

This course includes sets, matrices, system of equations and inequities, linear programming, permutations and combinations probability and topics from statistics. Applications of various topics from business, social and behavioral sciences are included.

Transfer Credit: CSU; UC

MATH 116 (CAN MATH 34) **CALCULUS FOR** **MANAGERIAL, BIOLOGICAL** **AND SOCIAL SCIENCES** **4.0 UNITS**

Class hours: 4.0 Lecture

Prerequisite: MATH 114 or equivalent with a grade of Pass or "C" or higher.

This course is a survey of calculus designed to meet lower division university and four-year college requirements for the management, biology or social science major student. Topics included are differentiation and integration of algebraic, logarithmic and exponential functions of single and multi-variables, related rates, areas, and curve sketching. This course

is not open to students with credit in MATH 170. The class does not meet the prerequisite for Mathematics 190.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. MATH 116 and MATH 170 combined: maximum credit, one course.*

MATH 140 (CAN MATH 8) **TRIGONOMETRY** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: MATH 80 (or MATH 80B) and MATH 70 or equivalent with grades of Pass or "C" or higher.

This course includes circular functions, inverses, graphs, angles and trigonometric functions, solutions of right and oblique triangles, identities, solution of equations, and complex numbers. This class may be taken in Programmed Learning Sections. See your counselor for details.

Transfer Credit: CSU

MATH 150 (CAN MATH 16) **PRECALCULUS MATH** **4.0 UNITS**

Class hours: 4.0 Lecture

Prerequisite: MATH 140 or equivalent with a grade of Pass or "C" or higher.

This course is a critical study of the algebra of real and complex numbers which includes selected topics such as the number system, inequalities, and the binomial theorem, sets, matrices, sequences and series. Exponential, logarithmic, polynomial and inverse functions are included.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. MATH 114 and MATH 150 combined: maximum credit, one course*

MATH 150A **COMPUTER APPLICATIONS** **FOR PRECALCULUS** **1.0 UNIT**

Class hours: 3.0 Laboratory

Prerequisite: MATH 150 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment.

This course is an introduction to modern mathematical software commonly used in universities and industry. The topics will be specifically selected to enhance and augment MATH 150 Precalculus Mathematics course using the powerful numeric, symbolic, and graphical capabilities of the mathematical software and will better prepare students for calculus.

Transfer Credit: CSU

MATH 170 (CAN MATH 18) (CAN MATH SEQ B) (CAN MATH SEQ C)

ANALYTIC GEOMETRY **AND CALCULUS I** **4.0 UNITS**

Class hours: 4.0 Lecture

Prerequisite: MATH 150 or equivalent with a grade of Pass or "C" or higher. Students who have not taken MATH 150 must attain a satisfactory score on the Calculus Readiness Test.

This course is the first semester of calculus, designed to meet lower division university and four-year college requirements. Topics included are differentiation and integration of algebraic, and trigonometric functions with applications. The necessary topics of analytic geometry are presented as needed to proceed with the principles of calculus.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. MATH 116 and MATH 170 combined: maximum credit, one course.*

MATH 170A **COMPUTER APPLICATIONS** **FOR CALCULUS I** **1.0 UNIT**

Class hours: 3.0 Laboratory

Prerequisite: MATH 170 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

This course is an introduction to modern mathematical software as used in most universities and in industrial applications where scientific research is commonplace. The topics will be specifically selected to enhance Calculus I using the powerful numeric, symbolic and graphical capabilities of mathematical software that is currently available.

Transfer Credit: CSU

MATH 190 (CAN MATH 20) (CAN MATH SEQ B) (CAN MATH SEQ C)

ANALYTIC GEOMETRY **AND CALCULUS II** **4.0 UNITS**

Class hours: 4.0 Lecture

Prerequisite: MATH 170 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of MATH 170. Topics include analytic geometry of the plane, differentiation and integration of trigonometric, logarithmic, and exponential functions, techniques of integration with applications, sequences, series, and improper integrals.

Transfer Credit: CSU; UC

Announcement of Courses

MATH 190A COMPUTER APPLICATIONS FOR CALCULUS II

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: MATH 190 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

This course is an introduction to modern mathematical software commonly used in universities and industry. The topics will be specifically selected to enhance Calculus II using the powerful numeric, symbolic, and graphical capabilities of the mathematical software.

Transfer Credit: CSU

MATH 220 (CAN MATH 22) (CAN MATH SEQ C) ANALYTIC GEOMETRY AND CALCULUS III

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 190 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of Math 190. Topics include vectors and vector calculus, solid analytic geometry, functions of two or more variables, partial derivatives and multiple integration.

Transfer Credit: CSU; UC

MATH 240 (CAN MATH 24) CALCULUS AND DIFFERENTIAL EQUATIONS

4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 190 or equivalent with a grade of Pass or "C" or higher.

Recommendation: MATH 220 or equivalent with a grade of Pass or "C" or higher.

Topics in the course are standard methods of solving ordinary linear differential equations with applications. Laplace transforms including techniques of solving differential equations with Laplace transforms, matrices, and determinants including solving systems of linear equations with the Gauss elimination technique and Cramer's Rule. This course is designed for engineering majors.

Transfer Credit: CSU; UC

MATH 298 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number

of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

MATH 299 DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

MEDICAL ASSISTING

(Health Occupations Division)

MA 60 INTRODUCTION TO MEDICAL ASSISTING

2.0 UNITS

Class hours: 2.0 Lecture

This is an introductory course to study the history of medicine and paramedical professions. Generalized and specialized careers in medical assisting, personal and professional responsibilities, medical ethics and law, communications and records are discussed. The focus is on front office responsibilities, customer service philosophy, and basic communication skills.

MA 62A HEALTH INSURANCE AND BILLING

1.5 UNITS

Class hours: 1.5 Lecture

Recommendation: MA 161 or equivalent with a grade of Pass or "C" or higher.

This course presents principles of insurance, general health and accident insurance programs and billing procedures, government

medical care programs with specialized billing procedures, role of the insurance officer, and aspects of related medical professional liability. (This course is not open to students who have received credit for MA 62)

MA 62B ICD-9 AND CPT CODING

1.5 UNITS

Class hours: 1.5 Lecture

Recommendation: MA 62A and MA 161 or equivalent with grades of Pass or "C" or higher.

This course presents the International Classification of Diseases, 9th revision (ICD-9-CM) Current Procedural Terminology (CPT) coding process utilized for health care reimbursement. Specialized billing procedures for government medical care, role of the coder, and aspects of related medical professional liability will be presented.

MA 64 MEDICAL OFFICE ASSISTING

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

This course includes instruction in developing skills and techniques in the assisting of physical examinations, naming, care and setting-up of instruments, sterilization, and operating room procedures.

MA 66 MEDICATIONS AND SPECIALTIES

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

This course prepares the student to prepare and administer medications, maintain narcotic control records, and assist the specialist with examinations. This course meets the requirements as set forth in the laws relating to the utilization of medical assistants within the Medical Practice Act.

MA 67 MEDICAL OFFICE ADMINISTRATION

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MA 60.

Recommendation: BCOT 62, and BCOT 3T, or equivalent with grades of Pass or "C" or higher.

This course is designed to develop skills in administrative procedures in the medical office. Topics include telecommunications; bookkeeping, billing and collections; payroll; policy and procedure development; medical records; verbal and written communication for the medical office; counseling employees, and additional office management techniques. Focus is placed on the manager's perspective.

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MA 68

MEDICAL ASSISTING INTERNSHIP EXPERIENCE 4.0 UNITS

Class hours: 1.0 Lecture/10.0 Laboratory
Prerequisite: MA 60, 62, 64, 161, HO 53, 54, and HO 55 or equivalent with grades of Pass or "C" or higher.

Corequisite: MA 66 and MA 67 or prior completion with a grade of Pass or "C" or higher.

This course is designed to provide opportunities for the student to intern a medical facility while receiving supervised instruction in direct patient care.

MA 73

MEDICAL ASSISTANT OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Medical Assistant work experience 73 or 20 hours of employment per week for Medical Assistant work experience 74. The employment must be in a job related to the student's educational goal.

Prerequisite: MA 60, MA 62, MA 64, MA 161, HO 53, HO 54 and HO 55 or equivalent with grades of Pass or "C" or higher.

Corequisite: Enrollment in the Medical Assistant vocational program with 7 or more units including occupational work experience. MA 66 and MA 67 or prior completion with a grade of Pass or "C" or higher.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be taken a maximum of 4 times based on the number of hours on the job.

MA 74

MEDICAL ASSISTANT OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Medical Assistant work experience 73 or 20 hours of employment per week for Medical Assistant work experience 74. The employment must be in a job related to the student's educational goal.

Prerequisite: MA 60, MA 62, MA 64, MA 161, HO 53, HO 54 and HO 55 or equivalent with grades of Pass or "C" or higher.

Corequisite: Enrollment in the Medical Assistant vocational program with 7 or more units including occupational work experience.

MA 66 and MA 67 or prior completion with a grade of Pass or "C" or higher.

Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be taken a maximum of 4 times based on the number of hours on the job.

MA 98

DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

MA 99

DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

MA 161

MEDICAL TERMINOLOGY 3.0 UNITS

Class hours: 3.0 Lecture

This course will prepare the student in the correct use of medical terms, abbreviations, phraseology, and the understanding of word parts. It will include analyzing the terms by written and oral communication of the various systems of the body.

Transfer Credit: CSU

MICROBIOLOGY

(Science, Engineering, Mathematics Division)

MICR 200

(CAN BIOL 14)

PRINCIPLES AND APPLICATIONS

OF MICROBIOLOGY 5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory

Prerequisite: CHEM 100 or BIOL 120 or ZOOL 120 or equivalent with grades of Pass or "C" or higher.

Through lecture and laboratory exercises, this course provides an introduction to the microbial world. Emphasis is on microbial structure, microbial genetics, host-microbe interactions, the immune response, and disease control/prevention. Current issues in acquired immuno deficiency syndrome research and recombinant deoxyribonucleic acid technology are discussed. Laboratory exercises will emphasize microbial morphology and identification through microscopic observation and biochemical testing. This course satisfies the requirements of majors in two and four-year nursing programs, dental hygiene, and is recommended for pre-professional biology majors.

Transfer Credit: CSU; UC

MICR 298

DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

MICR 299

DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes

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and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

MUSIC

(Fine Arts, Communication Division)

MUS 2 (Not Degree Applicable)

COMMERCIAL MUSIC ORIENTATION

1.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory
This course provides preparation for professional and semi-professional work as a commercial musician. It includes preparation for auditions, techniques in securing employment, basic knowledge required for practicing musicians, conduct and deportment on the job, how to improve one's skills and correcting weaknesses in an individual's qualifications as a practicing professional or semi-professional.

MUS 100

MUSIC APPRECIATION

3.0 UNITS

Class hours: 3.0 Lecture
This course is an introductory survey of Western Art music from the Middle Ages to the present. Emphasis is on the historical, aesthetic, and cultural contexts from which music arises.

Transfer Credit: CSU; UC

MUS 101

INTRODUCTION TO WORLD MUSIC

3.0 UNITS

Class hours: 3.0 Lecture
This course is an introduction to world music. Emphasis is placed on understanding the substantive features of music as well as social, cultural, political, and economic factors that contribute to different musical traditions found throughout the world.

Transfer Credit: CSU; UC

MUS 102

LATINO MUSIC

3.0 UNITS

Class hours: 3.0 Lecture
This course offers students a historical and philosophical survey of Latino music. Musical

expression will be discussed in terms of folk/ethnic, popular and classical art forms. The cross-hybridization of musical styles will be addressed with respect to musical forms from Mexico, Cuba, Puerto Rico, and the Dominican Republic. The state of music among Latino populations in the United States also will be included.

Transfer Credit: CSU

MUS 103

JAZZ IN AMERICA

3.0 UNITS

Class hours: 3.0 Lecture

This course is an introduction to jazz, its historical background and its development in the United States.

Transfer Credit: CSU; UC

MUS 104

AMERICAN POPULAR MUSIC

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

This course is a survey of the history and characteristics of the music developed in or for general American culture and various subcultures from the Revolutionary Period to the present. It includes folk music, blues, Swing-era music, rock 'n' roll, and rock.

Transfer Credit: CSU; UC

MUS 104B

HISTORY OF ROCK MUSIC

3.0 UNITS

Class hours: 3.0 Lecture

This course introduces students to rock and its influence on American popular music. The students will learn how to actively engage with music by relating rock to other styles of music, relating music to text, and relating rock to its cultural context.

Transfer Credit: CSU; UC

MUS 105

MUSIC FUNDAMENTALS

3.0 UNITS

Class hours: 3.0 Lecture

This course provides the fundamentals of notation, meter, rhythm, intervals, and key signatures, so that the student can gain a sensitivity to, and understanding of, music past, present, and future.

Transfer Credit: CSU; UC

MUS 106

MUSIC THEORY/ MUSICIANSHIP I

(CAN MUS 2)

5.0 UNITS

Class hours: 5.0 Lecture/2.0 Laboratory

Prerequisite: MUSIC 105 or equivalent with a grade of Pass or "C" or higher.

This is a basic course in music theory and musicianship. Orientation is given in the

basic elements of major and minor harmony, intervals, keys, triads, voice leading, non-harmonic tones, and seventh chords. Sight singing, ear training, keyboard harmony, melodic dictation, computer music software, computer literacy for musicians, and notation software will also be studied.

Transfer Credit: CSU; UC

MUS 107

MUSIC THEORY/ MUSICIANSHIP II

5.0 UNITS

Class hours: 5.0 Lecture/2.0 Laboratory

Prerequisite: MUSIC 106 or equivalent with a grade of Pass or "C" or higher.

This is a course in music theory and musicianship dealing with Baroque and Classical harmony. Orientation is given in advanced four-part chorale writing, primary and secondary triads, modulation, inversion, dominant 7ths, and non-dominant seventh chords. Other topics to be covered are intermediate keyboard harmony and dictation, intermediate sight singing, chordal identification, diatonic scale degrees, and chordal dictation. There will be the continuing study and usage of music software, rhythm machines, and computer based notation programs.

Transfer Credit: CSU; UC

MUS 108

MUSIC THEORY/ MUSICIANSHIP THEORY III

5.0 UNITS

Class hours: 5.0 Lecture/2.0 Laboratory

Prerequisite: MUS 107 or equivalent with a grade of Pass or "C" or higher.

This is a course in music theory and musicianship dealing with Classical and Romantic harmony. Attention is given in advanced four-part chorale writing, piano style writing, secondary triads, advanced modulation, inversion, dominant 7ths, non-dominant seventh chords, ninth chords, eleventh chords, and thirteenth chords. Other topics to be covered are advanced keyboard harmony and dictation, advanced chromatic scale degrees, and chordal dictation involving secondary dominants. There will be the continuing study and usage of music software, rhythm machines, and computer-based notation programs.

Transfer Credit: CSU; UC

MUS 109

MUSIC THEORY/ MUSICIANSHIP IV

5.0 UNITS

Class hours: 5.0 Lecture/2.0 Laboratory

Prerequisite: MUS 108 or equivalent with a grade of Credit or "C" or higher.

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

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This is a course in music theory and musicianship dealing with Romantic and 20th century harmony. Orientation is given in piano style writing, all chromatically altered chords, advanced modulation, inversion, non-dominant seventh chords, half and fully diminished 7th chords, whole tone harmony, and elements of late Romanticism, Impressionism and the 20th century. Other topics to be covered are advanced keyboard harmony and dictation, advanced sight singing, advanced chordal identification, diatonic and chromatic scale degrees, and chordal dictation involving secondary dominants and chromaticism. There will be the continuing study and usage of music software, rhythm machines, and computer-based notation programs.

Transfer Credit: CSU; UC

MUS 112 (CAN MUS 22) ELEMENTARY PIANO I 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
This course focuses on basic study technique, which will include reading, writing, listening and playing. A variety of elementary piano repertoire will be studied. Students learn to understand, experience and appreciate the fundamentals of keyboard musicianship. This course is designed for students with little or no background in piano playing. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 113 (CAN MUS 24) ELEMENTARY PIANO II 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 112 or equivalent with a grade of Pass or "C" or higher.
This course focuses on the continuation of basic piano, which will include reading, writing, listening and playing. A variety of piano repertoire will be studied. Further emphasis will be on understanding, experiencing and appreciating the fundamentals of keyboard musicianship. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 114 INTERMEDIATE PIANO I 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 113 or equivalent with a grade of Pass or "C" or higher.
This course is a continuation of piano student at the intermediate level. A variety of assigned piano repertoire will be studied. Emphasis will be on understanding, experiencing and appreciating more advanced course of

keyboard musicianship. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 115 INTERMEDIATE PIANO II 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 114 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of piano study that occurred in MUS 114. A variety of assigned piano repertoire at the intermediate to advanced level will be studied. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 116 VOICE I 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
This course focuses on basic vocal techniques including breath management, posture, phonation, resonance, and diction. A variety of elementary vocal repertoire is introduced from different musical styles: folk, classical, musical theater, and popular songs. Students learn to use the unamplified voice to its best advantage and to interpret and perform songs suited to their individual ability. A concentration on musicianship is emphasized using ear-training techniques. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 117 VOICE II 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 116 or equivalent with a grade of Pass or "C" or higher.

This course focuses on a continuation of vocal techniques including breath management, posture, phonation, resonance, and diction. A variety of intermediate vocal repertoire will be introduced from different musical styles: folk, classical, musical theater, and popular songs. Students learn to use the unamplified voice to its best advantage and to interpret and perform songs suited to their individual ability. A concentration on musicianship is emphasized using ear-training techniques. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 118 VOICE III 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 117 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes the technical foundations of singing learned in Voice I and

II. The song literature is more advanced and requires and understanding of a broad range of styles as previously discussed in the earlier courses. Ear training and musicianship require specific reading and identification skills. Stylistic interpretation is focused on, as well as performance techniques. Greater involvement with microphone and recording techniques will be encouraged. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 119 VOICE IV 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 118 or equivalent with a grade of Pass or "C" or higher.

The course continues the student of diction, style, technique, musicianship, and interpretation that occurred in Voice III. Acting with emphasis on stage movement, characterization, and improvisational techniques are explored in greater detail. Singers will be required to perform solos, duets, and in scenes. Popular styles are required to collaborate with recording studio to create projects. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 120 ELEMENTARY GUITAR I 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
This course provides basic instruction in classical and other styles of guitar playing at beginning level. It includes appropriate exercises to develop technical facility, material for sight reading, study of basic chords, and repertoire. The student must provide an acoustic guitar for his/her own use in the class. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 121 ELEMENTARY GUITAR II 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 120 or equivalent with a grade of Pass or "C" or higher, or audition
This class refines guitar-playing techniques used in elementary classical, flamenco, and other pieces. Elements of improvisation, harmonization, and playing in upper positions are included. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 122 INTERMEDIATE GUITAR I 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 121 or equivalent with a grade of Pass or "C" or higher.

This class includes instruction in scales, chords, and arpeggios in all keys and

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positions. Included are intermediate levels of improvisation, accompanying, sight-reading, transposition, and the performance of folk, classical, and Flamenco styles. This course may be taken for a maximum of 2 times
Transfer Credit: CSU; UC

MUS 123 INTERMEDIATE GUITAR II 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: MUS 122 or equivalent with a grade of Pass or "C" or higher.
This class covers the mastery of the entire guitar fingerboard, a study of intermediate and advanced music in several styles, and the principles of improvisation and transposition. This course may be taken for a maximum of 2 times.
Transfer Credit: CSU; UC

MUS 124 CONCERT BAND 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Prerequisite: Audition
The concert band is dedicated to the performance of standard band literature. Emphasis will be placed upon the development of individual musicianship through both large group and small group rehearsal. Musical compositions of a wide variety of styles will be studied. Required participation in concerts may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

MUS 124A BEGINNING BAND 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
The beginning band is dedicated to the performance of beginning band literature. Emphasis will be placed upon the development of individual musicianship through both large group and small group rehearsal. Musical compositions of a wide variety will be studied. Introduction to ensemble performance and rehearsal techniques is studied. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU

MUS 125 COMMUNITY SYMPHONIC BAND 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Prerequisite: Audition
This is a concert band, playing the finest traditional and contemporary band literature available. Emphasis is on a high degree of individual musicianship and fine ensemble playing. Required participation in concerts may include both on-campus and off-campus

events. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

MUS 125A COMMUNITY BAND 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Prerequisite: Audition
The community band is dedicated to the performance of popular, family-oriented literature. Emphasis will be placed upon the development of individual musicianship through both large group and small group rehearsal. Musical compositions of a wide variety will be studied with an emphasis on medleys, marches, and overtures. Ensemble performance and rehearsal techniques are studied. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU

MUS 126 PEP BAND 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Recommendation: Music background preferred.
The Pep Band provides entertainment music before and during home football games in the fall season. Additional performances may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.
*Transfer Credit: CSU; UC**
**UC credit limits may apply. MUS 126 and Physical Education courses with #'s combined: maximum credit, 4 units.*

MUS 127 ORCHESTRA 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Prerequisite: Audition
The orchestra is dedicated to the performance of standard orchestral literature. Emphasis will be placed upon the development of individual musicianship through both large group and small group rehearsal. Musical compositions of a wide variety of styles will be studied. Required participation in concerts may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

MUS 128 COMMUNITY ORCHESTRA 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
The community orchestra course is dedicated to the performance of standard orchestral literature. Emphasis will be placed upon the development of individual musicianship through both large group and small group

rehearsal. Musical compositions of a wide variety of styles will be studied. Required participation in concerts may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

MUS 129 WOODWIND ENSEMBLE 1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
Prerequisite: Audition
This class provides each individual student the opportunity to learn and execute the principles of woodwind ensemble playing that only intimate chamber music can provide. Among the topics covered will be musical styles, phrasing, balance and blending techniques, intonation, rehearsal techniques, and performance experience. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

MUS 130 BRASS ENSEMBLE 1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
Prerequisite: Audition
This class provides each individual student the opportunity to learn and execute the principles of brass ensemble playing that only intimate chamber music can provide. Among the topics covered will be musical styles, phrasing, balance and blending techniques, intonation, rehearsal techniques, and performance experience. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

MUS 131 PERCUSSION ENSEMBLE 1.5 UNITS

Class hours: 2.0 Laboratory
Prerequisite: Audition
This class provides each individual student the opportunity to learn and execute the principles of percussion ensemble playing that only intimate chamber music can provide. Among the topics covered will be musical styles, phrasing, balance and blending techniques, intonation, rehearsal techniques, and performance experience. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

MUS 132 GUITAR ENSEMBLE 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Prerequisite: MUS 120 or equivalent with a grade of Pass or "C" or higher, or audition
This course is for the intermediate and advanced guitar student, who will gain experience performing music in ensemble situations. Emphasis is given in achieving a professional level of musicianship. Students

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will be required to perform two concerts, attend extra rehearsals, perform in festivals, practice in music department facilities and provide concert music for campus events. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 133 **STAGE BAND** **2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This course is designed for the student desiring to enter the fields of professional dance music, radio, or theatre orchestra work. Opportunity is provided for practical experience in organizing instrumental combinations of all kinds and sizes. Training is given in standard dance-band phrasing and improvisation. Nationally-known guest artists appear with the group, and opportunities are provided to make professionally-engineered recordings. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 134 **JAZZ ENSEMBLE** **2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: Audition

The community jazz ensemble is dedicated to the performance of standard jazz band literature. Emphasis will be placed upon the development of individual musicianship through both large group and small group rehearsal. Musical compositions of a wide variety of styles will be studied. Required participation in concerts may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 135 **THIS BUSINESS OF MUSIC** **3.0 UNITS**

Class hours: 3.0 Lecture

This course focuses on the music business as it relates to the market place and job opportunities. It teaches the student about the important jobs in the industry and their duties and responsibilities. Topics include the process of promotion, publicity, management, touring, recording, contracts, accounting, artists relations and development, marketing, advertising, copyrights, and related music fields.

Transfer Credit: CSU

MUS 136 **STRING ENSEMBLE** **1.5 UNITS**

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This class provides each individual student the opportunity to learn and execute the principles

of string ensemble playing that only intimate chamber music can provide. Among the topics covered will be musical styles, phrasing, balance and blending techniques, intonation, rehearsal techniques, and performance experience. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 138 **COMMUNITY CHORUS** **2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

This choral ensemble is designed for the student who has little or no previous vocal experience. Emphasis will be placed on the development of individual musicianship through the study of musical styles, vocal concepts and repertoire. A variety of traditional choral music ranging from renaissance to the twentieth century will be studied and performed. Required participation in concerts may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 138A **COLLEGIATE CHORALE** **2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This course is designed for the student who has had some previous vocal experience. Emphasis will be placed on the development of individual musicianship through the study of musical styles, vocal concepts, and repertoire. A variety of traditional choral music ranging from the Renaissance to the twentieth century and beyond will be studied and performed with a particular emphasis on major choral works. Required participation in concerts may include both on-campus and off-campus events. This course may be taken a maximum of 4 times.

Transfer Credit: CSU, UC

MUS 139 **GOSPEL CHOIR** **2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

This choral ensemble is designed for the student who has had little or no previous vocal experience. Emphasis will be placed upon the development of individual musicianship through the study of vocal concepts and repertoire. A variety of gospel styles ranging from traditional to contemporary will be studied and performed. Required participation in concerts may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 140 **POP CHOIR** **2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: By Audition

This choral ensemble is designed for the student who has had previous vocal experience. Emphasis will be placed upon the development of individual musicianship through the study of musical styles, vocal concepts and repertoire. A wide variety of music ranging from Broadway musicals to pop and jazz charts will be studied. Required participation in concerts may include both on-campus and off-campus events. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 141 **POP/ROCK ENSEMBLE** **2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This course will provide the students an opportunity to learn and perform contemporary music with an emphasis on pop, rock, and Latin. Aspects to be considered will include style, repertoire, instrumentation, equipment, visual presentation, and management. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 142 **JAZZ IMPROVISATION** **1.0 UNIT**

Class hours: 1.0 Lecture/2.0 Laboratory

Recommendation: Audition.

This course in basic techniques in improvisation begins with simple question-and-answer phrases and progresses to extended solos. It covers detailed and applied knowledge of chord progressions and stresses harmonic forms employed in all phases of jazz. Emphasis will be on the blues, 32-bar standards, and jazz pieces. Included are performance, analysis, listening, written improvisations, playing with records, and transcribed solo study. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 143 **THE JAZZ AND POPULAR SINGER** **3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: Audition

This course focuses on the study of jazz and popular singing styles with emphasis on historical elements, stylistic concepts, theoretical practices, performance procedures, and its function within the music industry. Topics include harmony and ear training for jazz and popular singers, historical analysis of significant singers of this genre, small vocal group jazz ensemble, studio recording

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techniques, improvisation, solo stylization, ensemble sound concepts, and the study of popular literature. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 144

ELECTRONIC SYNTHESIZER I 2.0 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This class is an introduction to MIDI, synthesizer programming, sampling, computer sequencing, drum machine technique, and computer composition. Also, the course introduces the basics of acoustics and the physical properties of sound. Compositions will be required of all students. Individual studio time is provided. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

MUS 145

ELECTRONIC SYNTHESIZER II 1.0 UNIT

Class hours: 1.0 Lecture/6.0 Laboratory

Prerequisite: MUS 144 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of tape studio practices, digital recording, synthesizer performance, and computer based recording and processing. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

MUS 146

RECORDING TECHNIQUES 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Recommendation: MUS 105 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to the methods of audio recording for the performing arts. It includes the technical, as well as the artistic, aspects of recording. Emphasis will be placed on the practical use of audio equipment both in a studio situation and on location. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 147

BASIC APPLIED MUSIC 1.0 UNIT

Class hours: 1.0 Lecture/6.0 Laboratory

Corequisite: Enrollment in a music-performance course related to the student's private study: MUS 124,125,126,127,129,132,133,134,138,139,140, or 142

This course offers individuals instruction in voice, piano, or band/orchestral instruments with an assigned instructor on the applied music staff. Emphasis will be placed on study at the beginning level of technique and repertoire. It includes one hour per week recital attendance and one half hour individual lesson per week. Performance for a faculty

jury will be required at the end of the semester. This course may be taken for a maximum of 4 units.

Transfer Credit: CSU; UC

MUS 148

PRIVATE STUDY/TECHNIQUE 1.0 UNIT

Class hours: 1.0 Lecture/6.0 Laboratory

Corequisite: Enrollment in a music-performance course related to the student's private study: MUS 124,125,126,127,132,133,134,138,139,140 or 142

This course offers individual instruction in voice, piano, band/orchestral instrument with an assigned instructor on the applied music staff. Emphasis will be placed on technique development at the intermediate level necessary to form stronger musical skills and technical facility. Includes one hour per week recital attendance and one-hour individual lesson per week. Performance for a faculty jury will be required at the end of the semester. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 149

PRIVATE STUDY/MUSICAL PREPARATION 1.0 UNIT

Class hours: 1.0 Lecture/6.0 Laboratory

Corequisite: Enrollment in a music-performance course related to the student's private study: MUS 124,125,126,127,132,133,134,138,139,140 or 142

This course offers individual instruction in voice, piano, or band/orchestral instruments with an assigned instructor on the applied music staff. Emphasis is on musical preparation of musical style and interpretation for the intermediate student. Repertoire will be representative of various periods and composers. It includes one hour per week recital attendance and one-hour individual lesson per week. Performance for a faculty jury will be required at the end of the semester. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 150

PRIVATE STUDY/ PERFORMANCE PRACTICE 1.0 UNIT

Class hours: 1.0 Lecture/6.0 Laboratory

Corequisite: Enrollment in a music-performance course related to the student's private study: MUS 124,125,126,127,132,133,134,138,139,140 or 142

This course offers individuals instruction in voice, piano, or band/orchestral instruments with an assigned instructor on the applied music staff. Emphasis is on performance practice and continued study of advanced

repertoire representative of various periods and composers. It includes one hour per week recital attendance and one-hour individual lesson per week. Performance for a faculty jury will be required at the end of the semester. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 151

PRIVATE STUDY/RECITAL PREPARATION 1.0 UNIT

Class hours: 1.0 Lecture/6.0 Laboratory

Corequisite: Enrollment in a music-performance course related to the student's private study: MUS 124,125,126,129,130,131,132,133,134,138,139,140, or 142

This course offers applied instruction in voice, piano, or traditional band or orchestral instrument with an assigned instructor on the applied music staff. Emphasis is placed on technique and repertoire representative of various periods and composers. It includes one hour per week recital attendance and one half hour individual lesson per week. Performance for a faculty jury will be required at the end of the semester. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

MUS 152

THE ART OF TEACHING BEGINNING PIANO 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: MUS 112 and MUS 105 or equivalent with a grade of Pass or "C" or higher.

The course introduces basic principles of successful piano teaching at the beginning level. Special problems encountered in teaching will be addressed. Emphasis will be placed on private and group piano teaching methods, personal development as a teacher and musician, analyzing and selecting appropriate literature, development of technique and reading ability in beginning-level students.

Transfer Credit: CSU

MUS 153

THE ART OF TEACHING INTERMEDIATE PIANO 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: MUS 152 or equivalent with a grade of Pass or "C" or higher.

The course advances students' knowledge of principles and skills essential to teaching piano at the intermediate level. Emphasis will be on continued development of technique and reading ability in intermediate level students; private and group piano teaching methods; selection of intermediate literature; Baroque, Classical, Romantic and 20th century styles;

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studio organization and personal development as teacher and musician.

Transfer Credit: CSU

MUS 154 **PIANO ENSEMBLE** **1.5 UNITS**

Class hours: 1.0 Lecture/1.5 Laboratory

Prerequisite: MUS 112 or equivalent with a grade of Pass or "C" or higher.

This course will survey various origins and history of piano ensemble repertoire. Emphasis on development of basic technical skill, sight reading, transposition, improvisation, correct harmonization of melodies with piano accompaniments, principles of accompanying soloists and ensemble playing. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 160 **MARCHING BRASS** **ENSEMBLE** **1.5 UNITS**

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This course is designed for the brass student desiring to enter the field of marching music, education, studio, radio, and theatre orchestra work. Opportunity is provided for practical experience in organizing marching brass combinations of all styles and sizes. Training is given in standard marching brass phrasing and technique. Nationally known educators/clinicians will, at times, assist the group. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 161 **MARCHING PERCUSSION** **ENSEMBLE** **1.5 UNITS**

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This course is designed for the student desiring to enter the fields of professional percussion playing in studio, radio, and theatre orchestra work. Opportunity is provided for practical experience in organizing marching percussion combinations of all styles and sizes. Training is given in standard marching percussion phrasing and technique. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 162 **MARCHING PAGEANTRY** **ENSEMBLE** **1.5 UNITS**

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This course is designed for the student desiring to enter the fields of music and pageantry performance. Opportunity is provided for

practical experience in organizing marching and pageantry combinations of all styles and sizes. Training is given in standard marching and maneuvering techniques. Nationally known educators/clinicians may assist with the group, and opportunities are provided to perform learned material. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 163 **DRUM AND** **BUGLE CORPS** **1.5 UNITS**

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: Audition

Recommendation: MUS 160 or equivalent with a grade of Pass or "C" or higher.

This course in drum and bugle corps is designed for the student desiring to enter the fields of music and pageantry education and performance. Opportunities are provided for practical experience in organizing marching and pageantry combinations of all styles and sizes. Training is given in standard drum and bugle corps format. Nationally known clinicians may assist with the group, and opportunities are provided to perform learned material. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 164 **TOURING DRUM AND** **BUGLE CORPS** **1.5 UNITS**

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: Audition

This course will involve extensive touring on a local, regional, and national level. Opportunity is provided for practical experience in organizing marching and pageantry combinations of all styles and sizes. Training is given in standard Drum and Bugle Corps format. Nationally known educators/clinicians may assist with the group, and opportunities are provided to perform learned material. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

MUS 171 **OCCUPATIONAL** **WORK EXPERIENCE** **IN MUSIC** **1.0 UNIT**

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Music, in a declared Music major. One unit of Occupational Work Experience in Music requires 60 non-paid hours or 75 paid hours of work per semester.

Recommendation: None.

Work Experience/Career Internship provides the opportunity for students to apply skills

and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their approved projects are completed. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

MUS 244 **DIGITAL AUDIO** **POST PRODUCTION** **3.0 UNITS**

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: MUS 144 or equivalent with a grade of Pass or "C" or higher.

This course covers the assembly of various audio elements (dialog, music and effects) into a play list for synchronization to picture. Non-linear digital video editing systems will be utilized to create finished programs for digital video, animation, television, and computer games. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

MUS 298 **DIRECTED STUDIES** **1.0 UNIT**

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

MUS 299 **DIRECTED STUDIES** **2.0 UNITS**

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction

of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

NEW PRODUCT DEVELOPMENT

(Technology Division)

NPD 100 PRODUCT DEVELOPMENT IN A GLOBAL ECONOMY 3.0 UNITS

Class hours: 3.0 Lecture

This course will introduce students to product development in a global economy. Students will learn about identifying customer needs, generating specifications, selecting concepts, selecting a fabrication or procurement process, generating a prototype, and testing the product. Emphasis will be placed on the lean product development system model and how to integrate suppliers, either local or global, into the product development process.

Transfer Credit: CSU

NPD 101 INNOVATION USING RAPID PROTOTYPING 3.0 UNITS

Class hours: 3.0 Lecture

This course will introduce students to the technology of rapid prototyping used in automotive aftermarket innovations. Additive and subtractive technologies will be introduced. The focus of the class will be on performance, suspension, lighting, interior and exterior style products used in the automotive field. Students will also learn about how to import and export models from and to rapid prototyping software packages. Digital point to point and laser triangulation scanning in 3D will also be introduced in this class.

Transfer Credit: CSU

NPD 102 QUALITY SYSTEMS FOR AUTOMOTIVE INDUSTRIES ISO 16949 3.0 UNITS

Class hours: 3.0 Lecture

This course is a survey of International Standards Organization (ISO) ISO 16949, the quality standard used in automotive industries. Students will learn about the relationship of ISO 16949 with other quality systems and the importance of registration. Emphasis will be placed on how to implement the standard and recognize how auditors interpret the standard.

Transfer Credit: CSU

NPD 103 TOOLING AND MATERIALS FOR NEW PRODUCT DEVELOPMENT 3.0 UNITS

Class hours: 3.0 Lecture

This course will introduce students to the tooling and materials used in new product development. Students will learn about metallic and non-metallic materials used in the design of tooling. Emphasis will be placed on the lean development of tooling and how to integrate suppliers to reduce overall cost of product development.

Transfer Credit: CSU

NPD 104 PRODUCTIVITY IN AUTOMOTIVE AFTERMARKET MANUFACTURING 3.0 UNITS

Class hours: 3.0 Lecture

This course will introduce students to productivity issues in new product development for the automotive aftermarket. Students will learn about proper process selection used in the design of new products and tooling. Emphasis will be placed on the economic lean development of products and tooling in the automotive aftermarket.

Transfer Credit: CSU

NPD 105 ELECTRONIC SYSTEMS AND INTEGRATION IN AUTOMOTIVE AFTERMARKET 3.0 UNITS

Class hours: 3.0 Lecture

This course will introduce students to electronic systems and integration in automotive aftermarket products. Students will learn about the role of electronics in sound, light, instrumentation, wheels, security, exhaust, fuel, and emission systems. Emphasis will be placed on understanding existing vehicle systems and how to integrate newly designed components.

Transfer Credit: CSU

NURSING

(Health Occupations Division)

NRSNG 3 (Not Degree Applicable) PREPARING FOR NURSING 2.0 UNITS

Class hours: 2.0 Lecture

This course is designed for students planning to enter the nursing career. Content includes how to use time and other resources to become a successful nursing student. Overviews of nursing career options and educational pathways are presented, along with trends affecting nursing's future. Students are introduced to communication skills for use with a diverse student and patient population.

NRSNG 5 (Not Degree Applicable) REMOVING BARRIERS TO SUCCESS IN NURSING 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: Achievement of a score below benchmark on the diagnostic assessment test.

This course is designed to facilitate the success of students pursuing entry into a nursing program who did not reach the benchmark score on the diagnostic assessment test. The aim of the course is to aid students in identifying and strengthening areas needed in academic preparation for a nursing program, as well as to develop critical thinking and study skills essential to success. Resources available to facilitate student success will be identified and explored. This course is offered on a credit/no credit basis only. This course may be taken a maximum of 3 times.

NRSNG 25 (Not Degree Applicable) CLINICAL WORKSHOP 1 0.5 UNIT

Class hours: 0.3 Lecture/1.8 Laboratory

Prerequisite: Current license as a License Psychiatric Technician or Licensed Vocational Nurse or completion of one or more nursing core course in an approved/accredited nursing program.

The purpose of this course is to provide the nursing applicant with theoretical concepts and skill demonstration and practice related to clinical competency necessary for advanced placement students entering the first year of the nursing program. Included are assessment processes and individualized planning to assist the student in attaining the necessary level of skills competence to support success in the nursing program. This course is offered on a credit no credit basis only. This course may be taken for a maximum of 3 times.

Announcement of Courses

NRSG 26 (Not Degree Applicable)

CLINICAL WORKSHOP 2 0.5 UNIT

Class hours: 0.3 Lecture/1.8 Laboratory

Prerequisite: Current license as a Licensed Psychiatric Technician or Licensed Vocational Nurse or completion of one or more nursing core courses in an approved/accredited nursing program.

The purpose of this course is to provide the nursing applicant with theoretical concepts and skill demonstration and practice related to clinical competency necessary for advanced placement students entering the second year of the nursing program. Included are assessment processes and individualized planning to assist the student in attaining the necessary level of skills competence to support success in the nursing program. This course is offered on a credit/no credit basis only. This course may be taken for a maximum of 3 times.

NRSG 48T (Not Degree Applicable)

ELECTIVE NURSING - TUTORIAL 0.5 UNIT

Class hours: 2.0 Laboratory

Prerequisite: Admission to the Nursing Program.

This course is designed as an elective course to facilitate the development of nursing skills that are taught in the Nursing Program. This course is also designed to assist students who need time to practice nursing skills to achieve mastery in performance in a supervised lab setting through individualized and mediated instruction. It is open to students in continuous enrollment, readmitted, or transferring into the Nursing Program. This course is offered on a credit/no credit basis only. This course may be taken a maximum of 4 times.

NRSG 80 (Not Degree Applicable)

NURSING PROCESS DOCUMENTATION 1.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory

Prerequisite: NRSG 210 or equivalent with a grade of Pass or "C" or higher or admission to the Nursing Program.

The focus of this course is on the documentation of the physical and psychosocial assessment of patients utilizing the Nursing Process. Emphasis is also placed on the reporting and recording of assessment findings using appropriate medical terminology applicable to the clinical nursing setting. This course may be taken a maximum of 3 times.

NRSG 200 PHARMACOLOGY FOR NURSES

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: A&P 150 and A&P 151 or equivalent with grades of Pass or "C" or higher.

This course introduces the student to the fundamentals of pharmacology as they relate to the nursing management of drug therapy. Prototype drugs, selected from the major drug classes, are used to illustrate important drug facts. Core drug knowledge is integrated with core patient knowledge to provide a framework for nursing management in drug therapy.

Transfer Credit: CSU

NRSG 210 FUNDAMENTALS OF NURSING 5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory

Prerequisite: Admission to Nursing Program.

Corequisite: NRSG 211 and NRSG 213A

The focus of this course is on the introduction of theory and beginning clinical application of the Nursing Process and the Roy Adaptation Model when providing care for geriatric patients in long-term care settings. Emphasis is also placed on the beginning application of therapeutic communication techniques and the acquisition of adult physical assessment skills and fundamental concepts and skills required for patient care. Students are evaluated using the Educational Competencies for Graduates of Associate Degree Nursing Programs as identified by the National League for Nursing Task Force. The student must receive a grade of "C" or higher in the lecture component and a satisfactory grade in clinical lab to pass the course.

Transfer Credit: CSU

NRSG 211 INTRODUCTION TO THEORETICAL FRAMEWORK 1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: Admission to the Nursing Program or possession of an active Licensed Psychiatric Technician License.

This course introduces beginning nursing students and Licensed Psychiatric Technicians to the theoretical framework used in the Cerritos College Nursing Program. The Nursing Process as a dynamic, systematic way of delivering patient care is defined and demonstrated. Students are introduced to concepts central to nursing theory and elements of the Roy Adaptation Model. Students learn to integrate the Nursing Process and Roy Adaptation Model into clinical nursing practice when planning and providing patient care. The student must receive a grade of Credit or "C" or higher to pass this course.

Transfer Credit: CSU

NRSG 212 MEDICAL-SURGICAL NURSING 1 5.0 UNITS

Class hours: 2.5 Lecture/7.5 Laboratory

Prerequisite: NRSG 210 or equivalent with a grade of Pass or "C" or higher. For Option B students: Possession of an active Licensed Psychiatric Technician license and admission to the Nursing Program

Corequisite: NRSG 211 may be taken prior to admission or concurrent

Recommendation: NRSG 213A or NRSG 200 or equivalent with a grade of Pass or "C" or higher.

The focus of this course is on the theory and clinical application of the Nursing Process based on the Roy Adaptation Model when providing care for acutely ill medical-surgical patients with specific conditions. Adult physical assessment skills continue to be applied to patients in an acute care setting. The student must receive a grade of "C" or higher in the lecture component and a satisfactory grade in clinical lab in order to pass the course.

Transfer Credit: CSU

NRSG 213A MAJOR DRUGS AND NURSING MANAGEMENT I 0.5 UNIT

Class hours: 0.5 Lecture

Prerequisite: Admission to the Nursing Program.

This course introduces the student to the nursing management of drug therapy. Prototype drugs, selected from the major drug classes, are used to illustrate important drug facts. Core drug knowledge is integrated with core patient knowledge to provide a framework for nursing management in drug therapy. (Formerly NRSG 213)

Transfer Credit: CSU

NRSG 213B MAJOR DRUGS AND NURSING MANAGEMENT II 1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: NRSG 213A or equivalent with a grade of Pass or "C" or higher.

This course continues the study of the fundamentals of pharmacology as it relates to the nursing management of drug therapy. Prototype drugs, selected from the major drug classes, are used to illustrate important drug facts. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

Announcement of Courses

NRSG 215

ADVANCED PLACEMENT BRIDGE

1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: An active LVN license or current enrollment in a vocational or registered nursing program or completion of one or more Associate Degree Nursing or Bachelor of Science in Nursing courses with a grade of Pass or "C" or higher.

Recommendation: Completion of READ 54, ENGL 52, and MATH 60 or equivalent with grades of Pass or "C" or higher or successful completion of the college placement

This course introduces Licensed Vocational Nurses and students transferring from other nursing programs to the theoretical framework used in the Cerritos College Nursing Program. The roles of the Associate Degree Nurse as Provider of Care, Manager of Care and Member of the Discipline of Nursing are surveyed. The Roy Adaptation Model for Nursing is taught as the basis for providing nursing care. Content also includes communication theory and application, client teaching concepts, assertion theory, and critical thinking foundational skills. Assessment of prior learning is used to guide individual students in preparing for advanced placement in the nursing program.

Transfer Credit: CSU

NRSG 220

MEDICAL-SURGICAL NURSING 3

5.5 UNITS

Class hours: 3.0 Lecture/7.5 Laboratory

Prerequisite: NRSG 211 and NRSG 212 and NRSG 213A or equivalent with grades of Pass or "C" or higher. For Option B and E students: Admission to the Nursing Program.

Corequisite: NRSG 213B.

The focus of this course is on the theory and clinical application of the Nursing Process based on the Roy Adaptation Model when providing care for medical-surgical patients and patients with women's health disorders in acute care settings. The role of the nurse as a manager of care in collaboration with other members of the healthcare team is introduced. The student must receive a grade of "C" or higher in the lecture component and a satisfactory grade in clinical lab in order to pass the course.

Transfer Credit: CSU

NRSG 222

MATERNAL/CHILD NURSING

5.5 UNITS

Class hours: 3.0 Lecture/7.5 Laboratory

Prerequisite: NRSG 220 or equivalent with grades of Pass or "C" or higher.

This course focuses on the theory and clinical application of the Nursing Process based on

the Roy Adaptation Model and concepts related to the role of the Associate Degree Nurse as a Provider of Care for patients giving birth in the acute care setting and care of children in acute and clinic settings. The student must receive a "C" grade or higher in the lecture component and a satisfactory grade in clinical lab in order to pass the course.

Transfer Credit: CSU

NRSG 230

PSYCHOSOCIAL AND COMMUNITY NURSING

5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory

Prerequisite: NRSG 222 or equivalent with a grade of Pass or "C" or higher. For Option C, D, E and F students: Admission to the Nursing Program.

The focus of this course is on the theory and clinical application of the Nursing Process based on the Roy Adaptation Model when caring for clients in psychiatric and community-based settings. The student must receive a grade of "C" or higher in the lecture component and a satisfactory grade in clinical lab in order to pass the course.

Transfer Credit: CSU

NRSG 232

MEDICAL-SURGICAL NURSING 4

5.0 UNITS

Class hours: 2.5 Lecture/7.5 Laboratory

Prerequisite: NRSG 230 or equivalent with a grade of Pass or "C" or higher. For Option C, D, and E students: Admission to the Nursing Program.

The focus of this course is on the theory and clinical application of the Nursing Process and the Roy Adaptation Model when providing care for patients with complex medical-surgical conditions in acute care settings. Continued emphasis is placed on the role of the nurse as a manager of care in collaboration with other members of the healthcare team. The student must receive a "C" grade or better in the lecture component and a satisfactory grade in clinical lab in order to pass the course.

Transfer Credit: CSU

NRSG 240

MEDICAL-SURGICAL NURSING 5

5.0 UNITS

Class hours: 2.5 Lecture/7.5 Laboratory

Prerequisite: NRSG 232 or equivalent with a grade of Pass or "C" or higher. For Option E and F students: Admission to the Nursing Program.

The focus of this course is on the theory and clinical application of the Nursing Process and the Roy Adaptation Model when providing care for patients with increasingly complex medical-surgical conditions in acute care

settings and exposure to specialty care areas. The role of the nurse as a manager of care continues to be emphasized with increased focus on organization, leadership, and delegation skills. The student must receive a grade of "C" or higher in the lecture component and a satisfactory grade in clinical lab in order to pass the courses.

Transfer Credit: CSU

NRSG 242

PROFESSIONAL ROLE TRANSITION

3.0 UNITS

Class hours: 0.5 Lecture/7.7 Laboratory

Prerequisite: NRSG 240 or equivalent with a grade of Pass or "C" or higher.

The focus of this course is on the theory and clinical application of the Nursing Process when providing care for medical-surgical patients in the acute care setting. This course facilitates the transition from student nurse to graduate nurse. The student participates as a preceptee member of the healthcare team and assumes responsibility for a group of patients under the direct supervision of a registered nurse. Course content includes legal and ethical issues related to nursing practice. By the end of this course, the graduate is expected to function satisfactorily within the Educational Competencies for Graduates of Associate Degree Nursing Programs as identified by the National League for Nursing Task Force. The student must receive a grade of "C" or higher in the lecture component and a satisfactory grade in clinical lab in order to pass the course.

Transfer Credit: CSU

NRSG 251

BASIC ADULT PHYSICAL ASSESSMENT

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

Prerequisite: Current or prior enrollment in an accredited nursing program or licensure as a health care provider.

This course focuses on physical examination of healthy adults stressing identification of normal and common abnormal findings in diverse populations. Variations due to normal age-related changes are presented. Examination techniques and elements of assessing functional, cognitive, and fluid status are introduced. Analysis of findings with clinical application is emphasized from the perspective of the entry-level Registered Nurse. Basic physical examination is limited to selected body structures within the following organ systems: integumentary, sensory, respiratory, cardiovascular, gastrointestinal, musculoskeletal, and neurological. This course is offered on a credit/no credit basis only.

Transfer Credit: CSU

NRSG 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

NRSG 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHARMACY TECHNICIAN

(Health Occupations Division)

PHAR 45

RETAIL PRODUCTS FOR PHARMACY CLERKS

2.0 UNITS

Class hours: 2.0 Lecture

This course provides basic knowledge about Over-the-Counter (OTC) products in relation to their accepted therapeutic uses. Students will understand the steps involved in safely choosing a non-prescription product.

PHAR 47

PHARMACY CLERK

CLINICAL EXPERIENCE

2.0 UNITS

Class hours: 0.3 Lecture/6.8 Laboratory

Prerequisite: PHAR 45, PHAR 60, and PHAR 60L or equivalent with grades of Pass or "C" or higher.

This course is designed to provide the student with practical clerk experiences in selected outpatient community pharmacy settings working under the supervision of a registered pharmacist.

PHAR 50

PHARMACEUTICS

1.5 UNITS

Class hours: 1.5 Lecture

Prerequisite: HO 56 or equivalent with a grade of Pass or "C" or higher.

This course is designed to develop the practical application of fundamentals of measurements and mathematics utilized by the pharmacy technician.

PHAR 60

PHARMACY INTRODUCTION

2.0 UNITS

Class hours: 2.0 Lecture

Corequisite: PHAR 60L

This introductory course is designed to provide the student with an overview of the pharmacy profession and the role of the pharmacist, pharmacy technician and pharmacy clerk in community-based retail pharmacies. Students will be introduced to pharmacy law, will learn how to read and process prescriptions, and will be trained in the communication skills necessary to work in a retail setting.

PHAR 60L

PHARMACY SKILLS

LAB INTRODUCTION

1.0 UNIT

Class hours: 0.7 Lecture/1.3 Laboratory

Corequisite: PHAR 60

This course is designed to provide the student with hands-on experience working with a computerized Pharmacy Management System in the retail setting. (Formerly PHAR 40L)

PHAR 62

PHARMACY OPERATIONS I

0.5 UNIT

Class hours: 0.7 Lecture/0.3 Laboratory

Prerequisite: PHAR 60 or equivalent with a grade of Pass or "C" or higher.

This course is designed for the student to develop those skills necessary to work in a setting dealing with patients, pharmacists, and co-workers in an inpatient setting. The student will develop an understanding of hospital distribution systems, medication order transcription and interpretation of various sections of a patient's profile.

PHAR 63

PHARMACY

OPERATIONS II

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: PHAR 62 with grade of Credit or "C" or higher.

Recommendation: Verification of typing proficiency at 30 wpm or BCOT 135 or equivalent with a grade of Credit or "C" or higher.

This course is designed for the Pharmacy Technician major to develop proficiency in skills necessary to both hospital and community pharmacy settings. It will also introduce students to the many contemporary issues facing the pharmacy profession. Included will be use of forms, drug formularies, patient profiles, patient charts, processing of medication orders, drug manufacturing and packaging, and computers.

PHAR 64

PHARMACY OPERATIONS III

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Prerequisite: PHAR 50 and PHAR 63 or equivalent with grades of Pass or "C" or higher. PHAR 63 may be taken concurrently with PHAR 64; however PHAR 64 cannot be taken prior to PHAR 63.

This course is designed to develop proficiency in manufacture and storage of medications, including intravenous admixtures and antineoplastic substances. It includes disease processes, infection control, manufacturing standards and pharmacy equipment.

PHAR 73

PHARMACY TECHNICIAN

OCCUPATIONAL WORK

EXPERIENCE

3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Pharmacy Technician work experience 73 or 20 hours of employment per week for Pharmacy Technician work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in the Pharmacy Technology vocational program with 7 or more units including occupational work experience. Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be repeated for a maximum of 2 times based on the number of hours on the job. (Formerly PHAR 173/174)

Announcement of Courses

PHAR 74 PHARMACY TECHNICIAN OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Pharmacy Technician work experience 73 or 20 hours of employment per week for Pharmacy Technician work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: Enrollment in the Pharmacy Technology vocational program with 7 or more units including occupational work experience. Occupational Work Experience is a supervised employment program in an approved work station related to the student's declared major. Students meet with their instructor for a minimum of one hour per week and will receive credit for on-the-job learning experiences that are new or are an expansion of their regular responsibilities. This course may be repeated for a maximum of 2 times based on the number of hours on the job. (Formerly PHAR 173/174)

PHAR 81 OVER-THE-COUNTER PRODUCTS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MA 161 or A&P 120 or equivalent with a grade of Pass or "C" or higher.

This course provides knowledge about Over-the-Counter (OTC) products in relation to their classification and general actions to help a person select a non-prescription drug safely and rationally.

PHAR 83 PHARMACY TECHNICIAN PHARMACOLOGY I

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MA 161 or A&P 120 or equivalent with a grade of Pass or "C" or higher.

This pharmacology course covers information on drugs affecting the gastrointestinal system, vitamin and mineral balance, infectious diseases, neoplastic disorders, immunological function, hormonal function, mood and behavior and the eyes. Content includes how drugs exert their effects, adverse effects and major indications for drug use. Emphasis will be placed on routes of administration and product types.

PHAR 85 PHARMACY TECHNICIAN PHARMACOLOGY II

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MA 161 or A&P 120 or equivalent with a grade of Pass or "C" or higher.

This pharmacology course covers information

on drugs affecting the respiratory, integumentary, nervous and cardiovascular systems. Content includes major indications for drug use, how drugs exert their effects, adverse effects and specific implications for consumer awareness. Drugs of abuse, at-risk populations and treatment regimens are included. Emphasis will be on routes of administration and product types.

PHAR 90 CLINICAL EXPERIENCE I

3.0 UNITS

Class hours: 1.0 Lecture/6.7 Laboratory

Prerequisite: PHAR 50, PHAR 63, and PHAR 81 or equivalent with grades of Pass or "C" or higher. Verification of negative chest x-ray or non-reactive T.B. skin test within the last year. This course is designed to provide the student with practical experiences in selected outpatient community pharmacy settings working under the supervision of a registered pharmacist.

PHAR 95 CLINICAL EXPERIENCE II

5.0 UNITS

Class hours: 1.0 Lecture/11.1 Laboratory

Prerequisite: PHAR 64, PHAR 83, and PHAR 85 or equivalent with grades of Pass or "C" or higher.

This course is designed to provide the student with practical experiences in the classroom lab and in selected hospital pharmacy settings working with intravenous additives and sterile extemporaneous packaging areas.

PHAR 98 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

PHAR 99 DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member,

students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

PHILOSOPHY

(Humanities, Social Science Division)

PHIL 100 INTRODUCTION TO PHILOSOPHY

(CAN PHIL 2)

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This is a humanities course developing philosophical concepts through problems and systems of thought in selected Western philosophers such as Socrates, Plato, Aristotle, Augustine, Aquinas, Bacon, Kant, etc; it, furthermore, studies modern movements in Western culture such as dialectical materialism, pragmatism, analytic philosophy, and existentialism.

Transfer Credit: CSU; UC

PHIL 102 INTRODUCTION TO ETHICS

(CAN PHIL 4)

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course represents a survey of the major theories of value in the writings of some prominent philosophies of Western culture and the Asian tradition, with special attention to a critical evaluation of their relevance to educational, ethical, esthetic, religious, and social problems of our times.

Transfer Credit: CSU; UC

PHIL 103 PHILOSOPHICAL REASONING: CRITICAL THINKING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher or a satisfactory completion of the Advanced Placement

Announcement of Courses

English Examination of the College Entrance Examination Board.

This course develops critical thinking skills necessary for evaluating and formulating argumentative/persuasive essays and practice in applying those skills. (Formerly PHIL 202)

Transfer Credit: CSU; UC

PHIL 104 PHILOSOPHY OF CULTURAL DIVERSITY: CHALLENGE AND CHANGE

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 or equivalent with a grade of Pass or "C" or higher is strongly recommended.

This humanities course is designed to create understanding, appreciation, and tolerance of diverse cultures, particularly those of non-Western civilizations which are ethnic minority groups in American culture. Topics covered will include the nature of culture, the epistemology of cultural diversity, world views, religion, traditional values, ethnocentrism, cultural relativism, cultural pluralism, and the philosophy of liberation.

Transfer Credit: CSU; UC

PHIL 106 INTRODUCTION TO LOGIC

(CAN PHIL 6)

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course gives an introduction to the basic principles of inductive and deductive reasoning, the uses of language, definition, analysis of fallacious arguments in various areas, and integration of composition and critical thinking skills.

Transfer Credit: CSU; UC

PHIL 200 WORLD RELIGIONS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or ENGL 155 or equivalent with a grade of Pass or "C" or higher is strongly recommended.

This course presents a comparative study of the major religions of the world including Hinduism, Buddhism, Taoism, Shinto, Judaism, Christianity, Islam, etc. The survey pertains to their origin, historic development, primary source book, theological doctrines and value system.

Transfer Credit: CSU; UC

PHIL 201 INTRODUCTION TO TWENTIETH CENTURY PHILOSOPHY

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Satisfactory completion of READ 42 or equivalent with a grade of Pass or "C" or higher.

This course is a survey of the major philosophical movements that characterize the twentieth century, including the rise of Continental, Anglo-American, Marxist, Feminist, Asian, African, and Latin American philosophies. Students will become familiar with the diversity of styles, methods and approaches twentieth century philosophers have developed in response to the problems of self, subjectivity, consciousness, alienation, anxiety, authenticity, social justice, realism, relativism and the role of meaning and language in philosophical inquiry.

Transfer Credit: CSU; UC

PHIL 204 PHILOSOPHY OF THE BIBLE I (HEBREW SCRIPTURES)

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a general introduction to the philosophical, religious, cultural and historical influences on the development of the Hebrew Scriptures. The methods of critical analysis of Biblical materials from an academic point of view will be presented and discussed.

Transfer Credit: CSU; UC

PHIL 206 PHILOSOPHY OF THE BIBLE II (CHRISTIAN SCRIPTURES)

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a general introduction to the philosophical, religious, cultural and historical influences on the development of the Christian Scriptures. The methods of critical analysis of Biblical materials from an academic point of view will be presented and discussed.

Transfer Credit: CSU; UC

PHIL 298 DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHIL 299 DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHOTOGRAPHY

(Fine Arts, Communication Division)

PHOT 100 INTRODUCTORY PHOTOGRAPHY

(CAN ART 18)

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This is a beginning course in the theory and practice of photography. The lecture portion of the class will emphasize historical trends, contemporary applications, and an appreciation of photography as an art and as a craft. The lab portion will introduce the student to camera technique, film exposure,

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processing, darkroom and computer techniques, lighting, and composition.

Transfer Credit: CSU; UC

PHOT 102 INTERMEDIATE PHOTOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This photography course is a continuation and expansion of principles taught in the introductory class. This course includes the use of special film processing techniques, advanced exposure techniques, archival print processing, toning techniques, and an introduction to large format cameras. Special effects techniques, lighting set-ups, color film and digital photography will also be covered.

Transfer Credit: CSU

PHOT 110 INTRODUCTION TO DIGITAL PHOTOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course provides an introduction to the basics of digital photography. Topics include use of digital cameras; scanning techniques; file compression and formatting; use of image editing software (primarily Adobe Photoshop); printing techniques; and legal, philosophical and sociological issues associated with digital photography. Emphasis is placed on constructing meaning in imagery through digital techniques.

Transfer Credit: CSU

PHOT 112 INTERMEDIATE DIGITAL PHOTOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 110 or ART 192 or equivalent with a grade of Pass or "C" or higher.

This course continues the instruction in digital photographic technique begun in PHOT 110, and explores digital photography as a new visual arts medium. More intensive use of tools and filters in Adobe Photoshop and other art and photo-related software, advanced camera techniques, and scanning and output methods are included with emphasis on constructing meaning in imagery through digital processes.

Transfer Credit: CSU

PHOT 122 COLOR PHOTOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This course provides instruction in the practical and theoretical principles of color photography. The student will examine choices in film, scanning, digital capture, and digital output. Image evaluation will include technical considerations of light, exposure, color correction, computer monitor calibration, and color profiles for printing. Furthermore, color and vision, color theory, and color symbolism will be examined at length. Specific assignments will be addressed with individual and class critiques.

Transfer Credit: CSU

PHOT 130 PHOTO JOURNALISM 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This course deals with the photographer as a journalist, focusing on theory and practice in press and publications photography, with emphasis on using the camera as a reporting and communications tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet and other mass communications media. Students must have access to a 35mm camera. This course is not open to students who are enrolled in or who have received credit in JOUR 130.

Transfer Credit: CSU

PHOT 160 HISTORY OF PHOTOGRAPHY 3.0 UNITS

Class hours: 3.0 Lecture

This course is a survey of the history of photography from its origins to the present, speculating on the future. This course traces the development of photographic theory and practice from its inception, through postmodernism to the present. The major concepts of photographic representation and the impact of photography on society are also covered.

Transfer Credit: CSU; UC

PHOT 171 OCCUPATIONAL WORK EXPERIENCE IN PHOTOGRAPHY 1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Photography, in a declared Photography major. One unit of Occupational Work Experience in Photography requires 60 non-paid hours or 75 paid hours of work per semester.

Recommendation: None.

Work Experience/Career Internship provides the opportunity for students to apply skills

and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their approved projects are completed. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

PHOT 200 ADVANCED PHOTOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 102 or equivalent with a grade of Pass or "C" or higher, or a combination of PHOT 100 and PHOT 110 or equivalent with grades of Pass or "C" or higher.

This course is designed to advance student's knowledge and skills beyond Intermediate Photography. This course will cover advanced large format camera use, studio strobe lighting techniques, digital photography, and professional presentation of photographs. At the end of the semester, student will be expected to present portfolio of photographic prints that represent a body of work. Class will include black-and-white as well as color assignments.

Transfer Credit: CSU

PHOT 230 PORTRAIT PHOTOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This is a course in the theory and practice of portraiture. Lectures will present lighting and contemporary retouching techniques for professional studio portraiture. Topics also include self-portraiture, extended environmental portraiture, typological portraits, narrative, documentary portraiture, candid camera, the snapshot aesthetic, figurative portraiture, directorial portraiture, and fashion. Issues regarding idolatry, gender and sexuality, "the gaze," ethics, exploitation, and legal questions will be explored.

Transfer Credit: CSU

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PHOT 232

APPROACHES TO STUDIO LIGHTING

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This course examines a variety of approaches to studio lighting in photography. Concept development and execution in the studio environment as well as studio construction, location work, and lighting and exposure techniques will be covered. Students will concentrate on a semester-long project in a specialized area of studio work. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

PHOT 234

PORTFOLIO DEVELOPMENT

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 102 or equivalent with a grade of Pass or "C" or higher, or a combination of PHOT 100 and PHOT 110 or equivalent with grades of Pass or "C" or higher.

This course is designed to address the marketing aspects of photography. Preparation of portfolios, care of original photographs, photography markets, legal aspects, and gallery exhibition are the primary course topics.

Transfer Credit: CSU

PHOT 240

EXPERIMENTAL PHOTOGRAPHY

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This is a course in the theory and practice of experimental photography. Content includes a variety of approaches that differ from standard photography, including experiments with cameraless photography, photomontage, chance procedures, 3-D photography, the slide show, and new genres of photo-based art-making involving sculpture, installation, projection, and performance.

Transfer Credit: CSU

PHOT 242

NON-SILVER PHOTOGRAPHY

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This course explores historical and photographic processes (printing-out processes) which utilize hand-applied emulsions and large contact negatives in the production of photographic imagery. Emphasis is placed on the use of process for communicative content.

Transfer Credit: CSU

PHOT 250

CONTEMPORARY PHOTOGRAPHIC EXPRESSION

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This course is an in-depth study of the use of visual language for contemporary photographic expression. Imagery is stressed, with process used as the tool for achieving a particular expression. Students will explore photographic genres, as well as discover the uniqueness of their own approach through the creation of a personal body of work.

Transfer Credit: CSU; UC

PHOT 252

PHOTOGRAPHY OF THE LANDSCAPE

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Pass or "C" or higher.

This course examines the interpretation of the landscape through the medium of photography. Theories of photographic approaches to the landscape and its development and industrialization are stressed. Topics include preparation for field work, film types, exposure techniques, appropriate equipment and care, and printing techniques. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

PHOT 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHOT 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHYSICAL EDUCATION

(Health, Physical Education Division)

PE 100

INTRODUCTION TO PHYSICAL EDUCATION AND SPORT

2.0 UNITS

Class hours: 2.0 Lecture

This course is a survey of physical education and sport along with the allied fields and their significance in the school and non-school program. Emphasis will be placed on the acquisition of leadership skills and knowledge in planning, organizing, presenting and evaluating activities. Additionally, career opportunities in physical education and all related fields will be surveyed.

Transfer Credit: CSU; UC

PE 101A#

SPORT OFFICIATING FOR FOOTBALL

1.0 UNIT

Class hours: 1.0 Lecture

Theory and practice are combined in a study of the organization and techniques of officiating football.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

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PE 101B# SPORTS OFFICIATING FOR MEN'S AND WOMEN'S BASKETBALL 1.0 UNIT

Class hours: 1.0 Lecture
This course is designed to give the student a detailed study of the techniques of officiating men's and women's basketball.
*Transfer Credit: CSU; UC**
**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 102A# SPORTS OFFICIATING FOR BASEBALL 1.0 UNIT

Class hours: 1.0 Lecture
This course is an in-depth study of the mechanics and rules of officiating baseball.
*Transfer Credit: CSU; UC**
**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 102B# SPORTS OFFICIATING FOR MEN'S AND WOMEN'S TRACK AND FIELD 1.0 UNIT

Class hours: 1.0 Lecture
This course is an in-depth study of the organization and techniques of officiating track and field and cross-country.
*Transfer Credit: CSU; UC**
**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 105 STUDENT ATHLETES IN SOCIETY 2.0 UNITS

Class hours: 2.0 Lecture
This course provides students with an analysis and interpretation of issues affecting student athletes in past and present societies. Physiological, sociological, and psychological aspects of student athletes as related to sport and education will be covered. Students will plan for future career opportunities.
Transfer Credit: CSU

PE 106 WOMEN IN SPORTS 3.0 UNITS

Class hours: 3.0 Lecture
This course provides students with a chronological history, analysis and interpretation of people, events and issues affecting women in sports, in past and present societies. Physiological, sociological and psychological aspects of female athletes as related to sport, history and education will be covered.

Students will gain an understanding of the significant events of women in athletics from the past to the present and how their significance will determine the future of women in sports. This course is not open to students who are enrolled in or who have received credit in WS 106.

Transfer Credit: CSU; UC

PE 107 INTRODUCTION TO ATHLETIC TRAINING 3.0 UNITS

Class hours: 3.0 Lecture
This course provides instruction in the prevention, assessment, management, and reconditioning of athletic injuries. Taping and bandaging, protective padding, and modalities used for treatment will be presented.
Transfer Credit: CSU; UC

PE 108# PROFESSIONAL ACTIVITIES FOR MEN'S SPORTS I 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Emphasis will be on the theory and practice of football and basketball. The course presents the fundamental knowledge of the sports through techniques of lecture, discussion, and practice.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 109# THEORY OF COACHING BASEBALL 2.0 UNITS

Class hours: 2.0 Lecture
This course includes the study of the various aspects of coaching baseball. Topics include organizing the program, developing skills, offensive and defensive play strategies, and conditioning techniques. This course will assist coaches for youth league, high school and college teams.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 110# THEORY OF TRACK AND FIELD 2.0 UNITS

Class hours: 2.0 Lecture
This course is designed to introduce the basic fundamentals of coaching the events in track and field.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 112# THEORY OF FOOTBALL 2.0 UNITS

Class hours: 2.0 Lecture
This course gives students an understanding of how to coach and teach the skills, principles, and philosophy of offensive and defensive football.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 113# PROFESSIONAL ACTIVITIES FOR CO-ED SPORTS I 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
This course is designed to present the theory and practice of water safety and life saving techniques. It leads to American Red Cross Advanced Life Saving and Water Safety Certificate. This course is recommended for all physical education, recreation, and recreation aide majors, but is open to other interested students.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with #'s combined: maximum credit, 8 units.*

PE 120## SEDENTARY ACTIVITIES FOR STUDENT'S WITH DISABILITIES 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
Recommendation: Completed adapted physical education physician health clearance for participation, adapted physical education health history questionnaire, intake interview assessment procedures. This course is designed for the student who is not able to participate in virtually any physical activity course due to a disability. An individualized sedentary activity program will be tailored to the physical abilities and disabilities of the student. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with #'s combined; maximum credit, 4 units.*

PE 121## ADAPTED CARDIOVASCULAR EXERCISE 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
Recommendation: Completed adapted physical education physician health clearance for participation, adapted physical education health history questionnaire, intake interview assessment procedure.

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

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This course is designed to develop the general fitness level for the disabled students who may not be placed in a regular activity course. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 122##

ADAPTED STRENGTH TRAINING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
Recommendation: Completed adapted physical education physician health clearance for participation, adapted physical education health history questionnaire, intake interview assessment procedures. This course is designed for the student who is not able to participate in the standard circuit weight-training program due to a disability. An individualized weight-training program will be tailored to the physical abilities and disabilities of the student. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 123##

ADAPTED SWIMMING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
Recommendation: Completed adapted physical education physician health clearance for participation, adapted physical education health history questionnaire, intake interview assessment procedures.

This course is designed for the student who is unable to participate in a regular swimming course due to a disability. Improvement in basic swimming and water safety skills along with other pool activities such as hydroexercises and mobility activities will be included. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 124##

WHEELCHAIR ACTIVITIES

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
Recommendation: Completed adapted physical education physician health clearance for participation, adapted physical education

health history questionnaire, intake interview assessment procedures.

This course is designed to develop the general fitness level for the wheelchair bound student through a variety of modified sport activities. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 125

WATER SAFETY

INSTRUCTOR (WSI)

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Recommendation: PE 150B or equivalent, 17 years of age or older and CPR card. Competence in fundamentals of backstroke, sidestroke, breaststroke, crawl and diving.

This course is offered with the authorization of the American Red Cross to provide students with Instructor Candidate Training (ICT), along with the Water Safety Instructor (WSI). It is a comprehensive analysis of principles of movement, organizational strategies utilized in presenting aquatic activities and advanced swimming skills. It also includes an opportunity to qualify for the American Red Cross Water Safety Instructor certification. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

PE 126

LIFEGUARD TRAINING

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
Prerequisite: PE 150A, swimming, beginning or equivalent with a grade of Pass or "C" or higher.

This course offers instruction and practice in American Red Cross Lifeguard Training and Conditioning. Emphasis will be placed on personal safety, safety and self-rescue in the use of small craft, elementary forms of rescue, the swimming rescue, and artificial respiration. American Red Cross certification in Lifeguard Training will be available upon completion of the class. Students must be at least 15 years old at start of semester to qualify for American Red Cross (ARC) certification "Lifeguard Training and Community First Aid and Safety." This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

PE 130##

STRETCHING AND RELAXATION

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course emphasizes the development of flexibility in muscles and joints to prevent injury and improve posture and body

alignment. Relaxation techniques and stretching improve general wellness as they become part of lifestyle. This course may be taken for a maximum of 4 units. (Formerly PE 30.2)

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 131##

WALKING FOR FITNESS

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course will emphasize instruction and practice of walking techniques for speed, distance and endurance. Information on aerobic conditioning, heart rate, stretching and stress reduction will be covered. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 132A##

LOW IMPACT AEROBICS

1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
Student will receive practical instruction in ways to improve their cardiovascular endurance, flexibility and body composition through various low impact aerobic activities. Lectures may include the areas of basic nutrition, body composition, posture analysis and principles of safe and effective exercise. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 132B##

AEROBIC ACTIVITIES

1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
This course is designed to meet the needs of students who want practical instruction in ways to improve their cardiovascular endurance and flexibility through various aerobic activities and stretching movements. Lectures may include areas of basic nutrition, body composition, posture analysis and principles of safe and effective exercise. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

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PE 133##

STEP AEROBICS

1.5 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory

This course is designed as a contemporary workout to improve each participant's strength and cardiovascular fitness level through steady-state stepping movements that will improve health. Students will be exposed to a graduated, continuous system of rhythmic stepping at various platform heights, emphasizing strength, flexibility, and endurance. The class will include proper body alignment and mechanics, basic nutrition, injury prevention, strength training, and personal fitness assessment. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 134##

WATER AEROBICS

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This water aerobics exercise class emphasizes development of cardiorespiratory endurance, flexibility and muscle tone. No swimming skills are required. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 135A##

CIRCUIT WEIGHT

TRAINING BEGINNING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This course covers the fundamentals and techniques of circuit weight training with the use of machines, barbells, dumbbells, jump ropes, and other equipment in the development of an improved level of fitness and physical condition. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 135B##

CIRCUIT WEIGHT TRAINING, INTERMEDIATE/ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course will consist of applied theory as well as physical conditioning. Students will use three types of exercise to reach goals: Isotonic, Isometric, and Isokinetic. Individual instruction will be given along with the discussion of strengths, weaknesses, and nutritional needs of each individual. This

course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 136##

INDOOR CYCLING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

Students will receive practical instruction in ways to improve their cardiorespiratory endurance, muscular endurance, flexibility, and body composition through indoor bicycling. Basic drills and intensity training will be included. Lectures may include. Lectures may include the areas of basic nutrition, body composition, posture analysis, and principles of safe and effective exercise on an indoor bicycle. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 137##

SONG UNIT

2.0 UNITS

Class hours: 6.0 Laboratory

This course is designed to develop, improve and implement the skills necessary to be an effective songleader at the community college level. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC Credit limits may apply. Any of all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 138##

YOGA

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This course is an introduction to Yoga based on basic yoga practices and principles. Instruction will include yoga postures, guided relaxation, and breathing practices. Benefits of yoga include increased flexibility, strength, balance, and body awareness, as well as stress reduction. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 139##

PILATES CONDITIONING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This course is designed to provide a physical and mental conditioning program involving exercises based on the Pilates technique. These exercises are designed to increase body

awareness by increasing circulation, flexibility, and muscular strength. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 141##

FITNESS AND WELLNESS

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

This course is designed to cover topics related to health and wellness including principles of fitness, nutrition, coronary heart disease, and stress management. An exercise lab will include pre-and-post assessment of each student's fitness components such as cardiovascular fitness, muscular strength and endurance, flexibility and body composition. Individualized exercise prescription is provided for each student to improve his/her fitness components. Progress is monitored throughout the semester. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 142##

FITNESS AND WELLNESS FOR OLDER ADULTS

2.0 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory

Prerequisite: Medical Clearance from Physician.

This course is designed for older adults and includes an exercise program consisting of mild cardiovascular, stretching, and weight lifting activities. Testing is provided to determine a physical assessment of the individual for cardiovascular fitness, body composition, strength, and flexibility. Students establish their own training program and participate in the above activities, based on the recommended exercise prescription. Lectures provide information on nutrition, stress management, conditioning, and diet related to the special interests, and diet needs of the aging and older adults. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 143##

PERSONAL FITNESS PROGRAM

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This course is designed as an exercise program consisting of cardio-respiratory, stretching,

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weight training activities. Testing will be provided to determine physical assessment and improvement in the areas of flexibility, strength, endurance, aerobic fitness, and body composition. Each student will establish and practice his or her training program based on recommended exercises. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 144L##

EXERCISE PHYSIOLOGY LABORATORY TECHNIQUES 2.0 UNITS

Class hours: 1.0 Lecture/2.0 Laboratory
This course offers individuals a background in working with various instruments used in exercise testing. Discussions will include the scientific bases for the exercise tests.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 145##

BASIC TRAINING AND PHYSICAL CONDITIONING 1.0 UNIT

Class hours: 0.5 Lecture/2.5 Laboratory
This is a high-energy course incorporating sport-specific activities and physical drills. Training will improve sports performance, as well as have a conditioning effect. Participants entering this class should be at an intermediate to advanced fitness level. This class may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 146##

WEIGHT MANAGEMENT 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to provide strategies for weight management. It will include discussion in the physical, emotional, and nutritional components of a successful weight management plan and provide the opportunity for each student to establish and practice an individualized program. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all these PE courses with ##'s combined; maximum credit, 4 times.*

PE 147##

TRIATHLON BASICS 1.0 UNIT

Class hours: 0.5 Lecture/2.5 Laboratory
Recommendation: Clearance from a medical professional.

This class studies the sport of triathlon. Students will learn the basics of swimming skills, bicycling techniques, running drills, and muscular endurance training. Participants entering this class should be at an intermediate to advanced fitness level. Upon completion of the class, participants will be able to finish a spring distance triathlon. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units*

PE 148##

BODY SCULPTING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed as an exercise program consisting of activities to improve the participant's muscular tone, strength, endurance, and flexibility. The student will participate in body sculpting exercises using various resistance techniques and equipment. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 149A##

BEGINNING JOGGING FOR FITNESS 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to be an introduction to a running program that will benefit a broad spectrum of fitness levels. This class will incorporate a weekly mileage progression with attention to running mechanics and injury prevention. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 149B##

INTERMEDIATE JOG FOR FITNESS 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to build a moderate running base and improve stride mechanics through various training techniques. Training will be monitored through weekly mileage progression, heart rate training, and stride

mechanics. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 150A##

SWIMMING BEGINNING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
Fundamental swimming strokes, elementary diving and water safety. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 150B##

SWIMMING, INTERMEDIATE /ADVANCED 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Intensive drill in backstroke, sidestroke, breaststroke and crawl. Fundamentals of diving and water polo. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 151##

WRESTLING, BEGINNING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to provide instruction and practice in the fundamentals of wrestling. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 153A##

BACKPACKING BEGINNING 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course provides the student with the knowledge and skills necessary for all-season, off-trail backpacking. A backpack trip of at least three days at the end of the course will be required. Student will be expected to furnish their own backpacking equipment. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

Announcement of Courses

PE 153B##

BACKPACKING ADVANCED 2.0 UNITS

Class hours: 1.0 Lecture/6.0 Laboratory
Prerequisite: PE 153A or equivalent with a grade of Pass or "C" or higher.

This course is designed to provide the student with advanced skills and knowledge used in extensive all-season, cross-country backpacking. Emphasis will be placed on survival and navigational skills. Two trips of 4 1/2 days (or one 9-day trip in summer session) will be required. Students will be expected to furnish their own backpacking equipment. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 154A##

BADMINTON, BEGINNING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
Emphasis will be on fundamental strokes and court techniques for singles, doubles, and mixed doubles. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 154B##

BADMINTON, INTERMEDIATE/ADVANCED 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed for badminton players wishing to improve skills and techniques. Emphasis will be on improving form and court strategy in offensive and defensive play. Interclass competition will be held. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 155A##

BOWLING BEGINNING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
The fundamental theory, techniques, rules, etiquette and scoring of bowling will be emphasized. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 155B##

BOWLING, INTERMEDIATE/ADVANCED 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to help the student improve their skill in bowling by correction of individual faults, advanced lane and adjustment techniques and opportunity for league competition in the class. Additional areas of knowledge will include league organization and psychology of competition. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 156A##

GOLF BEGINNING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to teach fundamental techniques of grip, alignment, stance and swing for irons, woods, and putting. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 156B##

GOLF INTERMEDIATE/ADVANCED 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course provides group and individualized instruction to develop and improve the more technical and advanced golf strokes. Specialized strokes include those used in sand traps, side hill and down hill lies, tee shots, and advanced putting techniques. Golf playing strategy for use on the course will be presented. Professional Golf Association (PGA) rules and etiquette will be emphasized. Students will play competitive golf in class. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 158A##

RACQUETBALL BEGINNING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
The emphasis will be on fundamental strokes, techniques of playing, rules and strategy of racquetball for doubles, singles, and "cut-throat" play. This course may be taken for a

maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 158B##

RACQUETBALL INTERMEDIATE/ADVANCED 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to provide fundamental techniques and rules of racquetball. Strategies, offensive and defensive deployments in singles and doubles will be addressed. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 159A##

TENNIS BEGINNING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course will cover fundamental stroke techniques for singles and doubles. The history of tennis, playing area, tennis vocabulary, etiquette and rules will be included. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 159B##

TENNIS INTERMEDIATE/ADVANCED 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed for those players wishing to increase skills in tennis. An emphasis will be on improvement of form, strokes, and serves. Intra-class competition will be held. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 160##

PERSONAL SELF DEFENSE 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
A course designed to provide women with specific attitudes, knowledge and skills useful in self-defense. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

Announcement of Courses

PE 170##

WATER POLO

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
During this course, the student will learn the skills of water polo, which include physical skill development, conditioning, game strategy and terminology. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 171A##

SOFTBALL

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to provide students with the knowledge and practical skills necessary to effectively participate in softball. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 171B##

SOFTBALL, INTERMEDIATE/ ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to provide students with advanced knowledge and practical skills necessary to effectively participate in Fast Pitch softball. Emphasis will be placed on skills which will prepare the students to compete on the intercollegiate softball team. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 171C##

SLOW PITCH SOFTBALL

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to provide students with the knowledge and practical skills necessary to effectively participate in slow-pitch softball. In slow-pitch softball the ball is thrown slowly, traveling in an arc. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 172A##

VOLLEYBALL BEGINNING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to develop the students'

understanding of the basic fundamentals of volleyball by instruction and practice in setting, passing, hitting and team play. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 172B##

VOLLEYBALL INTERMEDIATE/ ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
A course designed for students wishing to improve form, learn advanced skills and court strategies in volleyball. Intra-class competition will be held. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 173##

SOCCER FITNESS AND TECHNIQUE

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This class is designed to develop soccer technique through a conditioning based program. The class will incorporate soccer fitness training while building a foundation of skill development and progression. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 175A##

BASEBALL BEGINNING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to present the fundamental techniques, rules and etiquette of the sport of baseball. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 175B##

BASEBALL INTERMEDIATE/ ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
The course is designed to improve individual techniques for baseball players. Team competitive play situations will be provided in order to increase students' skills, knowledge,

and strategy. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 176A##

BEGINNING BASKETBALL

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course will include instruction and practice in shooting, passing, offensive play, individual and team defense. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 176B##

BASKETBALL, ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Team competitive play situations will be provided in order to increase students' skills, knowledge, and strategy. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 177##

FLAG FOOTBALL

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to teach the fundamental theory and skills involved in the game of flag football. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 178##

FOOTBALL INTERMEDIATE/ ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to teach individual techniques of offense and defense in football. It is recommended for physical education majors and those interested in varsity competition. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

Announcement of Courses

PE 179A##

SOCCER BEGINNING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This class is designed to introduce theory and practice in the fundamental skills and techniques of soccer. Proper conditioning will be stressed. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 179B##

SOCCER INTERMEDIATE/ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Must demonstrate some knowledge of basic Soccer skills. This course is designed to deal with advanced techniques, skills, and tactics for soccer players. It is recommended for those interested in varsity competition. This course may be taken for a maximum of 2 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 200##

BASEBALL

3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to develop the student for intercollegiate competition in baseball. Skill techniques, good sportsmanship, team play, and strategy will be emphasized. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 201##

BASEBALL OFF-SEASON CONDITIONING

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to provide the physical training and preparation to become a competitive baseball athlete. Muscular balance for position specific needs is attained through principles ranging from interval training to resistance training. This course will improve strength, flexibility, endurance and agility. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 202##

BASKETBALL, MEN

3.0 UNITS

Class hours: 10.0 Laboratory
Training for intercollegiate competition in Basketball. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 204##

BASKETBALL, WOMEN

3.0 UNITS

Class hours: 10.0 Laboratory
This course will include training for intercollegiate competition in women's basketball. It includes daily practice of two hours plus an intercollegiate game schedule. Conditioning for competition will be stressed. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 206##

CROSS COUNTRY, MEN

3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to develop the student for intercollegiate competition in cross-country running. Proper warm-up exercises and conditioning will be emphasized. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 207##

CROSS COUNTRY CONDITIONING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course presents techniques for cross-country preseason conditioning and training. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 208##

CROSS COUNTRY, WOMEN

3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to provide training for women in intercollegiate competition in cross-country. This course may be taken for a

maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 210##

FOOTBALL, MEN

3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to provide training for intercollegiate competition in football. Individual skill techniques, good sportsmanship, team play, and strategy will be emphasized. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 211##

FOOTBALL CONDITIONING (OLYMPIC WEIGHTS - POWER LIFTING)

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to prepare students for athletic competition in football. It is an intensive power training program based on the overload principle. This course uses Olympic weights in a structured program that primarily builds power. It does not use isometric or cardio-vascular training. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 212##

FOOTBALL TRAINING AND TECHNIQUES

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course will consist of in-season conditioning, theory of play, opponent evaluation, and goal setting for football. The student will be instructed in each of the above to develop a successful physical and mental approach to weekly contests. This course may be taken for a maximum of 2 times.

*Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 213##

INTERCOLLEGIATE GOLF

3.0 UNITS

Class hours: 10.0 Laboratory
This class prepares students for intercollegiate competition in golf and gives them an opportunity to participate in this competition.

Announcement of Courses

This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 217## SOCCER, MEN 3.0 UNITS

Class hours: 10.0 Laboratory
Training for intercollegiate competition in soccer. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 219## SOCCER, WOMEN 3.0 UNITS

Class hours: 10.0 Laboratory
Training for intercollegiate competition in soccer. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 221## SOFTBALL, WOMEN 3.0 UNITS

Class hours: 10.0 Laboratory
Training for intercollegiate competition in women's softball. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 222## SOFTBALL PRE-SEASON CONDITIONING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
The training and preparation to become a competitive softball athlete involves more than the learning of basic skills. This course will include aerobic conditioning, strength and flexibility conditioning and agility skills. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 223## SWIMMING, MEN 3.0 UNITS

Class hours: 10.0 Laboratory
Training for intercollegiate competition in swimming. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 225## SWIMMING, WOMEN 3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to provide training for women in intercollegiate competitive swimming. Emphasis will be on conditioning and stroke analysis. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 227## TENNIS, MEN 3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to provide training for intercollegiate competition in tennis for men. Conditioning, skills, techniques, court strategy, and rules of play will be emphasized. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 228## TENNIS CONDITIONING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This class will provide training and drills necessary to develop skills and knowledge to compete on a college tennis team. Physical conditioning, aerobics, strength and agility drills will be used. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 229## TENNIS, WOMEN 3.0 UNITS

Class hours: 10.0 Laboratory
This course will prepare students for competition in women's tennis. Emphasis will be on conditioning and learning competitive strategy and techniques. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 231## TRACK AND FIELD, MEN 3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to develop the student for intercollegiate competition in track and field events. Individual techniques and skills for different events will be emphasized. Proper warm-up exercises for different events will be stressed. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 233## TRACK AND FIELD, WOMEN 3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to develop the student for intercollegiate competition in Track and Field events. Individual techniques and skills for different events will be emphasized. Proper warm-up exercises for different events will be stressed. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 234## TRACK AND FIELD CONDITIONING 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
The techniques and training of track and field events are combined in a preseason conditioning program during the fall of the year. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined; maximum credit, 4 units.*

PE 235## VOLLEYBALL, WOMEN 3.0 UNITS

Class hours: 10.0 Laboratory
This course is designed to provide training for intercollegiate competition in women's volleyball. It involves daily practice of two hours plus an intercollegiate match schedule. Conditioning for tournament play will be stressed. This course may be taken for a maximum of 4 times.

Announcement of Courses

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

PE 236## VOLLEYBALL PRESEASON CONDITIONING **1.0 UNIT**

Class hours: 0.5 Lecture/1.5 Laboratory
This course is designed to cover the following three areas: 1) analysis and training of volleyball skills including specialized positions, 2) analysis of various team offensive and defensive systems, and 3) physical conditioning including jump training, strength training and aerobic conditioning. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

PE 238## WRESTLING OFF SEASON TRAINING **2.0 UNITS**

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to provide the physical training and preparation to become a competitive college wrestler. It will be an intensive power-training program based on the overload principle. The course will improve strength, flexibility, and endurance. This course may be repeated for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

PE 239## WATER POLO MEN **3.0 UNITS**

Class hours: 10.0 Laboratory
Training for intercollegiate competition in water polo. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

PE 241## WATER POLO WOMEN **3.0 UNITS**

Class hours: 10.0 Laboratory
Training for intercollegiate competition in water polo. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

PE 243## WRESTLING **3.0 UNITS**

Class hours: 10.0 Laboratory
This course is designed to provide training for intercollegiate competition in wrestling. Individual skills, proper conditioning, and warm-up exercises will be emphasized. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

PE 245## PEP UNIT **2.0 UNITS**

Class hours: 6.0 Laboratory
This course is designed to develop, improve and implement the skills necessary to be an effective cheerleader at the community college level. This course may be taken for a maximum of 4 times.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. Any or all of these PE course ##'s combined; maximum credit, 4 units.*

PE 253## SPORTS PSYCHOLOGY **3.0 UNITS**

Class hours: 3.0 Lecture
This course is designed to provide students with the knowledge and experience related to the psychological aspects of sport and physical activity. This course will also assist students in understanding the forces involved in participation and performance in athletics through exploring cultural, emotional, and social factors that affect concept of sport. The course informs the coach and athlete how to improve sport performance through psychological means.

Transfer Credit: CSU

PE 254 MEASUREMENT AND INTERPRETATION OF FITNESS **3.0 UNITS**

Class hours: 2.5 Lecture/2.0 Laboratory
This course covers the theory and practical application of current testing procedures and instrumentation used in exercise testing. Students learn to perform and interpret the basic measurement protocols for cardiorespiratory endurance, muscular strength and endurance, flexibility, body composition and blood pressure.

Transfer Credit: CSU

PE 255 PROGRAMS AND PRINCIPLES OF CONDITIONING **3.0 UNITS**

Class hours: 3.0 Lecture

This course will provide the student with basic knowledge and principles related to exercise prescription. Students will develop the skills necessary to design and implement training programs as they relate to the components of fitness. Safeguards and effectiveness for all levels of fitness will be addressed.

Transfer Credit: CSU

PE 260 ATHLETIC INJURY ASSESSMENT AND RECONDITIONING **2.0 UNITS**

Class hours: 1.0 Lecture/3.0 Laboratory

This course allows the student to expand upon the knowledge of the mechanism, assessment and reconditioning of athletic injuries. Emphasis is placed upon injury mechanism and assessment, the phases of healing, modalities used in the healing process, and the application of exercise and exercise equipment in the reconditioning of athletic injuries.

Transfer Credit: CSU

PE 261 ATHLETIC INJURY TAPING, BANDAGING AND IMMOBILIZATION **1.0 UNIT**

Class hours: 0.5 Lecture/1.5 Laboratory

This course allows the student to expand upon the knowledge and skill of management, bandaging, and taping of athletic injuries. Emphasis is placed on immobilization of acute injuries, and the techniques used for preventative bandaging and taping of athletic injuries.

Transfer Credit: CSU

PE 265 LEADERSHIP: THEORY & PRACTICE FOR THE FITNESS PROFESSIONAL **3.0 UNITS**

Class hours: 3.0 Lecture

This course is designed to cover topics related to leadership in the fitness industry (athletic coach, physical education instructor, personal trainer, and athletic trainer) and the various styles, theories, and implementation of leadership skills into a fitness setting. Understanding fitness leadership theories will enable the student to establish an effective connection with constituents.

Transfer Credit: CSU; UC

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PE 271A

OCCUPATIONAL WORK EXPERIENCE ATHLETIC

1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Athletic Training, in a declared Athletic Training or Exercise Science major. One unit of Occupational Work Experience in Athletic Training requires 60 non-paid hours or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their approved projects are completed. This course may be taken a maximum of 4 times. (Formerly PE 271)

Transfer Credit: CSU

PE 271B

OCCUPATIONAL WORK EXPERIENCE IN FITNESS

1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Fitness, in a declared Fitness Specialist or Exercise Science major. One unit of Occupational Work Experience in Fitness Specialist requiring 60 non-paid hours or 75 paid hours of work per semester.

Recommendation: None

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students meet with the instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses the strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Students will meet weekly with the instructor until their approved project is completed. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

PE 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PE 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHYSICAL SCIENCE

(Science, Engineering, Mathematics Division)

PS 100

PHYSICAL SCIENCE OF MODERN TECHNOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MATH 40 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of Math Placement Process.

This is a lecture/demonstration course especially designed to develop an understanding of basic science facts and concepts for non-science majors. Study of the sciences that

make our technological world possible will be stressed.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. No credit for PS 100 if taken after a college course in Astronomy, Chemistry, Geology or Physics.*

PS 112

PHYSICAL SCIENCE FOR ELEMENTARY SCHOOL

TEACHERS

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: MATH 105 or MATH 110A or concurrent enrollment or equivalent with a grade of Pass or "C" or higher, or satisfactory completion of the Math Placement Process.

This course is an introduction to basic physical science facts and concepts. The physical sciences that make our technological world possible will be studied. This course is designed to give a general introduction to fundamental concepts and to prepare students for teaching at the elementary school level.

Transfer Credit: CSU

PHYSICAL THERAPIST ASSISTANT

(Health Occupations Division)

PTA 100

PREPARING FOR CAREERS IN PHYSICAL THERAPY

3.0 UNITS

Class hours: 3.0 Lecture

This course introduces students to the field of physical therapy in the rehabilitation setting. Topics covered include documentation in the medical record, interviewing patients, therapeutic interaction with patients and their caregivers, problem identification and helpful responses, assertive roles in rehabilitation, cultural sensitivity, working with persons with disabilities, and patient/family teaching.

Transfer Credit: CSU

PTA 110

INTRODUCTION TO PHYSICAL THERAPY

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: Admission into Physical Therapist Assistant Program.

This course will introduce the student to the history and ethics of physical therapy as they relate to the health care system; the development of the team approach and the philosophy of rehabilitation; the use of physical agents and interventions; body mechanics and proper handling of patients; vital signs and their relationship to patient care.

Transfer Credit: CSU

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PTA 120

KINESIOLOGY

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: A&P 150 and A&P 151 or equivalent with grades of Pass or "C" or higher.

This course is the study of biomechanical principles of human movement and locomotion including specific kinesiological functions of muscles and muscle groups, characteristics of normal posture and gait, and an introduction to the clinical manifestations of muscle dysfunction. Laboratory hours will be used for goniometry, gait observation, muscle action application, and practice.

Transfer Credit: CSU

PTA 125

PATHOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: PTA 110 or equivalent with a grade of Pass or "C" or higher.

This course will include introduction to and instruction in observation of common pathological conditions. Emphasis will be placed on the following systems: musculoskeletal, circulatory, respiratory, gastrointestinal, and genitourinary.

Transfer Credit: CSU

PTA 126

CLINICAL PRACTICUM I

4.0 UNITS

Class hours: 12.3 Laboratory

Prerequisite: PTA 110 with a grade of Pass or "C" or higher

This course is designed to give the student an initial exposure to physical therapy interventions. Students will practice application of heat and cold physical agents, gait and transfer training and medical record review under the direction of the physical therapy clinical instructor. The laboratory experience involves training in one or more physical therapy settings as designated by the instructor. Uniforms are required. This course is offered on a credit/no credit basis only.

Transfer Credit: CSU

PTA 127

SOFT TISSUE

INTERVENTIONS

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: PTA 120 or equivalent with a grade of Pass or "C" or higher.

This course introduces students to interventions for the myofascial system. Content includes the philosophy of care, facilitation of mechanical, neurological and physiological changes and documentation of interventions. Specific topics covered are soft tissue injuries, treatment protocols, muscle adaptations, release, and scar tissue intervention.

Transfer Credit: CSU

PTA 128

PHYSICAL THERAPY ASPECTS OF GROWTH AND DEVELOPMENT

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Acceptance into the Physical Therapist Assistant Program.

This course will introduce the student to concepts and physical therapy principles applied to the developmental process from gestation through adulthood. Emphasis will be placed on neurodevelopment techniques used for abnormal development and for patients with neurological or musculoskeletal disorders occurring in those age groups.

Transfer Credit: CSU

PTA 129

PHYSICAL THERAPY ASPECTS OF AGING AND INTEGUMENTARY MANAGEMENT

1.5 UNITS

Class hours: 1.5 Lecture

Prerequisite: Acceptance into the Physical Therapist Assistant Program.

This course will introduce the student to concepts and physical therapy principles applied to the aging process, including management of integumentary problems. Emphasis will be placed on pathologies and physical therapy interventions for disabilities in aging, burns, and wounds.

Transfer Credit: CSU

PTA 230

THERAPEUTIC EXERCISE

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: PTA 120 or equivalent with a grade of Pass or "C" or higher.

This course is for second year physical therapist assistant majors. Therapeutic exercise introduces the student to the use of exercise as a preventive and intervention mechanism for pathological conditions which influence strength, endurance and flexibility of the human body. Emphasis is placed upon identification and application of exercise, developmental sequence of exercise, types of exercise, and the use of exercise equipment. Instruction includes the body's physiological response to exercise.

Transfer Credit: CSU

PTA 233

PROSTHETICS AND ORTHOTICS FOR ALLIED HEALTH PROFESSIONALS

2.0 UNITS

Class hours: 2.0 Lecture

This course is an introduction to the application of prosthetics and orthotic devices in the rehabilitation process of persons with disabilities. Included in the course is a survey

of commonly used devices, principles of fitting and alignment, criteria for selection of various components, instruction in donning, removing and maintenance of prostheses and orthoses, patient education in use of devices, and development of skill in fabrication of plaster positioning splints for upper and lower extremities.

Transfer Credit: CSU

PTA 235

NEUROLOGY

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: PTA 120 or equivalent with a grade of Pass or "C" or higher.

This course is designed to increase the student's knowledge in the anatomy and physiology of the nervous system. Information regarding the central, peripheral and autonomic systems is provided. Emphasis will be placed on the clinical manifestations of disease or injury to the nervous system as it relates to clinical problems encountered in physical therapy.

Transfer Credit: CSU

PTA 236

CLINICAL PRACTICUM II

4.0 UNITS

Class hours: 12.3 Laboratory

Prerequisite: PTA 125 or equivalent with a grade of Pass or "C" or higher.

This course is designed to teach the student the necessary intervention skills for physical therapy patient care. These skills will include active, passive and resistive exercise programs, as well as continued practice in physical agent application, gait and transfer training. Students will also learn fundamental procedures for clinical education from direct teaching and evaluation of learning. Laboratory experience involves training in one or more physical therapy settings as designated by the instructor. Student uniforms are required. This course is offered on a credit/no credit basis only.

Transfer Credit: CSU

PTA 240

ACTIVITIES OF DAILY LIVING

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: PTA 230 or equivalent with a grade of Pass or "C" or higher.

This course will present instruction in the functional rehabilitation of the disabled. Emphasis will be on understanding and utilization of the physical therapy evaluation for implementation of intervention programs. This course will present clinical instruction activities of daily living training techniques, wheelchair fitting, Jobst measurement and professional presentations.

Transfer Credit: CSU

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PTA 245

ADVANCED MODALITIES 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Prerequisite: PTA 235 or equivalent with a grade of Pass or "C" or higher.

This course is a study of the specific advanced physical therapy interventions and physical agents which are employed in the physical therapy clinic and which require greater expertise in their application.

Transfer Credit: CSU

PTA 246

CLINICAL AFFILIATION 4.0 UNITS

Class hours: 12.3 Laboratory
Prerequisite: PTA 235 or equivalent with a grade of Pass or "C" or higher.

This course will provide supervised instruction in activities of daily living training techniques; wheelchair fitting; types of orthotic and prosthetic devices and their proper application; and splinting and bandaging procedures in selected clinical facilities. Experiences will be in acute rehabilitation or out-patient physical therapy settings. Student uniforms are required. This course is offered on a credit/no credit basis only.

Transfer Credit: CSU

PTA 298

DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PTA 299

DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should

expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHYSICS

(Science, Engineering, Mathematics Division)

PHYS 50

PRINCIPLES OF TECHNOLOGY 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Recommendation: Satisfactory completion of the Math Placement Process or completion of MATH 40 or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in principles of physics and its applications in a technological world. It will include applications of physical, mechanical, fluid, electrical and thermal systems. The course includes integrated labwork. (This course is not open to students with credit in PHYS 100 or higher.)

PHYS 100

ELEMENTARY PHYSICS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: MATH 140 or equivalent with a grade of Pass or "C" or higher.

This course is a general survey of the basic principles of physics. It includes mechanics, heat, sound, electricity and magnetism, light, and modern physics with emphasis on mechanics. It is designed primarily as a prerequisite to courses in Engineering Physics.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. No credit for PHYS 100 if taken after PHYS 101 or PHYS 201.*

PHYS 101 (CAN PHYS 2) (CAN PHYS SEQ A)

GENERAL PHYSICS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: MATH 140 or equivalent with a grade of Pass or "C" or higher.

This course is designed to give students an understanding and appreciation of the basic principles governing the everyday happenings in the physical environment. The subjects covered are mechanics, heat and sound.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. PHYS 101, PHYS*

102 combined with PHYS 201, PHYS 202 and PHYS 203: maximum credit, one series, deduct credit for duplication of topics.

PHYS 102 (CAN PHYS 4) (CAN PHYS SEQ A)

GENERAL PHYSICS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: PHYS 101 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of PHYS 101. It includes electricity and magnetism, light, and modern physics.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. PHYS 101, PHYS 102 combined with PHYS 201, PHYS 202 and PHYS 203: maximum credit, one series, deduct credit for duplication of topics.*

PHYS 201 (CAN PHYS 8) (CAN PHYS SEQ C)

ENGINEERING PHYSICS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: PHYS 100, or PHYS 101, and MATH 170 or equivalent with grades of Pass or "C" or higher.

This is the first course in a three-semester sequence designed to meet the requirements for engineering and related majors. Topics to be covered are mechanics, wave motion and sound.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. PHYS 101, PHYS 102 combined with PHYS 201, PHYS 202 and PHYS 203: maximum credit, one series, deduct credit for duplication of topics.*

PHYS 202 (CAN PHYS 12) (CAN PHYS SEQ B)

ENGINEERING PHYSICS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: PHYS 201 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes the physics of electricity and magnetism. The units of study under electricity include electrostatics, DC circuits and capacitance. Magnetism will cover magnetic fields, force on conductors, torque on coils, motional electromagnetic force and induction, self and mutual inductance, magnetic properties of matter and some basic AC theory.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. PHYS 101, PHYS 102 combined with PHYS 201, PHYS 202 and PHYS 203: maximum credit, one series, deduct credit for duplication of topics.*

PHYS 203 (CAN PHYS 14) (CAN PHYS SEQ B)

ENGINEERING PHYSICS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
Prerequisite: PHYS 201 or equivalent with a grade of Pass or "C" or higher.

This course is a study of heat, light and

modern physics. The unit on heat covers such topics as thermometry, calorimetry, the gas laws, thermodynamics and kinetic theory. Optics include geometric and physical optics. Modern physics touches on selected topics such as photoelectric effects, x-ray production and nuclear effects.

*Transfer Credit: CSU; UC**

*UC credit limits may apply. PHYS 101, PHYS 102 combined with PHYS 201, PHYS 202 and PHYS 203: maximum credit, one series, deduct credit for duplication of topics.

PHYS 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PHYS 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PLASTICS/COMPOSITES

MANUFACTURING TECHNOLOGY

(Technology Division)

PMT 1 (Not Degree Applicable)

PLASTICS FUNDAMENTALS

1.5 UNITS

Class hours: 1.5 Lecture

This course provides students with a basic understanding of occupations, manufacturing processes, and materials used within the plastics industry. Students seeking employment or employees wanting to enhance their skill level and knowledge of plastics will benefit from this course. The curriculum includes a variety of plastics facilities tours, guest speakers, and current industry information. Students have an opportunity to explore their own areas of interest within the plastics manufacturing industry.

PMT 2 (Not Degree Applicable)

INJECTION MOLDING

FUNDAMENTALS

1.5 UNITS

Class hours: 1.0 Lecture/1.5 Laboratory

This course introduces students to the fundamentals of set-up and operation of injection molding equipment in the plastics industry. Safe handling of select machine operations and applied training utilizing current industry equipment is emphasized. Students receiving this training will be able to apply for entry-level positions in the plastics industry. This course may be taken a maximum of 2 times.

PMT 3 (Not Degree Applicable)

PLASTICS REPAIR

1.0 UNIT

Class hours: 1.0 Lecture

This course will introduce students to the theory and practical application of repair for plastics and composites. The study of repair techniques as well as safety in handling hand tools, power tools, and special plastic repair equipment will be covered. It will prepare students for practical hands-on training to gain experience of plastic repairs. Related technical information and demonstrations are presented concerning plastic identification, materials, and processes of repair. The PMT 63L specialty lab class is recommended to perform the hands-on training and repairs.

PMT 4

PLASTICS FABRICATION

2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This is a specialty course for the advanced plastics student or individuals employed in the plastics industry that wish to further their skills and knowledge of plastics. Laboratory experience will continue to stress major areas

of specialization selected by the student, including: materials, process applications, and equipment.

PMT 5 (Not Degree Applicable)

SURVEY OF COMPOSITES

1.5 UNITS

Class hours: 1.5 Lecture

This course provides an overview of manufacturing procedures, processing and materials used within the composites industry. The design, construction, and fabrication of laminated parts, as well as related terminology, will be covered. PMT 63L is recommended.

PMT 40

EXTRUSION FUNDAMENTALS

1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory

This survey course introduces students to the fundamentals of the plastic extrusion process. Selection of equipment and materials are covered as well as current industry terminology. Material handling, safe machine operation and manufacturing processes are emphasized.

PMT 43 (Not Degree Applicable)

PLASTICS MANUFACTURING TECHNOLOGY OCCUPATIONAL

WORK EXPERIENCE

3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Plastics work experience 73 or 20 hours of employment per week for Plastics work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Plastics vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Plastics Manufacturing Technology students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken a maximum of 4 times.

PMT 44 (Not Degree Applicable)

PLASTICS MANUFACTURING TECHNOLOGY OCCUPATIONAL

WORK EXPERIENCE

4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week

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for Plastics work experience 73 or 20 hours of employment per week for Plastics work experience 74. The employment must be in a job related to the student's educational goal.

Corequisite: (1) Enrollment in the Plastics vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for Plastics Manufacturing Technology students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken a maximum of 4 times.

PMT 50 SURVEY OF HYDRAULICS AND PNEUMATICS 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
This course will introduce the student to the fundamentals and principles of hydraulics and pneumatics as they relate to industrial manufacturing and equipment. Applications of each will be explored. The design and understanding of simple circuits and systems in the laboratory will be examined.

PMT 51 COMPOSITES FABRICATION 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Recommendation: PMT 70 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course will provide students with theory and "hands-on" exposure to fabrication methods with "high-tech" materials. Areas of concentration will include composite structures, material choices, design of composite structures, surface bonding, fastener installation, inspection processes and approved repair methods. Fabrication, safety procedures, and material handling are also covered.

PMT 52 MOLD REPAIR AND MAINTENANCE 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
This course is designed to further extend both the students' skills in plastic injection moldmaking and knowledge of the latest technologies used for mold designing and mold fabrication, including the use of

computer programs. Definitions of complex types of plastic injection molds, mathematical solutions of plastic part requirements, computer-generated Electrical Discharge Machining (EDM) electrodes and computer-generated template designs, and surface polishing will be covered.

PMT 53 COMPOSITES REPAIR 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Recommendation: PMT 70 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides students with "hands-on" exposure to composite structural repair techniques. Areas of emphasis include structural and nonstructural (cosmetic) evaluation, material handling, surface preparation, and common types of damages encountered within the composite industry.

PMT 55 PROTOTYPING 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
This course provides insight into contemporary prototyping materials and methods used in industry. The focus is on preproduction consumer products from initial ideas through research and development concluding with manufacturing processes.

PMT 57 SURVEY OF PLASTICS 1.5 UNITS

Class hours: 1.5 Lecture
This course introduces students to a basic understanding of occupations, manufacturing processes and materials used within the plastics industry. Students seeking employment and furthering their knowledge of plastics will benefit from a variety of plant tours, guest speakers, and information in areas of interest within the plastics manufacturing industry.

PMT 58 INDUSTRIAL DESIGN FOR PLASTICS 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This course is for students desiring knowledge of materials and processes used in the field of industrial design and applications. Content includes an overview of plastics technology and lecture/demonstrations in principle processes, including molding, reinforced materials, forming, moldmaking, casting, bonding, laminating, and fabrication.

PMT 59 INJECTION MOLDING I 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This course introduces the student to the

fundamentals of set-up and operation of injection molding equipment as found in industry. Training on actual industrial equipment as well as safe material and equipment handling is stressed. This course may be taken a maximum of 2 times.

PMT 60 EXTRUSION 3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory
Recommendation: PMT 100 or equivalent with a grade of Pass or "C" or higher.

This course provides the student with details that apply to application of the extrusion process. The necessary equipment and materials and their selection are covered in depth. Current industry trends in materials handling, machine operation and how these relate to the manufacturing process are emphasized.

PMT 61 FIBERGLASS TECHNOLOGY 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Recommendation: PMT 100 or equivalent with a grade of Pass or "C" or higher.

This is a course in the industrial use of fiberglass resins, cloth, mat and composite materials. The care and use of equipment (fiberglass chopper gun, gel-coat spray gun) is stressed. Other areas explored are mold laminating, repair, and proper use of resins and fillers. Mixing of resins and safety procedures are emphasized. This course may be taken for a maximum of 2 times.

PMT 62 PLASTIC PACKAGING 2.0 UNITS

Class hours: 2.0 Lecture
This course introduces students to the theory and practical methods of plastic packaging. Areas of concentration are on plastic materials, processing applications and equipment used in consumer and industrial packaging. Material identification and plastic material recycling are also covered.

PMT 63L SPECIALTY PLASTICS LAB 0.5 UNIT

Class hours: 1.5 Laboratory
This is a lab course to complement other courses in the Plastic/Composite curriculum. It is designed to give practical experience in working with plastics and fiberglass materials. This course may be taken for a maximum of 4 times.

PMT 64 PLASTICS PRODUCTION 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This is an intermediate course designed to

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further the student's knowledge of materials and processes. Laboratory work will stress the two major areas of specialization selected by the student from the following: (plastics molding, thermoforming fabrication, reinforced plastics, testing equipment set-up and maintenance, and tooling).

PMT 65 MOLDMAKING 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
This class introduces student to the fundamentals of plastic injection mold designs and fabrication. This course will include basic shop operation, demonstrations, safety and technology of moldmaking in the plastic industry.

PMT 66 HYDRAULICS AND PNEUMATICS 3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory
This course will introduce the student to the fundamentals and principles of hydraulics and pneumatics as they relate to plastics and machine tool equipment. Applications of each will be explored, as well as the design of simple circuits and systems in the laboratory.

PMT 67 FIBERGLASS PRODUCTION 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This is a course in fiberglass/composites manufacturing technology. Areas of concentration include the processes and techniques of fiberglass composites as applied in industry. This course will place the student in production situations similar to those encountered in industry. The student may also have an opportunity to construct a project of his or her own with instructor approval.

PMT 68 PLASTIC MATERIALS AND PROCESS 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This is a course directed toward the study of plastic materials used in processing areas. Proper selection and applications of various thermosetting and thermoplastics are studied. Testing of these materials is covered as specified in the ASTM Standards, including physical properties and chemical properties. Plastic material processing that is covered includes injection molding, compression molding and extrusion.

PMT 70 COMPOSITES TECHNOLOGY 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Recommendation: PMT 67 or equivalent with a grade of Pass or "C" or higher.
This course is designed for students in the field of fiberglass/composites. Emphasis is on the lay-up, vacuum bagging, and cure processing of wet laminating techniques and preimpregnated materials. Also included are processes of resin transfer molding (RTM), filament winding, pultrusion, bonding, and fabrication of composite structures with honeycomb core materials. Laboratory experience will cover safety of handling resins, reinforcements, and related materials.

PMT 71 PLASTICS MANUFACTURING 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This is a specialty course for the advanced plastics student or one employed in the plastics industry. Emphasis will be placed on development of independent problem solving in the student's major area of specialization.

PMT 72 TOOLING FOR PLASTICS 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Recommendation: PMT 61 or PMT 67 or PMT 70 or equivalent with a grade of Pass or "C" or higher.
This course covers basic tooling concepts and materials for making various plastic composite molds. These include laminated, cast and high temperature plastic tools as well as plaster tooling. Design recommendations, physical properties data, repair procedures and techniques will be discussed.

PMT 75 RESIN TRANSFER MOLDING 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
This course is designed for individuals in the field of fiberglass/composites, tooling and production. This class includes lecture/demonstration with "hands-on" Resin Transfer Molding (RTM) moldmaking and production techniques. Emphasis is on converting parts currently being made by the hand lay-up method to the closed mold RTM process is covered. Topics include safe RTM equipment operation, mold design, fabrication, resin and catalyst selection, reinforcements, and core materials. Production methods leading to high output and troubleshooting techniques are discussed.

PMT 76 VACUUM INFUSION PROCESS (VIP)/RESIN TRANSFER MOLDING (RTM) 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
This course is designed for individuals in the field of Fiberglass/Composites, Tooling, and Production. It includes lecture/demonstration with Resin Transfer Molding (RTM) and Vacuum Infusion Process (VIP) moldmaking and production techniques. Emphasis on converting parts currently being made by the hand lay-up method to the closed mold RTM and VIP process are covered. Topics include safe RTM and VIP equipment operation, mold design, fabrication, resin and catalyst selection, reinforcements, and core materials. Production methods leading to high output and troubleshooting techniques are discussed.

PMT 98 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

PMT 99 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

PMT 100 PLASTICS TECHNOLOGY 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This course provides knowledge of materials and processes used in the field of plastic manufacturing today. An overview of plastic

Announcement of Courses

technology and application of production processes, as well as fabrication methods are covered. This course includes molding, forming, reinforced materials, bonding, laminating, and finishing techniques, and plastic materials identification.

Transfer Credit: CSU

PMT 221 MODELMAKING 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This course introduces student to the techniques and various materials used in commercial modelmaking. Areas of emphasis include conventional and current trends, tools and materials, dimensional accuracy, and stylistic value. Hands-on fabrication of commercial models is also covered.

Transfer Credit: CSU

POLITICAL SCIENCE

(Humanities, Social Science Division)

POL 90 INTERNET STRATEGIES FOR CIVIC COMMUNICATION 3.0 UNITS

Class hours: 3.0 Lecture

This course, using traditional and online techniques looks at the growing use of the Internet by public agencies, government relations departments, non-profit and community-based organizations, and political/civic campaigns, and civic institutions. Students will examine the effects of Internet on society as well as the economic impact of Internet on political, public and civic institutions. Strategic issues related to aligning Internet solutions and overall institutional objectives will be addressed including Internet tools for fundraising, targeted communication, volunteer recruitment, polling, management, narrow casting and online collaboration.

POL 101 (CAN GOVT 2) AMERICAN POLITICAL INSTITUTIONS 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a grade of Pass or "C" or higher.

This course is a study of national, state and local government, including the national and state constitutions. It emphasizes the rights and responsibilities of citizens and political processes and issues facing government.

Emphasis will be given to practical policy formulation at all levels.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. POL 101 and POL 201 combined: maximum credit, one course.*

POL 110 CALIFORNIA STATE AND LOCAL GOVERNMENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 20 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a grade of Pass or "C" or higher.

This course stresses the study of California state and local government (counties, cities, and special districts) and California party politics, including the study of the California constitution, intergovernmental relations, regional governments, and urban politics and problems. This course is designed to make available to students concepts, information, and skills which will enable them to better understand the political and governmental systems in which citizens function.

Transfer Credit: CSU

POL 201 INTRODUCTION TO POLITICAL SCIENCE AND AMERICAN GOVERNMENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course is an introductory survey of the field of political science focusing on the major concepts, theories, institutions, processes and policies of government in the United States at the national, state, and local levels. The class is intended for college transfer students, especially political science majors.

*Transfer Credit: CSU; UC**

**UC Credit limits may apply. POL 101 and POL 201 combined: maximum credit, one course.*

POL 210 INTERNATIONAL RELATIONS 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 or equivalent with a grade of Pass or "C" or higher.

This course is a study of basic concepts, theories, and principles of international politics. Emphasis shall be placed on an examination of contemporary world affairs including the importance of nationalism, imperialism, ideology, alliance systems, the rise of the developing nations and the nature of international organizations. Specific case studies shall be examined to illustrate the various principles of international relations.

Transfer Credit: CSU; UC

POL 220 COMPARATIVE GOVERNMENT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory score on the English Placement Process or ENGL 52 with a grade of Pass or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.

This course includes a study of comparative systems of government, differing ideologies, and current political problems. Analyses of revolutionary forces in the 20th century are conducted for political insight and understanding.

Transfer Credit: CSU; UC

POL 230 CONTEMPORARY POLITICAL ISSUES: MIDDLE EAST 3.0 UNITS

Class hours: 3.0 Lecture

A one-semester course emphasizing the basic issues in conflict between nations of the Middle East, this class will investigate, in addition to the political and economic conditions, the social and cultural contributions of the Middle Eastern nations.

Transfer Credit: CSU; UC

POL 260 PUBLIC POLICY AND THE SUPREME COURT 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 or equivalent with a grade of Pass or "C" or higher, and READ 54 or equivalent with a grade of Pass or "C" or higher. This course introduces students to the concept of how public policy is formed, how law reflects and affects societal norms, how legal mores change over time, and how law relates to its execution. Students study civil liberties, Supreme Court cases, and the tension between rights guaranteed by the Bill of Rights. Students learn how gender, race and sexuality have been defined over time by policymakers.

Transfer Credit: CSU

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POL 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

POL 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PSYCHOLOGY

(Humanities, Social Science Division)

PSYC 101

(CAN PSY 2)

GENERAL INTRODUCTORY PSYCHOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory score on the English Placement Process or ENGL 52 with a grade of Credit or "C" or higher and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Credit or "C" or higher.

This course presents a general survey of psychology including development of the individual, learning, thinking, motivation, emotion, and perception. Some study is also given to the understanding and measurement of individual differences, group processes, and the biology of behavior.

Transfer Credit: CSU; UC

PSYC 103

CRITICAL THINKING IN PSYCHOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course covers the nature of critical thinking from a psychological perspective. Focusing on the nature of thinking, the course emphasizes the development of critical thinking applied to scientific inquiry. Through an interactive classroom environment that includes lecture/discussion, debates, and writing exercises, critical thinking skills such as problem solving, determining cause and effect relationships, analyzing arguments, fallacies in thinking, comparing facts with opinion, an understanding probabilities are developed. There will be an emphasis on the application of critical thinking skills to everyday issues.

Transfer Credit: CSU; UC

PSYC 139

ISSUES IN PSYCHOLOGY

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: PSYC 101 or equivalent with a grade of Pass or "C" or higher.

This course is an in depth survey of controversial issues in psychology highlighting interesting points of disagreement among psychologists on a theoretical as well as practical level. Topics include parapsychology, the inheritance of intelligence, biofeedback, pros and cons of psychological testing, meditation, psychosurgery, and deception in psychological experiments.

Transfer Credit: CSU; UC

PSYC 150

PERSONAL AND SOCIAL ADJUSTMENT

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: PSYC 101 and ENGL 52 or equivalent with grades of Pass or "C" or higher.

The focus is the way in which each of the three views may be utilized to explain normal personality adjustment. The class is intended for college transfer students, especially Social Science majors.

Transfer Credit: CSU; UC

PSYC 210

(CAN PSY 6)

ELEMENTARY STATISTICS

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: MATH 80 or MATH 80B or equivalent with a grade of Pass or "C" or higher.

This course emphasizes the calculation and interpretation of the basic statistical measures, with major emphasis upon the meaning, limitations, and applicability of statistical procedures. It is intended for majors and minors in the behavioral sciences, especially in psychology and sociology. The course will include the theory of parametric and non-parametric statistical methods and its application to psychological data. Topics will include descriptive statistics, probability and sampling distributions, statistical inference and power, linear correlation and regression, chi-square, t-test, and one-way analysis of variance. Application of statistical software to psychological data is required.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. PSYC 210 combined with MATH 112: maximum credit, one course.*

PSYC 220

(CAN PSY 8)

RESEARCH METHODS

4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

Prerequisite: PSYC 101 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Satisfactory score on English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

An introduction to the scientific study of psychological principles, this course is intended primarily for prospective psychology majors and other students who plan further work in psychology. Independent projects are developed, performed and reported with emphasis on laboratory and naturalistic techniques of observation and investigation.

Transfer Credit: CSU; UC

PSYC 241

INTRODUCTION TO PSYCHOBIOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: PSYC 101 or equivalent with a grade of Pass or "C" or higher.

This course is a study of the biology of behavior, covering cells and what they do; and the structure, function, and development of the nervous and hormone systems. It also covers sensory processes, the neurological basis of motivated and emotional behavior, along with a series of specific behavioral categories, such as pain, aggression, sleep, dreaming, sexual behavior and mental illness. In addition, it explores the biological basis of the higher

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cerebral functions crucial to human beings as Homo sapiens, learning, memory, intelligence, thought and language.

Transfer Credit: CSU; UC

PSYC 245

DRUGS AND BEHAVIOR

3.0 UNITS

Class hours: 3.0 Lecture

This course entails a detailed survey of the various types of psycho-active drugs that are used and misused in our culture, including legal drugs, such as those used to treat psychiatric disorders, and illegal drugs, including some stimulants, psychedelic, and opiates. The psycho-active properties and the behavioral consequences of drug use and misuse will be the focus. The societal and cultural influences on drug use/misuse, treatment, prevention, history, laws, and ethics will be covered in this course.

Transfer Credit: CSU

PSYC 251

DEVELOPMENTAL PSYCHOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

An integrated study of the social, emotional, cognitive, and biological foundations of the human life cycle from conception to death will be presented in this course. Attention will also be devoted to the study of research methods and the application of research findings to ongoing developmental problems. Implications for personal and professional use will be discussed.

Transfer Credit: CSU; UC

PSYC 261

SOCIAL PSYCHOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

This course emphasizes an introduction to methods and content of social psychology; theories of social behavior; communication; social influence; conformity; aggression; leadership; and, prejudice. Since emphasis will be given to practical applications of research findings, this elective course is recommended for students majoring in the social and behavioral sciences.

Transfer Credit: CSU; UC

PSYC 265

PSYCHOLOGY OF GENDER

3.0 UNITS

Class hours: 3.0 Lecture

This course will examine the psychological issues that are a part of each gender's experiences. An exploration of gender and sex differences and issues specific to women will also be undertaken. Topics include the psychology of reproduction, ability, achievement, work, social interactions,

sexuality, growing older, violence against women, and mental illness. An emphasis will be placed on differences that exist between women as they relate to race, ethnicity, culture, religion, and class. The evaluation of these topics is relevant for all genders.

Transfer Credit: CSU; UC*

*UC credit limits may apply. PSYC 265 and SOC 202 combined: maximum credit, one course.

PSYC 271

ABNORMAL PSYCHOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

This course entails a detailed survey of the various types of abnormal behavior, including behavior resulting from anxiety disorders, mood disorders, substance abuse, sexual disorders, personality disorders, childhood and aging disorders and schizophrenia. The different models of abnormal behavior, its causes, treatment, and prevention, as well as ethics and the law are discussed.

Transfer Credit: CSU; UC

PSYC 273

MENTAL HEALTH

WORKER FIELD EXPERIENCE

3.0 UNITS

Class hours: 1 lecture/6 lab

Prerequisite: INST 151, INST 152, PSYC 101, PSYC 271 AND PSYC 272 with grades of Credit or "C" or higher.

The field experience includes the practice of working with a Rehabilitation Team under the direct supervision of a professional Psychosocial Rehabilitation specialist. Emphasis will be placed on helping relationships, including helping with personal/family issues, employment, living with mental illness, cultural/ethnic issues and any other special population issues. While interacting with clients, students will engage in the four components of rehabilitation: hope, empowerment, self-responsibility, and obtaining a meaningful role in life. The students will develop a professional attitude in all phases of psychosocial rehabilitation, including the legal and ethical aspects of rehabilitation. Weekly seminars are held to evaluate and review clinical applications.

Transfer Credit: CSU

PSYC 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should

expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

PSYC 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

RADIO - TELEVISION

(Fine Arts, Communication Division)

RTV 151

MOTION PICTURES, RADIO, AND TELEVISION

3.0 UNITS

Class hours: 3.0 Lecture

This is a broad survey of the history, theory, and production techniques of motion pictures, radio, and television with emphasis on the form, content, and social impact of each. Students will participate in at least one field trip to a motion picture, radio, or television studio. (This course is not open to students currently enrolled in or who have completed TH 151.)

Transfer Credit: CSU

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RTV 152

INTRODUCTION TO BROADCASTING

3.0 UNITS

Class hours: 3.0 Lecture

As an introduction to the basic phases of radio and television broadcasting, this course covers historical, legal, and practical aspects of broadcasting. Students will learn microphone and camera techniques, studio procedure, and station staffing as well. Field trips to radio and television stations may be included. (Formerly TH 152)

Transfer Credit: CSU

RTV 155

RADIO PRODUCTION

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

This course is a study and practice of production and departments involved in radio broadcasting. Students make actual broadcasts and recordings and are responsible for staffing and some programming of the campus radio station WPMD-956, 1700 AM, and WPMD on the internet. This course may be taken a maximum of 4 times. (Formerly TH 155)

Transfer Credit: CSU

RTV 170

BROADCAST NEWS/WEBCASTING

1.0 UNIT

Class hours: 0.5 Lecture/1.0 Laboratory

Prerequisite: Concurrent enrollment or completion JOUR 101 with a grade of Pass or "C" or higher.

Recommendation: Concurrent enrollment or completion of JOUR 103 or RTV 152 with a grade of Credit or "C" or higher.

This course focuses on broadcast newswriting and production techniques using the college radio station, WPMD, as a practical laboratory. Students will develop and research story ideas for regular news broadcasts on WPMD. Newsgathering and reporting for broadcast will be emphasized, along with ethics and legal aspects of communication. This course is not open to students currently enrolled in or who have completed JOUR 170. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

RTV 171

OCCUPATIONAL WORK EXPERIENCE IN BROADCASTING

1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units in a declared Broadcast Media Major. One unit of Occupational Work Experience in Theatre require 60 non-paid hours or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experience on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employer/trainers. In the first semester, students will meet with the instructor for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

RTV 255

EDITING AUDIO

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: RTV 155 or equivalent with a grade of Pass or "C" or higher.

This course is a study and practice of digital audio production in radio broadcasting centered around the computer. This focus is on digital manipulation of sounds using current professional grade software. Students will make actual broadcasts, podcasts, and .wav files on a digital medium that will result in an audio portfolio. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

RTV 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

RTV 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department.

With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

READING

(Liberal Arts Division)

READ 6 (Not Degree Applicable)

TUTOR TRAINING

0.5 UNIT

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a grade of Pass or "C" or higher.

This course is designed to acquaint the tutor with techniques in assisting students to gain better scholastic achievement. Those students who fail to complete nine hours of course work will not receive credit for this course. The course may be repeated for a maximum of one unit. This course is offered on a credit/no credit basis only.

READ 41 (Not Degree Applicable)

INDIVIDUALIZED READING

0.5 UNIT

Class hours: 2.0 Laboratory

This course is for students who wish to improve their reading skills outside of a structured class. Students will be tested as they enter the class, or by the reading component of the Cerritos College assessment test. Based on the scores from the test, work in any of the following areas may be assigned: phonics, vocabulary study, vocabulary in context, literal comprehension, inferential comprehension, critical reading or study-related reading. This course may be taken a maximum of 4 times. (Formerly AED 90.41)

READ 42 (Not Degree Applicable)

READ ACCESS

COLLEGE SUCCESS

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Recommendation: Completion of the Reading Placement Process.

This course is designed to help culturally

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diverse students make the transition from non-credit courses into college-credit programs. It is open to non-readers and limited readers, both native and immigrants. Visual, auditory, tactile, and kinesthetic instructions are included. Phonics, vocabulary, reading, and writing skills are stressed.

READ 43 (Not Degree Applicable)

INTRODUCTION TO COLLEGE READING

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: Satisfactory completion of the Reading Placement Process or READ 42 or equivalent with a grade of Pass or "C" or higher.

This course is designed for students who wish to improve basic reading skills for success in college-level courses. Coursework includes work on fundamental word analysis skills and fundamental comprehension skills. This course will be offered on a credit/no credit basis only. Since this course is approved for distance education those students may complete their lab work online.

READ 44 (Not Degree Applicable)

EFFECTIVE STUDY METHODS FOR COLLEGE

3.0 UNITS

Class hours: 3.0 Lecture

The student will become aware of and experience proven learning techniques ensuring improved comprehension and retention of information from college lectures and textbooks. Skills to be emphasized include: study time management, methods for reading textbooks efficiently, note-taking techniques, understanding textbook assignments, preparation for examinations, test-taking techniques, effective listening techniques, guidelines for vocabulary development, memory techniques, the preparation of research papers and library skills. Study skills surveys will be used to help students identify and improve upon their personal study skills habits and their individual mode of learning.

READ 46 (Not Degree Applicable)

VOCATIONAL/ TECHNICAL READING

3.0 UNITS

Class hours: 3.0 Lecture

This course develops the ability to acquire and improve reading skills necessary for success in the students' occupational lives. All of the instructional activities in this course will strengthen specific technology course curriculum: reading comprehension, vocabulary development, word attack, and study-reading strategies that will prepare students for reading in the workplace.

READ 54

ADVANCED COLLEGE READING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the Reading Placement Process or READ 43 or equivalent with a grade of Pass or "C" or higher.

This course is designed to improve literal, interpretive, critical comprehension, and vocabulary skills. Emphasis will be on structured vocabulary development and college-level reading skills.

READ 98

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

READ 100

SPEED READING METHODS AND APPLICATIONS

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to increase reading speed and comprehension in college-level material. Emphasis is placed on developing an improved reading method through learning rapid reading techniques, gaining flexibility in adjusting reading speed to suit purpose for reading and difficulty of the material, overcoming habits of regression and subvocalization, recognizing and using basic writing structures and literary elements as aids to comprehension in depth, and mastering speed study techniques and speed research techniques. All methods and techniques are applied to various types of college-level reading materials.

Transfer Credit: CSU

READ 100A

SPEED READING: METHODS

1.5 UNITS

Class hours: 1.5 Lecture

This course is identical to the first half of Reading 100. It is designed to increase reading speed by developing an improved reading method through learning rapid reading techniques, gaining flexibility in adjusting reading speed to suit purpose for reading and difficulty of the material, overcoming habits of

regression and subvocalization, recognizing basic writing structures and literary elements as aids to comprehension.

Transfer Credit: CSU

READ 100B

SPEED READING/ APPLICATIONS

1.5 UNITS

Class hours: 1.5 Lecture

Prerequisite: READ 100A or equivalent with a grade of Pass or "C" or higher.

This course is identical to the second half of Reading 100. It is designed to improve comprehension while reading rapidly by utilizing knowledge of basic writing structures and literary elements as aids to comprehension, mastering speed study techniques, and speed research techniques, and applying all methods and techniques learned in Reading 100A to various types of college level reading materials.

Transfer Credit: CSU

READ 200

ANALYSIS AND CRITICAL READING

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the Reading Placement Process or READ 54 or equivalent with a grade of Pass or "C" or higher and ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course focuses on the development and application of reading skills in the interpretation, analysis, criticism, and advocacy of ideas encountered in academic readings across the curriculum and Internet media sources.

Transfer Credit: CSU

REAL ESTATE

(Business Division)

RE 1T

REAL ESTATE COMPUTER TUTORIAL

0.5 UNIT

Class hours: 1.0 Laboratory

This course develops proficiency in computer applications in Real Estate. Students must attend one hour minimum per week and are limited to a maximum of three hours per week. (Formerly BUSR 1T)

RE 50

INTRODUCTION TO REAL ESTATE SOFTWARE

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or equivalent with a grade of Pass or "C" or higher

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This course covers hands-on training using WinForms, creating a market analysis for sellers, searching the Multiple Listing Service for properties, and then downloading or e-mailing these offerings for presentation to buyers, renting versus buying analysis presentation to buyers, renting versus buying analysis, and using realtor.com to locate owner of properties. In addition, students will learn how to calculate a seller's net sheet when selling a home, as well as a buyer's net sheet when purchasing a home. (Formerly BUSR 50)

RE 51 REAL ESTATE PRE-LICENSE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

This course covers materials used by the State of California Department of Real Estate in preparing test questions for Real Estate License examinations. The major topics studied are real estate law, real estate practice, real estate principles, real estate finance, real estate appraisal, real estate taxations, and real estate economics. (Formerly BUSR 51)

RE 52 MORTGAGE LOAN BROKERING AND LENDING 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or equivalent with a grade of Pass or "C" or higher

This course introduces the student to the principles and operations of the loan brokering field. The emphasis is on the lending rules for residential property, disclosures, maximum fees and charges, agency relationships, advertising laws, HUD/RESPA calculations and the loan process. This course partially satisfies the requirements of the Real Estate Salesperson and California Real Estate Broker's licenses. (Formerly BUSR 52)

RE 53 ADVANCED REAL ESTATE APPRAISAL 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: RE 131 or equivalent with a grade of Pass or "C" or higher.

This is an advanced course in real estate appraisal devoted to current techniques of estimating value. An income property will be chosen, analyzed, and appraised. The creative development of a Narrative Appraisal Report will be taught, and its completion will be the goal of each student. All examples are or have been real life situations. Great emphasis is placed on preparing the student to be able to walk into an appraisal office and begin appraising. Capitalization, reciprocals, land and building residual techniques are covered. (Formerly BUSR 53)

RE 54 COMPUTERS IN REAL PROPERTY APPRAISAL PRACTICE 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: RE 53 or RE 131 or equivalent with a grade of Pass or "C" or higher

This course covers hands-on computer training for students involved in the appraisal certificate courses or for real estate licensees interested in the appraisal end of the real estate business. This course emphasizes appraisal techniques using form fill programs for Universal Residential Appraisal Report (URAR), Small Income Property Analysis and Report of Value, Large Income Property Analysis and Report of Value, Land Valuation Analysis and Report, Discounted Cash Flow Values (DCF's), and the manipulation and practical application and use of the six functions of \$1. (Formerly BUSR 54)

RE 55 REAL ESTATE OFFICE ADMINISTRATION 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or equivalent with a grade of Pass or "C" or higher.

This course is designed to acquaint the real estate licensee with skills necessary to manage a profitable and stable business. These skills include techniques in research; office organization; managerial decision making; establishing controls systems and policies; recruiting, selecting, and training of personnel; and product marketing and other skills related to financing, expansion, and growth. (This course may be taken as a broker's license requirement.) (Formerly BUSR 55)

RE 98 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

Prerequisite: A previous college course in the discipline.

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

RE 99 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

RE 101 REAL ESTATE PRINCIPLES 3.0 UNITS

Class hours: 3.0 Lecture

This is a beginning course in real estate, which introduces the student to real estate fundamentals and principles. Major topics covered are the following: history of real estate in California, contracts, agency, introduction to financing, deeds, liens and encumbrances, escrow and title insurance, land descriptions, and real estate math. This course can be taken in either a traditional or an online learning environment. (Formerly BUSR 101)

Transfer Credit: CSU

RE 120 REAL ESTATE FINANCE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or equivalent with a grade of Pass or "C" or higher

This course is designed to be of assistance to real estate brokers, salesmen, college students majoring in real estate, and others who may have a special interest in real estate financing. Actual case illustrations demonstrating lending policies, problems, and risks involved in financing transactions in residential apartment, commercial, and special purpose properties will be used. (Statutorily required by the Department of Real Estate for a Broker's License.) (Formerly BUSR 120)

Transfer Credit: CSU

RE 125 LEGAL ASPECTS OF REAL ESTATE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or LAW 111 or equivalent with a grade of Pass or "C" or higher

This course is designed to be of material assistance to real estate licensees, college students majoring in real estate, and others interested in real estate. This is a practical,

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applied study of California real estate law intended to be of help in avoiding legal difficulties which can arise with real estate transactions. (Statutorily required by the Department of Real Estate for a Broker's License.) (Formerly BUSR 125)

Transfer Credit: CSU

RE 130 REAL ESTATE PRACTICE 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to acquaint the students with everyday real estate practice and to familiarize them with forms used in the real estate industry, as well as keep them abreast of the changing conditions in the real estate market, notably in lending, land utilization, and zoning. This course will inform the students of current selling practices and techniques. (This course is statutorily required by the Department of Real Estate for a Salesperson's license as well as required for a Broker's License.) (Formerly BUSR 130)

Transfer Credit: CSU

RE 131 INTRODUCTION TO REAL ESTATE APPRAISAL 4.0 UNITS

Class hours: 4.0 Lecture

Recommendation: RE 101

This course is an introduction to the field of real property appraisal. It includes the hands-on evaluation of a single family residence and a multi-family income units. This course includes preparation of and finalization of the Uniform Residential Appraisal Report. Students will learn to use the Uniform Residential Appraisal Report (URAR) with addendums for the single family residence report and will use the Small Residential Income Report for multiple units. This course will qualify for 72 hours of basic Appraisal Education toward the 90 hours necessary for Trainee License, the 120 hours required for Licensed or Certified Residential classification, and the 180 hours required for the Certified General classification. (Formerly BUSR 131)

Transfer Credit: CSU

RE 140 REAL ESTATE PROPERTY MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture

The course illustrates how skilled management practice can assure the production of maximum financial yield to investment real estate. The students gain an overview of the many different types of properties in which they might become involved. The course considers the specific duties of management, including the establishing rental schedule, merchandising available space, collecting rent, creating and

supervising maintenance schedules and repairs, supervising all purchasing, developing a tenant relationship policy, and maintaining proper accounting records. This course is an elective toward a Real Estate Broker's License. (Formerly BUSR 140)

Transfer Credit: CSU

RE 151 FUNDAMENTALS OF ESCROW 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or equivalent with a grade of Pass or "C" or higher.

This is a basic course covering the principles and fundamentals of escrow procedure, with emphasis on the duties and responsibilities of escrow personnel. Students will understand why escrow is a means of facilitating the transfer of property and for protection of the interests of the principals. This is a background course for real estate students and a prerequisite for more advanced courses in escrow. This course may be taken as one of the three choices of college-level classes required for a Broker's License. (Formerly BUSR 151)

Transfer Credit: CSU

RE 157 REAL ESTATE INVESTMENTS 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to acquaint the students with real estate investments. Content will include commonly used forms, solving on-the-job problems, cash flow analysis including calculation of cash-on-cash return, net present value and internal rate of return, analysis of the client's needs, and modern practices and techniques used in industry today. (Formerly BUSR 157)

Transfer Credit: CSU

RE 160 REAL ESTATE ECONOMICS 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: RE 101 or equivalent with a grade of Pass or "C" or higher.

This course covers principles and problems in urban development such as basic methods of statistical analysis and interpretation, controlling land use, patterns of land use for commercial and industrial facilities, economic aspects of real estate investment theory, economic utilization, land resources, public housing, urban renewal and rehabilitation, and impact of environmental controls. (This course is required for California Real Estate Broker's License.) (Formerly BUSR 160)

Transfer Credit: CSU

RE 172 REAL ESTATE OCCUPATIONAL WORK EXPERIENCE/CAREER INTERNSHIP 2.0 UNITS

Class hours: 1 hr. /wk coordination class

Prerequisite: RE 101 or equivalent with a grade of Pass or "C" or higher.

Corequisite: Enrollment in 7 or more units, including Real Estate Occupational Work Experience/Career Internship, in a declared real estate major. Two units of Business Real Estate Occupational Work Experience/Career Internship require 120 non-paid hours of work or 150 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to exacting experiences in the workplace. The aim of the course is to assist students in becoming more productive workers. In the process of doing so, it creates greater communication with increased understanding between the broker/sponsors, student/trainees, and the college. First-semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site. Second, third-, and fourth-semester students must meet weekly with the instructor until their participatory assignments and semester work projects have been approved. This course may be taken a maximum of 3 times. (Formerly BUSR 172)

Transfer Credit: CSU

RE 173 REAL ESTATE OCCUPATIONAL WORK EXPERIENCE/CAREER INTERNSHIP 3.0 UNITS

Class hours: 1 lecture

Prerequisite: RE 101 or equivalent with a grade of Pass or "C" or higher.

Corequisite: Enrollment in 7 or more units, including Real Estate Occupational Work Experience, in a declared real estate major. Three units of Real Estate Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Real Estate Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to exacting experiences in the workplace. The aim of the course is to assist students in becoming more productive workers. In the process of doing so, it creates greater communication with increased understanding

between the broker/sponsors, student/trainees and the college.

First-semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BUSR 173)

Transfer Credit: CSU

RE 174

REAL ESTATE OCCUPATIONAL WORK EXPERIENCE/CAREER INTERNSHIP

4.0 UNITS

Class hours: 1 lecture

Prerequisite: RE 101 or equivalent with a grade of Credit or "C" or higher.

Corequisite: Enrollment in 7 or more units, including Real Estate Occupational Work Experience, in a declared real estate major. Three units of Real Estate Occupational Work Experience require 180 non-paid hours of work or 225 paid hours of work per semester. Four units of Real Estate Occupational Work Experience require 240 non-paid hours of work or 300 paid hours of work per semester. Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to exacting experiences in the workplace. The aim of the course is to assist students in becoming more productive workers. In the process of doing so, it creates greater communication with increased understanding between the broker/sponsors, student/trainees and the college.

First-semester students meet with their instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to their major and job skills must be completed on the job/training site.

Second, third, and fourth semester students must meet weekly with the instructor until their participatory assignments and semester work projects have been approved. These courses may be taken for a maximum of 4 times. (Formerly BUSR 174A)

Transfer Credit: CSU

RE 174A

REAL ESTATE OCCUPATIONAL WORK EXPERIENCE/CAREER INTERNSHIP

4.0 UNITS

Class hours: 1 hour/week coordination class

Prerequisite: Completion of 12 units in Business Administration, Business Real Estate or Paralegal or equivalent.

The Business Real Estate Occupational Work Experience Alternate Plan is supervised employment of students designed to offer students opportunities to attend college full-time one semester and work full-time the following semester. Job experience must relate directly to the student's educational goals. Up to eight (8) units may be earned in one semester. Occupational work internship is supervised employment of students designed to extend their classroom-based occupational learning at an on-the-job learning station in fields directly related to their educational or occupational goals. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

RE 195

COMMON INTEREST DEVELOPMENTS

3.0 UNITS

Class hours: 3.0 Lecture

This course covers the basics of managing, purchasing, and selling of common interest developments (CID's) that are governed by homeowner associations (HOA), including condominiums. All applicable laws will be included in the course. (Formerly BUSR 195)

Transfer Credit: CSU

SIGN LANGUAGE

(Liberal Arts Division)

SL 101

BEGINNING AMERICAN SIGN LANGUAGE

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

This beginning course emphasizes expressive signs, receptive signs and finger spelling. An appreciation of cultural diversity is developed through the study of the differences and similarities between deaf and hearing cultures.

Transfer Credit: CSU; UC

SL 102

INTERMEDIATE AMERICAN SIGN LANGUAGE

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: SL 101 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the study of the basic principles of American Sign Language with an emphasis on conceptual accuracy. A deeper appreciation of deaf culture is developed by studying the deaf community, encouraging participation in deaf community events, and understanding various communication technology used by deaf people.

Transfer Credit: CSU

SL 201

ADVANCED AMERICAN SIGN LANGUAGE

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: SL 102 or equivalent with grade of Pass or "C" or higher.

This course provides a review and in-depth study of the grammatical concepts of American Sign Language. It will further develop the appreciation of cultural diversity particularly in the deaf community. The class is conducted primarily in American Sign Language.

Transfer Credit: CSU; UC

SOCIOLOGY

(Humanities, Social Science Division)

SOC 101

(CAN SOC 2)

INTRODUCTORY

SOCIOLOGY PRINCIPLES

3.0 UNITS

Class hours: 3.0 Lecture

Sociology 1 represents an introductory survey of the fundamental theories, philosophies and problems associated with the study of sociology in a pluralistic society. A multicultural approach is used throughout in the analysis of human relationships through a study of major concepts. Institutions and their functions, personality development, social interaction, social change, collective behavior, the environment, war and peace are major themes for this course.

Transfer Credit: CSU; UC

SOC 110

MARRIAGE AND THE FAMILY

3.0 UNITS

Class hours: 3.0 Lecture

Sociology 110 represents an introductory survey of the sociological, psychological and biological factors involved in love, marital and family relationships. Using a multicultural approach, consideration is given to the complex issues of dating, courting, mate selection, alternatives to marriage, conflict, communication, sex roles, child-bearing and child-rearing.

Transfer Credit: CSU; UC

Announcement of Courses

SOC 120

INTRODUCTION TO HUMAN SEXUALITY

3.0 UNITS

Class hours: 3.0 Lecture

Sociology 120 represents an introductory survey of the behavioral, biological, historical, religious, and socio-cultural aspects of human sexuality in a pluralistic society. A multicultural approach is used throughout in the study of the anatomy and physiology of sexual function, treatment of dysfunction, psychosexual development and the relationship between sexuality, changing social/cultural standards and contemporary values. Sex across the life span, pregnancy, birth control, sexually transmitted diseases, the AIDS crisis, homosexuality, sexual assault, incest, and child molestation are among the topics covered.

Transfer Credit: CSU; UC

SOC 201

SOCIAL PROBLEMS

(CAN SOC 4)

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: SOC 101 or equivalent with a grade of Pass or "C" or higher.

Sociology 201 represents a study of undesirable socially constructed social problems. Special emphasis is on the range of phenomena considered social problems which may include: war, overpopulation, poverty, street crime, white-collar crime, racial/ethnic conflict, mental illness, the environment, health care, international terrorism, government regulation, drug abuse, ageism, unemployment, hopelessness, the decline of the family, child abuse, urban decay, pornography, overcrowded prisons, campus unrest, sex discrimination, abortion, alienated youth, and AIDS.

Transfer Credit: CSU; UC

SOC 202

GENDER AND SOCIETY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: SOC 101 or WS 101 with a grade of Pass or "C" or higher.

This course addresses the concept of gender in our society as an organizing principle in men's and women's lives from a sociological perspective. The class will address the issue of the social construction of gender and how it relates to race, ethnicity, class, and sexuality and how social institutions are gendered. Topics to be covered will include cultural ideas of gender as well as gender and the economy, politics, the media, families, and education. It also addresses how gender impacts interactions between individuals and groups.

*Transfer Credit: CSU; UC**

*UC credit limits may apply. PSYC 265 and SOC 202 combined: maximum credit, one course.

SOC 210

AMERICAN MINORITY RELATIONS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: SOC 101 or equivalent with a grade of Pass or "C" or higher.

This course is a survey of theories, problems, nature, and the dynamics of racism. Power and inequality, prejudice and discrimination and patterns of racial/ethnic relations are examined conceptually and historically, using data from scientific, philosophical, sociopolitical, legal and cultural sources. Models and concepts for positive change will be explored.

Transfer Credit: CSU; UC

SOC 215

SOCIOLOGY OF CULTURAL DIVERSITY: CHALLENGE AND CHANGE

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to create an awareness of, an appreciation of, and a tolerance for diverse cultures. Topics covered will include the nature of culture, world views, customs and mores, views on religion, marriage and the family, children and the elderly, ethnocentrism, stereotyping, the nature of prejudice and discrimination, and social change.

Transfer Credit: CSU; UC

SOC 220

INTRODUCTION TO HUMAN SERVICES

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: SOC 101 or PSYC 101 or equivalent with a grade of Pass or "C" or higher is strongly recommended.

Sociology 220 represents an introduction to the purposes, historical context and organizational structure of human services. Emphasis is threefold: the development of human services and related careers in response to situations of individuals or groups who need assistance to live better lives (purpose); the recent history of human services dating from the early 1960s, which is marked by an increased awareness that many people need different kinds of assistance; and the purposes of the organizations that deliver services to clients.

Transfer Credit: CSU

SOC 225

CONTEMPORARY SOCIAL ISSUES

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: SOC 101 or equivalent with a grade of Pass or "C" or higher is strongly recommended.

This is a specialized course designed to acquaint the student with major social issues facing the

United States and to a limited extent, the world. This course focuses on origins, sustaining causes and possible solution to societal issues. The specific issue will be decided by the course instructor and announced in the Schedule of Classes. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU, UC credit determined after admission

SOC 230

JUVENILE DELINQUENCY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: SOC 101 or equivalent with a grade of Pass or "C" or higher is strongly recommended.

This course is a study of adolescents and their lives within contemporary society with emphasis on what is defined and accepted as justice for adolescents in general and delinquents in particular.

Transfer Credit: CSU

SOC 250

SOCIOLOGY OF AGING

3.0 UNITS

Class hours: 3.0 Lecture

This course represents an introductory survey of the fundamental theories and problems of aging. Using a multicultural approach, the course investigates the sociological, psychological, and physical aspects of the human aging process from middle age to old age. Students are required to investigate why we study aging, to understand the demography of aging as well as the historical and cross-cultural aspects of the aging process in a society. A knowledge of current policies and their effects on the aged population is also desirable. Using and understanding various methodologies is also part of the course.

Transfer Credit: CSU; UC

SOC 298

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

SOC 299

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

SPANISH

(Liberal Arts Division)

SPAN 101 (CAN SPAN 2) (CAN SPAN SEQ A) ELEMENTARY SPANISH **5.0 UNITS**

Class hours: 5.0 Lecture/1.0 Laboratory

This beginning Spanish course emphasizes listening, speaking, reading, and writing and helps to develop an appreciation of cultural diversity through the study of differences and similarities between cultures.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. SPAN 101 and SPAN 111 combined: maximum credit, one course.*

SPAN 102 (CAN SPAN 4) (CAN SPAN SEQ A) ELEMENTARY SPANISH **5.0 UNITS**

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: SPAN 101 or SPAN 103B or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the study of the basic principles of Spanish with an emphasis on oral and written communication. It helps to continue to develop an appreciation of cultural diversity through the study of differences and similarities between cultures.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. SPAN 102 and SPAN 112 combined: maximum credit, one course.*

SPAN 103A

ELEMENTARY SPANISH FOR

TEACHER PREPARATION I

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

This beginning course in Spanish language for teacher preparation emphasizes listening, speaking, reading, and writing, and helps to develop an appreciation of cultural diversity through the study of differences and similarities between cultures.

Transfer Credit: CSU

SPAN 103B

ELEMENTARY SPANISH FOR

TEACHER PREPARATION

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: SPAN 103A or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the study of basic Spanish language principles for teacher preparation with an emphasis on oral and written communication. It further develops an appreciation of cultural diversity through the study of differences and similarities between cultures.

Transfer Credit: CSU

SPAN 111

ELEMENTARY SPANISH FOR

SPANISH SPEAKERS

5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

This beginning course corresponding to SPAN 101 is designed for students already able to understand and speak the language as used in everyday situations. Emphasis is on listening, speaking, reading, writing and special problems with structures and vocabulary.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. SPAN 101 and SPAN 111 combined: maximum credit, one course.*

SPAN 112

ELEMENTARY SPANISH FOR

SPANISH SPEAKERS

5.0 UNITS

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: SPAN 101 or SPAN 111 or SPAN 103B or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of SPAN 111 or SPAN 101 designed for the native speaker. It corresponds to SPAN 102 with an emphasis on oral and written communication. This course is designed for students that already speak, understand and have studied Spanish. It helps develop the appreciation of cultural diversity through the study of differences and similarities between the diverse Latin-

American and Spanish cultures.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. SPAN 102 and SPAN 112 combined: maximum credit, one course.*

SPAN 201 (CAN SPAN 8) (CAN SPAN SEQ B) INTERMEDIATE SPANISH **5.0 UNITS**

Class hours: 5.0 Lecture/1.0 Laboratory

Prerequisite: SPAN 102 or SPAN 112 or equivalent with a grade of Pass or "C" or higher.

This course provides a review and in-depth study of important grammatical concepts. Reading and interpretation of literary works by Hispanic writers and guided and original compositions are included. This course will further develop the appreciation of cultural diversity. The class is conducted primarily in Spanish.

Transfer Credit: CSU; UC

SPAN 202 (CAN SPAN 10) (CAN SPAN SEQ B) INTERMEDIATE SPANISH **4.0 UNITS**

Class hours: 4.0 Lecture

Prerequisite: SPAN 201 or equivalent with a grade of Pass or "C" or higher.

This course provides a review and in-depth study of grammatical concepts. Reading and interpretation of literary works by Latin American and Spanish writers, and guided and original compositions are included. This course provides further practice in the discussion and presentation of current cultural topics through literature. This class, conducted primarily in Spanish, will further develop the appreciation of cultural diversity and is recommended for all Spanish majors.

Transfer Credit: CSU; UC

SPAN 205

ADVANCED SPANISH

COMPOSITION

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: SPAN 201 or equivalent with a grade of Pass or "C" or higher.

This course is a continuation of the development of Spanish composition skills and applied grammar. Compositions are assigned to develop specific writing skills and improve critical judgment. This course will further develop the appreciation of cultural diversity. The class is conducted primarily in Spanish.

Transfer Credit: CSU; UC

SPAN 206

HISPANIC LITERATURE

IN THE MEDIA

3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: SPAN 201 or equivalent with a grade of Pass or "C" or higher.

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This course will examine the translation of various literary genres from different periods of Hispanic literature, both Peninsular and Latin American, into various audio/visual media. An exploration of how literature and audio/visual media create, shape, reinforce, and/or change culture and impact its images, stereotypes, and archetypes will be examined. Theoretical approaches to the adaptation of literature into other media will be studied.

Transfer Credit: CSU; UC

SPAN 210 HIGHLIGHTS OF HISPANIC CULTURE 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: SPAN 102 or SPAN 112 or equivalent with a grade of Pass or "C" or higher.

This course traces the principal currents of Hispanic culture through Europe and the New World. Using a thematic approach, it traces the historic, political and economic development of the Spanish speaking people, and presents the highlights of Hispanic achievements from the standpoint of civilization and culture. This course, conducted primarily in Spanish, is recommended for Spanish majors.

Transfer Credit: CSU; UC

SPAN 213 LIVING SPANISH GRAMMAR AND WRITTEN COMMUNICATION 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: SPAN 102 or SPAN 112 or equivalent with a grade of Pass or "C" or higher.

Study of fundamental grammatical principles and sentence structures with drills and translations. (Special emphasis on uses of the Imperfect and the Preterite and the phonetic rules of the accent.) Writing of short paragraphs blending creativity with grammatical correctness. An excellent review course for all students. Recommended for Spanish majors.

Transfer Credit: CSU; UC

SPAN 214 LIVING SPANISH GRAMMAR AND WRITTEN COMMUNICATION 2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: SPAN 102 or SPAN 112 or equivalent with a grade of Pass or "C" or higher.

Study of fundamental grammatical principles and sentence structures with drills and translations. (Special emphasis on uses of the Subjunctive and the phonetic rules of

the accent.) Writing of short compositions blending creativity with grammatical correctness. An excellent review course for all students. Recommended for Spanish majors.

Transfer Credit: CSU; UC

SPAN 223 SPANISH FOR HEALTH AND MEDICAL CAREERS 3.0 UNITS

Class hours: 3.0 Lecture

This Spanish course for health and medical personnel is designed for students who plan to use Spanish as a communication tool in their field of specialization. A major emphasis is on vocabulary and situational dialogues closely related to health and medical careers.

Transfer Credit: CSU

SPAN 245 INTRODUCTION TO CHICANO/MEXICAN AMERICAN CULTURE 3.0 UNITS

Class hours: 3.0 Lecture

This course is a study of the culture of the Chicano/Mexican American student. It analyzes the family, religious institutions, contributions, advancements, and problems of the Chicano/Chicana in the United States and aids students in achieving self-identification and understanding their relationship to their own community. This course, conducted in English, develops insight into the special nature of Chicano/Chicana culture for those outside that culture. It is open to all Spanish speaking and non-Spanish speaking students.

Transfer Credit: CSU; UC

SPAN 281 BEGINNING CONVERSATIONAL SPANISH 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: SPAN 102 or equivalent with a grade of Pass or "C" or higher.

This course gives the student practice in understanding and speaking Spanish as used in the home, school, business, travel and everyday life. Emphasis is placed on vocabulary, idioms, and language patterns fundamental to an active and practical use of Spanish. This course, recommended for all Spanish majors, develops the appreciation of cultural diversity.

Transfer Credit: CSU; UC

SPAN 282 INTERMEDIATE CONVERSATIONAL SPANISH 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: SPAN 281 or equivalent with a grade of Pass or "C" or higher.

This course provides intensive practice in

the discussion of current topics including multiculturalism. Emphasis is on the acquisition of special idioms and vocabulary suitable to conversation about the family, the world of work, business, sports and pastimes, popular culture, travel and ecology. This course, conducted primarily in Spanish, is recommended for all Spanish majors.

Transfer Credit: CSU; UC

SPAN 283 ADVANCED CONVERSATIONAL SPANISH 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: SPAN 282 or equivalent with a grade of Pass or "C" or higher.

This course consists of in-depth oral discussion of cultural topics, including modern family life, the job market, advertising in the business world, pastimes and amusements, economy versus ecology, the world of travel and multiculturalism. Emphasis is on the acquisition of appropriate vocabulary and language patterns, and the creative development of arguments. This course, conducted in Spanish, is recommended for all Spanish majors.

Transfer Credit: CSU; UC

SPAN 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

SPAN 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should

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expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation

Transfer Credit: CSU

SPEECH

(Liberal Arts Division)

SPCH 30 (Not Degree Applicable) COMMUNICATION DISORDERS 1.0 UNIT

Class hours: 3.0 Laboratory
This course is designed for students with a communication difficulty. Speech-Language-Hearing problems such as articulation, stuttering, voice disorders, regional or foreign dialects, language impairments due to a hearing loss are dealt with by individual or small group therapy. This course may be taken for a maximum of 4 times. The course is to be offered on a credit/no credit basis.

SPCH 31 (Not Degree Applicable) COMMUNICATION DISORDERS 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: 4 units of SPCH 30 or equivalent with a grade of Pass or "C" or higher.
This course is a continuation of individual and/or small group therapy for students with a communication difficulty, such as articulation, stuttering, voice disorders, regional or foreign dialects, language usage, and speech and language impairments due to hearing loss. It is a continuation of SPCH 30 for students who require further instruction. This course may be taken for a maximum of 4 times. This course is offered on a Credit/No Credit basis.

SPCH 45 (Not Degree Applicable) SPEECH-COMMUNICATION FOR CAREERS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
This course is a practicum in speech-communication within a career or occupational role. Theory will serve as a basis for the practical application of communication principles. Effective interaction with superiors, co-workers and the public is stressed.

SPCH 60 INTRODUCTION TO COMMUNICATION 3.0 UNITS

Class hours: 3.0 Lecture
This course is designed for students who need an introductory course in oral communication. It will aid them in conversation, small group interaction, identification of speaking purposes, supporting ideas, and listening skills. Videotape is used as an evaluative tool.

SPCH 100 FUNDAMENTALS OF ORAL COMMUNICATION 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent or SPCH 60 or equivalent with a grade of Pass or "C" or higher.

This survey course is an overview of the diversity of human communication. The student develops an understanding of the communication process, the basic elements of improving interpersonal communication, and how to reduce communication apprehension. Also included are leadership and participation in small groups, intercultural communication interviewing, and speech preparation. This course includes oral presentations, and videotaping is used as an instructional tool.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. SPCH 100 and SPCH 132 combined: maximum credit, one course.*

SPCH 110 INTERCULTURAL COMMUNICATION 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course presents theories and principles of communication with an emphasis on application of concepts relevant to intercultural communication. It has a culture general approach focusing on variables which influence the communication process. Assignments and activities involve students in the analysis of different communication patterns across cultures and the exploration and practice of methods, skills and techniques for improving intercultural communication.

Transfer Credit: CSU; UC

SPCH 120 (CAN SPCH 8) FUNDAMENTALS OF INTERPERSONAL COMMUNICATION 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

The interpersonal communication course is an overview of theory and research on human communication. The course is designed with the opportunity to improve students communication skills in a variety of communication contexts. This course includes skill practices, oral presentations, and videotaping as instructional tools.

Transfer Credit: CSU; UC

SPCH 130 (CAN SPCH 4) FUNDAMENTALS OF SPEAKING 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent or SPCH 60 or equivalent with a grade of Pass or "C" or higher.

This course focuses on the student's communication of ideas and concepts in various audience settings with emphasis on message organization, supporting amplifying materials, and analysis of audience diversity. Videotape is used as an evaluative tool.

Transfer Credit: CSU; UC

SPCH 132 (CAN SPCH 10) FUNDAMENTALS OF SMALL GROUP COMMUNICATION 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

As an introduction to the fundamentals of group discussion, this course focuses on the individual's communication in a small group setting; leadership in groups; group communication norms and processes with emphasis on problem solving and conflict reduction techniques. Videotape is used as an evaluative tool.

*Transfer Credit: CSU; UC**

**UC credit limits may apply. SPCH 100 and SPCH 132 combined: maximum credit, one course.*

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SPCH 140

ORAL INTERPRETATION OF LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent or SPCH 60 or equivalent with a grade of Pass or "C" or higher.

This course focuses on the analysis and interpretation of both prose and verse literature, including study of voice production, structure and content of literature, and techniques of effective oral communication of meaning from the printed page.

Transfer Credit: CSU; UC

SPCH 145

STORYTELLING

3.0 UNITS

Class hours: 3.0 Lecture

This course is an introduction to the history of storytelling and the techniques of listening, preparation, and the presentation of stories to various age groups and in various settings. Students acquaint themselves with various literary genres--folk tales, sagas, epics, legends, myths, poetry, and drama. Videotape is used as an evaluative tool.

Transfer Credit: CSU

SPCH 150

ORGANIZATIONAL COMMUNICATION

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: READ 54 or ENGL 52 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the English Placement Process.

This course presents theories and principles of communication with an emphasis on application of concepts relevant to organizational communication. This course focuses on variables that influence the communication process within the context of business and organizations. The combined application of speaking, listening, writing, and reading skills in business and professional settings will be emphasized. Assignments and activities involve students in the analysis of different communication patterns within organizations and the exploration and practice of methods, skills and techniques for improving communication within the professional setting.

Transfer Credit: CSU

SPCH 160

PARLIAMENTARY PROCEDURE

1.0 UNIT

Class hours: 1.0 Lecture

This course entails an examination of principles, practices and procedures in

formal deliberation. Emphasis is placed on parliamentary law.

Transfer Credit: CSU

SPCH 165

GROUP PROCEDURE

1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: SPCH 160 or equivalent with a grade of Pass or "C" or higher.

This course addresses leadership functions, techniques of cooperative problem solving, types of organizations, creating new organizations, and informal deliberation.

Transfer Credit: CSU

SPCH 200

CONTEMPORARY

COMMUNICATION TOPICS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 or READ 54 with a grade of Pass or "C" or higher or the equivalent.

This is a specialized course designed to present and acquaint students with communication theories and principles relevant to improving communication effectiveness. It focuses on those issues that reflect the evolutionary nature of communication in a variety of contemporary communication areas. The special topic will be decided by the course instructor and announced in the Schedule of Classes. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU, UC credit determined after admission.

SPCH 229

SPEECH AND LANGUAGE

DEVELOPMENT IN CHILDREN

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to provide the student an understanding of how speech and language develops in normal monolingual and bilingual children and what factors characterize language delay or a language disorder in children with special needs, including exposure to standardized tests and measures of language development. Practice will be provided in eliciting and analyzing speech/language samples from children representing native and non-native speakers and demonstrating normal and delayed speech/language skills. It is recommended for students majoring in speech pathology, the Speech-Language Pathology Assistant Program, elementary education, preschool or special education.

Transfer Credit: CSU

SPCH 235

(CAN SPCH 6)

FUNDAMENTALS OF ARGUMENTATION AND PERSUASION

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher.

This course focuses on argument and persuasion in the context of speech communication. This course examines the formation of arguments, the quality and types of evidence used to support claims, the use of language, and the analysis of fallacies. In addition, the course covers the role of the speaker/author, audience and message in argument. Emphasis is on the integration of critical thinking principles with techniques of effective argument, with focus on critiques, essays, debate, and speech writing and delivery.

Transfer Credit: CSU; UC

SPCH 236

FORENSICS FOR ONE

TOURNAMENT

1.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

This course provides students with opportunities to acquire basic oral communication, organizational, and research skills while gaining self-confidence and reducing speaking anxiety. Workshop includes competition at intercollegiate speech and debate tournaments. This course is recommended for all Speech majors. This course may be repeated for a maximum of 4 times.

Transfer Credit: CSU

SPCH 237

FORENSICS FOR TWO

TOURNAMENTS

1.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

Corequisite: SPCH 236.

This course provides students with numerous opportunities to improve oral communication, organizational, and research skills while developing self-confidence and reducing speaking anxiety. Workshop includes competition at intercollegiate speech and debate tournaments, and may also include on-campus and/or community speaking opportunities. Emphasis is on student competition and events development. This course is recommended for all Speech majors. This course may be repeated for a maximum of 4 times.

Transfer Credit: CSU

SPCH 238

FORENSICS FOR

THREE TOURNAMENTS

1.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

Corequisite: SPCH 236 and SPCH 237.

This course provides students with numerous opportunities to compete in multiple events

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at intercollegiate speech and debate tournaments, and also includes on-campus and/or community speaking opportunities. Intensive improvement of oral communication, organizational, and research skills is emphasized, along with commitment to participate in multiple facets of the program. This course, recommended for all Speech majors, develops scholarship, leadership, a strong team ethic, and an appreciation for the academic competitive experience. This course may be repeated for a maximum of 4 times.

Transfer Credit: CSU

SPCH 239 FORENSIC WORKSHOP 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Any person anxious to develop verbal confidence is encouraged to enroll in the Forensic Workshop. Workshop includes speaking opportunities before audiences at Intercollegiate speech tournaments and community organizations such as Kiwanis, Lions, Rotary, etc. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

SPCH 240 ORAL INTERPRETATION: READERS' THEATRE 3.0 UNITS

Class hours: 3.0 Lecture

This course offers further study of oral interpretation principles emphasizing dramatic literature through preparation and performance of a Readers' Theater production. Videotape is used as an evaluative tool.

Transfer Credit: CSU; UC

SPCH 271 VOICE AND ARTICULATION 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to help the student learn how voice and speech are produced by a study of anatomy and physiology of the speech and hearing mechanism and to learn how to use these mechanisms effectively and efficiently for oral communication. Students will learn phonetic transcription skills using the International Phonetic Alphabet (IPA) to assist their work on their own communication skills emphasizing precise articulation. Distinctive features of loudness, rate, pitch variation, vocal variety and controlled respiratory patterns will also be studied.

Transfer Credit: CSU

SPCH 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department.

With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

SPCH 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

SPEECH AND LANGUAGE PATHOLOGY

(Health Occupations Division)

SLP 100 INTRODUCTION TO SPEECH AND LANGUAGE PATHOLOGY 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course introduces foundational skills and principal theories for clinical management of individuals with communicative disorders. Linguistic and cultural variations will be explored. Legal and ethical scope of practice pertinent to roles in the speech-language pathology fields will be delineated.

Transfer Credit: CSU

SLP 110 NORMAL COMMUNICATION, DISORDERS, AND DIFFERENCES 4.0 UNITS

Class hours: 4.0 Lecture/1.0 Laboratory

Recommendation: A&P 120 or equivalent with a grade of Pass or "C" or higher.

This course focuses on normal verbal and non-verbal communication across the life span, including an understanding of how the different areas of language contribute to the total communication process. Students will learn what distinctive features constitute normal speech, language and hearing in a multicultural society. Observation techniques, assessment and intervention tools will be introduced.

Transfer Credit: CSU

SLP 120L PHONETICS LAB 1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: SLP 100 or equivalent with a grade of Pass or "C" or higher.

Corequisite: SPCH 271.

This is a skills lab designed to provide the student with practice in phonetic transcription skills. Students will transcribe normal and disordered speech using the International Phonetic Alphabet (IPA) for broad transcription. Linguistic variations and regional dialects will be addressed. This course may be taken for a maximum of 3 times.

Transfer Credit: CSU

SLP 125 CHILDHOOD DISORDERS AND TREATMENT 5.0 UNITS

Class hours: 4.0 Lecture/3.0 Laboratory

Prerequisite: SLP 100 and SLP 110 or equivalent with grades of Pass or "C" or higher.

Recommendation: A & P 120 or equivalent with a grade of Pass or "C" or higher.

This course focuses on screening procedures and treatment interventions used for speech, language and hearing disorders in children in educational and healthcare settings. The student will learn to use observational checklists, administer screening assessment tests and complete related therapeutic protocol forms.

Transfer Credit: CSU

SLP 230 ADAPTIVE COMMUNICATION TECHNOLOGY 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory

Prerequisite: Completion of SLP 100 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to the needs of non-oral children and adults, as well

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as the preparation, use and maintenance of selected adaptive communication equipment. Emphasis is placed on the collaborative use of assistive equipment for speech, language and hearing disorders.

Transfer Credit: CSU

SLP 235

ADULT DISORDERS AND TREATMENT

3.0 UNITS

Class hours: 4.0 Lecture/3.0 Laboratory

Prerequisite: SLP 100 or equivalent with a grade of Pass or "C" or higher.

This course is an introduction to the different clinical settings in which the speech-language pathology assistant may work. The course focuses on screening procedures and treatment interventions used for speech, language, and hearing disorders in adults.

Transfer Credit: CSU

SLP 240

CHILDHOOD FIELD EXPERIENCE

2.5 UNITS

Class hours: 0.5 Lecture/6.0 Laboratory

Prerequisite: SLP 120L, SLP 125, and SPCH 229 or equivalent with grades of Pass or "C" or higher.

The field experience will provide the student with the opportunity to perform speech-language pathology assistant responsibilities with children under appropriate supervision.

Transfer Credit: CSU

SLP 245

ADULT FIELD EXPERIENCE

2.5 UNITS

Class hours: 0.5 Lecture/6.0 Laboratory

Prerequisite: SLP 235 or equivalent with grade of Pass or "C" or higher.

The field experience will provide the student with the opportunity to perform speech-language pathology assistant responsibilities with adults under appropriate supervision.

Transfer Credit: CSU

TECHNICAL MATHEMATICS

(Technology Division)

TM 50

TECHNICAL MATHEMATICS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: MATH 40 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Math Placement Process.

This course is an introduction to the principles of algebra, geometry, and basic trigonometry as needed by students planning to work in any area of technology. Topics are covered which have particular emphasis on equations and

formulas found in the shop area and drafting labs. Calculations of area, volume and layout are stressed. Conversions between English and metric measurements are introduced. The students will learn to solve right angle trigonometry problems and will learn how to find solutions to oblique triangles using the law of sines and the law of cosines.

TM 98

DIRECTED STUDIES

1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

TM 99

DIRECTED STUDIES

2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

THEATRE ARTS

(Fine Arts, Communication Division)

TH 101

(CAN DRAM 18)

INTRODUCTION TO THE THEATRE

3.0 UNITS

Class hours: 3.0 Lecture

This broad survey of the entire theatre field focuses on modern theatre practice and theory. Some historical background is provided. Topics include stage lighting and design, acting and directing, properties and costume, theatre architecture, make-up, career opportunities, and playwrighting.

Transfer Credit: CSU; UC

TH 102

HISTORY OF THE CLASSICAL THEATRE

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to introduce the student to the history and literature of the theatre from ancient times to the Renaissance. The role of theatre in human affairs will be explored, and particular attention will be given to the way theatre shapes-and is shaped by-the cultural, intellectual, and political forces of its time.

Transfer Credit: CSU; UC

TH 103

HISTORY OF THE MODERN THEATRE

3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to introduce the student to the history and literature of the theatre from French Classicism to the 20th Century. The role of theatre in human affairs will be explored, and particular attention will be given to the way theatre shapes-and is shaped by—the cultural, intellectual, and political forces of its time.

Transfer Credit: CSU; UC

TH 104

HISTORY AND APPRECIATION OF MUSICAL THEATRE

3.0 UNITS

Class hours: 3.0 Lecture

This course introduces the student to the history and literature of the musical theatre from mid-19th century to present day. The course will explore the stylistic distinctions found in the musical as well as its social and cultural significance. Emphasis is placed on the contributions and influence of the individual writer, composer, or lyricist.

Transfer Credit: CSU; UC

TH 105

INTRODUCTION TO MUSICAL THEATRE TECHNIQUES

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course introduces the student to performance and audition techniques for musical theatre. Emphasis is placed on character development through scene study and song analysis, as well as vocal production and psychomotor awareness exercises. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

TH 108

IMPROVISATION FOR THE THEATRE

3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

In this course, students will learn how to act without a script. The focus will be on

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improvisational performance, but students will also learn how improvisation is used in actor training and as a tool for rehearsing traditional plays. Class members will participate in exercises designed to free their natural ability in all acting situations. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

TH 109 REMOUNTING A PRODUCTION 2.0 UNITS

Class hours: 1.0 Lecture/4.0 Laboratory
Prerequisite: TH 130 or TH 131 or TH 132 or audition or equivalent with a grade of Pass or "C" or higher.

Students in this course will remount a major theatrical production. This particular course is for those cast in a show previously produced. This course may be taken for maximum of 4 times.

Transfer Credit: CSU

TH 110 (CAN DRAM 8) FUNDAMENTALS OF ACTING 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
This course is an introduction to acting methods and exercises. It is appropriate for the beginner, but it also lays a strong foundation for students who would like to pursue a career in acting. Students will perform regularly on stage, and will learn to analyze scenes and monologues. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

TH 111 (CAN DRAM 22) INTERMEDIATE ACTING TO CHARACTERIZATION 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: TH 110 or equivalent with a grade of Pass or "C" or higher.

This is an advanced course in acting methods and practices, with particular focus upon creating exciting, believable characters. Students will learn to find elements from their own lives to use in characterization, and then to explore cultures and walks of life other than their own.

Transfer Credit: CSU; UC

TH 114 VOICE FOR ACTING 2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory
This course presents vocal techniques to free and develop the actor's voice. It includes exercises in relaxation, physical awareness, and proper breathing, as well as in the development of diction, range and projection as required for theatrical performance.

Transfer Credit: CSU; UC

TH 115 STAGE MOVEMENT AND COMBAT 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
This is an introduction to basic stage movement and combat for the actor. Emphasis will be placed on physical and spatial awareness, using movement creatively in characterization, and developing confidence in the physical self. Various stage combat techniques will be covered so that students can fully choreograph their own stage fights. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

TH 117 STAND-UP COMEDY 3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
This is a complete course in stand-up comedy from material development to performance. The student will create a comic persona, write several routines, and performs these routines at venues both on-and off-campus. Field trips to local comedy clubs will be arranged. This course may be taken for a maximum of 2 times.

TH 120 (CAN DRAM 12) THEATRE STAGECRAFT 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
This course introduces the student to the principles and basic techniques of theatrical scenery construction. The class will be involved in scene shop procedures and practices, safe tool usage, materials selection, and fabrication methods.

Transfer Credit: CSU; UC

TH 123 (CAN DRAM 14) STAGE MAKE-UP 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
This course provides instruction in techniques of theatrical make-up. Crew assignments in college productions are required. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

TH 123A ADVANCED STAGE MAKEUP 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Prerequisite: TH 123 or equivalent with a grade of Pass or "C" or higher.
Recommendation: ART 110 and ART 112 or equivalent with grades of Pass or "C" or higher

This course provides instruction in techniques of theatrical makeup with a emphasis on three-dimensional special effects makeup. A crew assignment on a college production is required.

Transfer Credit: CSU

TH 126 WIGS AND HAIR FOR THEATRE 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
This course provides instruction in basic hair and wig styling and basic wig-making techniques for the theater. Crew assignment in college production are required.

Transfer Credit: CSU

TH 130 REHEARSAL AND PERFORMANCE FOR THE MINOR ROLE 1.0 UNIT

Class hours: 0.5 Lecture/2.5 Laboratory

Prerequisite: By audition

Students in this course will rehearse and perform a major theatrical production. Students should contact the Theatre Department for a schedule of audition dates. This particular course is for those cast in "minor" roles. The course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

TH 131 REHEARSAL AND PERFORMANCE FOR THE SUPPORTING ROLE 2.0 UNITS

Class hours: 1.0 Lecture/4.0 Laboratory

Prerequisite: By audition

Students in this course will rehearse and perform a major theatrical production. Students should contact the Theatre Department for a schedule of audition dates. This particular course is for those cast in "supporting" roles. The course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

TH 132 REHEARSAL AND PERFORMANCE FOR THE LEADING ROLES 3.0 UNITS

Class hours: 1.0 Lecture/7.0 Laboratory

Students in this course will rehearse and perform a major theatrical production. Students should contact the Theatre Department for a schedule of audition dates. This particular course is for those cast in "major" roles. The course may be taken for a maximum of 4 times.

Transfer Credit: CSU; UC

TH 133 STAGE CREW ACTIVITY 1.0 UNIT

Class hours: 0.5 Lecture/2.5 Laboratory

This course introduces the student to backstage crew skills and duties in connection with the mounting of college plays. The student will

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be assigned to running or preparation crews as scenery, lighting, costumes, sound, props, makeup, or house management. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

TH 134 TECHNICAL PRODUCTION 2.0 UNITS

Class hours: 1.0 Lecture/5.0 Laboratory
This course introduces the student to technical theatre work in connection with the mounting of college plays. Emphasis is on the design and preparation of scenery, lighting, costume, sound, props, and makeup. Students may also be assigned to a running crew for some of their lab hours. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

TH 136 TOURING THEATRE PRODUCTION FOR SUPPORTING ROLES 2.0 UNITS

Class hours: 1.5 Lecture/1.5 Laboratory
Prerequisite: By audition
In this course students in supporting roles prepare one-acts plays, "story theatre" programs, or improvisational performances, which are taken on tour and performed for the community. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU

TH 137 TOURING THEATRE PRODUCTION FOR LEADING ROLES 2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory
Prerequisite: By audition
In this course students in leading roles prepare one-acts plays, "story theatre" programs, or improvisational performances, which are taken on tour and performed for community organizations and schools. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU

TH 140 BEGINNING JAZZ DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is an introduction to jazz dance techniques and styles. Emphasis is on mastering the fundamental skills basic to jazz dance technique and artistic performance. This course may be taken a maximum of 2 times.
Transfer Credit: CSU; UC

TH 141 INTERMEDIATE JAZZ DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: TH 140 or equivalent with a grade of Pass or "C" or higher.
This course is a continuation of the development of jazz dance techniques and style begun in TH 140 or DANC 140. Emphasis is on mastery of more complicated jazz dance combination patterns and their performance. This course may be taken a maximum of 2 times.
Transfer Credit: CSU; UC

TH 142 BEGINNING TAP DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is an introduction to basic tap dance techniques and styles. Emphasis is on mastery of basic tap dance steps, rhythms, combination patterns and their performance. This course may be taken a maximum of 2 times.
Transfer Credit: CSU; UC

TH 143 INTERMEDIATE TAP DANCE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: TH 142 or equivalent with a grade of Pass or "C" or higher.
This course is a continuation of the development of tap dance techniques and style begun in TH 142 or DANC 142. Emphasis is on mastery of more complicated tap dance steps, rhythms, combination patterns, and their performance. This course may be taken a maximum of 2 times.
Transfer Credit: CSU; UC

TH 144 DANCE FOR MUSICAL THEATRE 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is an introduction to musical theatre dance styles, techniques, and repertory. Emphasis is on mastering the fundamental skills and styles basic to musical theatre dance techniques and performance. This course may be taken a maximum of 2 times.
Transfer Credit: CSU

TH 145 COSTUME PRODUCTION FOR DANCE 1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory
This course introduces the student to the fabrication of costume elements including patterning, machine sewing, hand sewing, dyeing, and decoration for dance. This course may be taken for of a maximum of 4 times.
Transfer Credit: CSU; UC

TH 146 MUSICAL THEATRE PRODUCTION FOR CHORUS 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: By audition
This course involves participation in a major Theatre Department musical production as a member of the chorus. Activities may include singing, dancing, acting and/or playing a musical instrument. This course may be repeated for a maximum of 4 times.
Transfer Credit: CSU; UC

TH 147 MUSICAL THEATRE PRODUCTION FOR LEADING ROLES 3.0 UNITS

Class hours: 1.0 Lecture/7.0 Laboratory
Prerequisite: By audition
This course involves participation in a major Theatre Department musical production in a leading role. Activities will include singing, dancing, acting, and/or playing of musical instrument. This course may be taken for a maximum of 4 times.
Transfer Credit: CSU; UC

TH 150 APPRECIATION AND HISTORY OF THE MOTION PICTURE 3.0 UNITS

Class hours: 3.0 Lecture
This course examines the art of motion pictures and their impact upon society. It includes the viewing and critical analysis of feature films in various thematic categories.
Transfer Credit: CSU; UC

TH 151 MOTION PICTURES, RADIO AND TELEVISION 3.0 UNITS

Class hours: 3.0 Lecture
This is a broad survey of the history, theory, and production techniques of motion pictures, radio, and television, with emphasis on the form, content, and social impact of each. Students will participate in at least one field trip to a motion picture, radio, or television studio. (This course is not open to students currently enrolled in or who have completed RTV 151.)
Transfer Credit: CSU

TH 153 MOTION PICTURE PRODUCTION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
This is a hands-on course where students use a DV camera and a film (Super 8 or 16mm) camera to make two short original projects: a non-fictional film and a fictional film. Writing,

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storyboarding, pre-production, production, and post-production are also covered.

Transfer Credit: CSU

TH 156

TELEVISION PRODUCTION 3.0 UNITS

Class hours: 1.0 Lecture/5.0 Laboratory

This class provides practice in basic television production and video post-production. The focus will be on field video production and digital editing using Final Cut Pro. Students will do exercises, individual and team projects, learn about producing, directing, camera operation, and post-production. Qualified projects will be aired on cable as Cerritos College Campus TV programming. This course may be taken for a maximum of 4 times.

Transfer Credit: CSU

TH 157

TELEVISION COMMERCIAL AND PUBLIC SERVICE ANNOUNCEMENT PRODUCTION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: TH 153 or TH 156 or equivalent with a grade of Pass or "C" or higher.

This course is an introductory course in the study of the aesthetics and the production of the television commercial, including political ads and public service announcements. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

TH 158

MOTION PICTURE AND DIGITAL CINEMATOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: TH 153 or equivalent with a grade of Pass or "C" or higher.

This is an introductory course in the craft of both digital and film cinematography. Students shoot scenes using Super8 and 16mm film, as well as digital video (DV). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

TH 159

WORLD FILM 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ENGL 52 or ENGL 155 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the English Placement Process.

This course examines the art of motion pictures and its international and global impact. It includes the critical analysis of feature films as a reflection of national, ethnic and cultural values.

Transfer Credit: CSU; UC

TH 160

GREAT FILM DIRECTORS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

This is a survey course on the art and social impact of the film director. Through a series of collective film screenings, lectures, and discussions, students will analyze individual filmmakers. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

TH 171

OCCUPATIONAL WORK EXPERIENCE IN THEATRE 1.0 UNIT

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Theatre, in a declared Theatre major. One unit of Occupational Work Experience in Theatre required 60 non-paid hours or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students will meet with the instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

TH 193

MOTION PICTURE EDITING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course will serve as an introduction to motion picture editing by taking students through the history of editing and analysis specific techniques through in class examples of significant works. Students will apply their knowledge of editing techniques through exercises on non-linear editing tools where they will edit their own versions of scenes from common footage.

Transfer Credit: CSU

TH 212

SCENE STUDY 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: TH 110 or equivalent with a grade of Pass or "C" or higher.

This is an intensive acting course focusing on the study and performance of challenging scenes from Chekhov, Ibsen, Strindberg, Shaw, and Feydeau, as well as from Beckett, Pinter, Ionesco, Albee, and Mamet. Students will

explore multiple objectives, acting between the lines, and techniques for absurdist plays and farce.

Transfer Credit: CSU; UC

TH 213

HISTORICAL STYLES OF ACTING 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Prerequisite: TH 110 or equivalent with a grade of Pass or "C" or higher.

In this course students will learn acting methods and styles needed to perform in plays written before the 19th century. These may include plays from ancient Greece, Commedia dell'Arte, Shakespeare and his contemporaries, the Spanish Golden Age, English Restoration, French neoclassicism, Moliere, and 18th century authors of various nationalities. Students will also explore vocal production, movement patterns, costumes, and social modes and manners for each period study.

Transfer Credit: CSU; UC

TH 216

ACTING FOR THE CAMERA 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: TH 110 or equivalent with a grade of Pass or "C" or higher.

This course is designed for the experienced acting student to adapt stage acting techniques for the motion picture and television camera. Emphasis will be placed on gaining an understanding of camera shots, angles, the shooting process, auditioning and actor behavior in front of the camera. This course may be repeated for a maximum of 2 times.

Transfer Credit: CSU

TH 221

COSTUMING FOR THE STAGE 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

This course introduces the student to the principles and methods of costume crafts for stage purposes. Although design and construction are accentuated, the approach to costuming for the stage is underscored by an historical perspective. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU; UC

TH 221A

ADVANCED COSTUMING FOR THE STAGE 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: TH 221 or equivalent with a grade of Pass or "C" or higher.

This course provides instruction to the student who has become proficient with basic costume construction practices and techniques. In

this course, the focus is on pattern drafting, cutting, fitting, construction, and decoration of costumes. The design and construction of costumes is underscored by a historical perspective. Wardrobe crew chief or a design assignment on a college production is required. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

TH 222 (CAN DRAM 10) STAGE LIGHTING 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
This course introduces the student to the theory and practice of modern stage lighting. Emphasis is placed on the design and function of lighting equipment and control systems, as well as color theory, the historical perspective, and hands-on experience.

Transfer Credit: CSU; UC

TH 226 INTRODUCTION TO SCENIC DESIGN 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course introduces the student to the basic principles and techniques of scenic design for the theatre. The class will be involved in the conceptualization, analysis, and actual exploration of the design process. Emphasis will be placed on the development of the individual's design capabilities and knowledge of contemporary design approaches.

Transfer Credit: CSU; UC

TH 241 SCREENWRITING 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course provides an opportunity for students to develop a screenplay for television or motion pictures. Students learn the craft of screenwriting by studying published scripts, movies, and TV shows and by writing synopses, treatments scenes, and a production-worthy screenplay. This course may be taken a maximum of 2 times.

Transfer Credit: CSU; UC

TH 254 ADVANCED MOTION PICTURE PRODUCTION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: TH 153 or equivalent with a grade of Pass or "C" or higher.

This is an advanced course in the elements and practice of motion picture production. Students create and direct advanced motion picture projects using either 16mm film or digital video.

Transfer Credit: CSU

TH 293 ADVANCED MOTION PICTURE EDITING 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Prerequisite: TH 193 or equivalent with a grade of Pass or "C" or higher.

This course takes students through the more advanced features of current editing software such as Final Cut Pro 5, Live Type, Photoshop Elements, and Motion 2 to develop advanced skills in editing, compositing, and motion graphics to create better-edited projects. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

TH 298 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study
A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

TH 299 DIRECTED STUDIES 2.0 UNITS

Class hours: 3.0 Independent Study
Prerequisite: A previous college course in the discipline.

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a UC campus, pending review of appropriate course materials by UC staff. See a counselor for an explanation.

Transfer Credit: CSU

WELDING

(Technology Division)

WELD 39 (Not Degree Applicable) WELDING SHOP MATH 2.0 UNITS

Class hours: 2.0 Lecture

This course is designed to familiarize the student with the shop math typical to the welding industry. Emphasis will be placed on the practical applications of measuring, measuring instruments, area, volume, fractions, decimals and the metric system.

WELD 43 (Not Degree Applicable) WELDING OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Welding work experience 73 or 20 hours of employment per week for Welding work experience 74. The employment must be in a job related to the student's educational goal. Corequisite: (1) enrollment in the Welding vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for welding students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken for a maximum of 4 times.

WELD 44 (Not Degree Applicable) WELDING OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Welding work experience 73 or 20 hours of employment per week for Welding work experience 74. The employment must be in a job related to the student's educational goal. Corequisite: (1) enrollment in the Welding vocational program with 7 or more units including occupational work experience.

Work experience/career internship provides the opportunity for welding students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. In the process

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of doing so, it creates greater communication with increased understanding between the student/workers, the college, and the employer/trainers. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. Semester projects that relate to the major and job skills must be completed on the job/training site. These courses may be taken for a maximum of 4 times.

WELD 50 BLUE PRINT READING FOR THE WELDING TRADES 3.0 UNITS

Class hours: 3.0 Lecture

This course is designed to enable the student to read and interpret shop and structural drawings and prints. Emphasis is placed on structural shape identification, nomenclature, and symbols.

WELD 51L ADVANCED ARC WELDING SPECIALTY LAB 1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: WELD 120 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment.

This advanced level welding course is designed to further develop advanced specialized welding skills in the structural, piping, sheet metal, and construction industries. This course may be taken a maximum of 2 times.

WELD 52 PIPE WELDING FUNDAMENTALS 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: WELD 210L or equivalent with a grade of Pass or "C" or higher.

Recommendation: Current Los Angeles City or AWS certification for structural steel.

This advanced welding course is designed to utilize previously acquired welding skills and techniques on ferrous pipe in the rotated and fixed positions. Emphasis is placed on the welding of open groove pipe joints using the shielded metal arc welding (SMAW) process. Subjects covered will include joint preparation, alignment techniques, pre-heat and inter-pass temperatures, and post-heat requirements. Pipe flanges and fittings will be identified as to alloy content and applicable welding procedures.

WELD 53 PIPE LAYOUT 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: WELD 120 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This advanced welding course emphasizes practical techniques of pipe layout, terminology, use of layout tools, fittings, offset tie-ins, and rolled offset tie-in of parallel pipelines. Instruction in more advanced layout techniques will cover layout of calculated fittings involving pipelines of unequal sizes and compound offset tie-in fittings.

WELD 54L ADVANCED PIPE WELDING 2.0 UNITS

Class hours: 6.0 Laboratory

Prerequisite: WELD 52 or equivalent with a grade of Pass or "C" or higher.

This is a course designed to refine the student's previously acquired pipe welding skills and prepare the student to pass a certification test in pipe welding. Emphasis is placed on welding ferrous pipe in the horizontal fixed (5G), vertical fixed (2G), and 45 degree inclined (6G) positions using the shielded metal arc (SMAW) and gas metal arc (GMAW) welding processes. This course may be taken a maximum of 2 times.

WELD 55 MAINTENANCE WELDING 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: WELD 100 and WELD 120 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

This advanced course develops the techniques of maintenance welding including terminology, metal identification, heat treating, and welding of dissimilar metals. Emphasis is placed on following welding procedures as they relate to the job.

WELD 60 SAFETY AND THE WELDING ENVIRONMENT 1.0 UNIT

Class hours: 1.0 Lecture

This course is designed to familiarize the welding student with recognized safety practices of the industry. Emphasis will be placed on compliance with government safety codes and regulations. Students will be introduced to preventive health and safety techniques and practices. Safety concerns relating to welding and cutting will be covered for both shop and field work environments.

WELD 98 DIRECTED STUDIES 1.0 UNIT

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should

expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

WELD 99 DIRECTED STUDIES 2.0 UNITS

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

WELD 100 WELDING FUNDAMENTALS 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

This introductory course is designed to familiarize the student with the history, principles, and practices of the welding industry and their relationship to our economy and society. Emphasis is placed on technical and practical applications of metal cutting, brazing and soldering, shielded metal arc, gas metal arc, gas tungsten arc welding processes, shop and field safety practices, weld testing and welding metallurgy.

Transfer Credit: CSU

WELD 120 BEGINNING ARC WELDING 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: WELD 100 with a grade of Pass or "C" or higher, or concurrent enrollment, or appropriate work experience.

This course is designed for the beginning student welder covering the technical and practical aspects of the shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and flux cored arc welding (FCAW) processes on ferrous and non-ferrous metals. Emphasis is placed on the safe operation of manual and semi-automatic welding and cutting tools and equipment.

Transfer Credit: CSU

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WELD 130 GAS TUNGSTEN ARC WELDING FUNDAMENTALS 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory
Recommendation: WELD 100 or WELD 120 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment, or appropriate work experience.

This course is designed to provide the student with technical and practical welding skills on ferrous and non-ferrous metals using the gas tungsten arc welding process (GTAW), commonly known as TIG. Related classroom instruction covers technical data pertaining to this welding process with special emphasis on operational parameters of inverter type machines.

Transfer Credit: CSU

WELD 170 STRUCTURAL FABRICATION 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
Prerequisite: WELD 100 or WELD 120 or WELD 130 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WELD 50 or equivalent with a grade of Pass or "C" or higher.

This is a course designed to develop welding skills and structural fabrication techniques on real or simulated metal construction projects. Emphasis will be on the safe operation of fabricating equipment as applied to structural steel components. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WELD 200 INTERMEDIATE ARC WELDING 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory
Prerequisite: WELD 120 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This is a course designed to refine the student's previously acquired welding skills and prepare the student to pass welding certification tests. Emphasis is placed on welding in the vertical and overhead positions and the welding of alloy steels with compatible filler metals using the shielded metal arc (SMAW), gas metal arc (GMAW), and flux cored arc (FCAW) welding processes. Related classroom instruction is given in the technical data pertaining to these processes.

Transfer Credit: CSU

WELD 210L ARC WELDING APPLICATIONS 2.0 UNITS

Class hours: 6.0 Laboratory
Prerequisite: WELD 200 or equivalent with a grade of Pass or "C" or higher.

This advanced welding course is designed to prepare the student welder for structural steel welding certifications using the SMAW (Shielded Metal Arc Welding) and FCAW (Flux Cored Arc Welding) processes. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

WELD 220 CERTIFICATION AND LICENSING FOR WELDERS 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: WELD 200 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment, or appropriate work experience.

This is a technical course for the advanced welding student. Material covered will include data on all approved modern welding processes, welding filler metals, approved welded joint design, and welding procedures. Special emphasis will be placed on welding symbols and American Welding Society (AWS) Structural Code specifications leading to Los Angeles City and AWS welding certifications.

Transfer Credit: CSU

WELD 240 ADVANCED GAS TUNGSTEN ARC WELDING LABORATORY 2.0 UNITS

Class hours: 6.0 Laboratory

Prerequisite: WELD 130 or equivalent with a grade of Pass or "C" or higher.

This is an advanced welding course using the gas tungsten arc welding (GTAW) process. This course is designed to further the skills of the student in this process. Special emphasis is placed on the welding of ferrous and non-ferrous metals in the vertical position. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WELD 250L GAS TUNGSTEN ARC WELDING APPLICATIONS 2.0 UNITS

Class hours: 6.0 Laboratory

Prerequisite: WELD 240 or equivalent with a grade of Pass or "C" or higher.

This advanced course is designed to further increase the manipulative skills and technical knowledge of the student welder using the gas tungsten arc welding (GTAW) process on .020" to .030" thickness metals as well as welding the root bead on high pressure pipe. All welding samples will comply with standards set by the American Welding Society or industry. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WELD 270 STRUCTURAL LAYOUT 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: WELD 53 or WELD 170 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WELD 39 and WELD 50 or equivalent with a grade of Pass or "C" or higher.

This advanced course is designed to further develop layout skills on structural plate, beams, channel, and angle iron. The student will work from prints utilizing measuring tools and fabrication equipment to develop weldments typical in the industry.

Transfer Credit: CSU

WOMEN'S STUDIES

(Humanities, Social Science Division)

WS 101 ISSUES FOR WOMEN IN AMERICAN SOCIETY 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

Issues for Women in American Society is a multidisciplinary course that provides a foundation for interpreting gender issues in America. It examines the essential components of women's studies as an academic discipline; delineates theories of feminism and history of women's movements; evaluates the social construction and politics of gender; analyzes the intersection of gender with race, ethnicity, social class and sexual orientation; and identifies the issues of feminism in a global context.

Transfer Credit: CSU; UC

WS 102 WOMEN AND RELIGION 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Satisfactory completion of the Reading Placement Process or READ 54 or equivalent with a grade of Pass or "C" or higher and satisfactory completion of English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course is a multidisciplinary course that investigates women's religious lives. It will center around the writing of women's experiences within world religions. The course will include such issues as identity, women's religious leadership, language and

liturgy, rituals performed by women and sacred texts. Students will learn about world religions generally, and women's lives in these religions specifically.
Transfer Credit: CSU; UC

WS 103 WOMEN, THEIR BODIES AND HEALTH

3.0 UNITS

Class hours: 3.0 Lecture
This course will examine contemporary women's health issues and body image concerns. General topics will include images of women, lifespan changes, mental health, eating disorders, prevention of abuse and self-harm, social roles, sexual identity and sexuality, relationships, birth control and pregnancy. Current research on cardiovascular disease, cancer and other chronic conditions will be discussed as they pertain to women's issues. Students will develop the skills necessary to become wiser consumers of health and beauty-enhancing products. (This course is not open to students currently enrolled or who have completed HED 103)
Transfer Credit: CSU

WS 104 COMMUNITY ORGANIZING AND ACTIVISM

3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: WS 101 with a grade of Pass or "C" or higher.
This course is designed to encourage the relationship between Cerritos College students who are interested in working with feminist-based organizations and the local organizations that need assistance. This class will expose students to potential volunteer, internship, and job opportunities while helping them build more impressive resumes and improve the lives of women.
Transfer Credit: CSU

WS 106 WOMEN IN SPORTS

3.0 UNITS

Class hours: 3.0 Lecture
This course provides students with a chronological history, analysis and interpretation of people, events, and issues that affect women in sports, in past and present society. Physiological, sociological, and psychological aspects of female athletes as related to sports, history, and education will be covered. Students will gain an understanding of the significant events of women in athletics from the past to the present and how their significance will determine the future of women in sports. This course is not open to students who are enrolled in or who have received credit for PE 106.
Transfer Credit: CSU; UC

WS 202 GENDER AND SOCIETY

3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: SOC 101 or equivalent with a grade of Pass or "C" or higher or equivalent with a grade of Pass or "C" or higher.
This course addresses the concept of gender as an organizing principle in men's and women's lives from a sociological perspective. The class will address the issue of the social construction of gender and how it relates to race, ethnicity, class, and sexuality, and how social institutions are gendered. Topics to be covered will include cultural ideas of gender, as well as gender and the economy, politics, the media, families, and education. It will also address how gender impacts interactions between individuals and groups. This course is not open to students who are enrolled in or who received credit in SOC 202.
Transfer Credit: CSU; UC

WS 204 WOMEN IN AMERICAN HISTORY

3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: Satisfactory completion of an American history survey course, the Reading Placement Process or READ 54, and the English Placement process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.
This lecture/discussion course will survey women's history in the United States from colonial times to the present. It will focus on defining the similarities and differences in historical experiences of women based on their social class, race, and ethnicity. Topics of concentration include the changing roles of women in the private and public spheres; an analysis of the agendas, strategies, and consequences of the women's movements; and the historical evolution of the definitions of feminism and social construction of gender. This course is not open to students who are enrolled in or have received credit in HIST 204.
Transfer Credit: CSU; UC

WS 205 THE ANTHROPOLOGY OF SEXUALITY AND GENDER

3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: Satisfactory completion of English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher, and satisfactory completion of the Reading Placement Process or READ 54 with a grade of Pass or "C" or higher.
This course examines the cultural connection of human sexuality and gender in an anthropological framework. Biological and cultural bases for the multiple expressions

of sexuality and gender found around the world are presented. Case studies include food foraging, horticultural, agricultural, industrial, and post-industrial societies. A central concern is the interaction between subsistence practices, cultural economics, and status in the construction of "normal" and "abnormal" sexualities and genders. Student must be at least 18 years of age or have parental consent in order to take this course. This course is not open to students who are enrolled in ANTH 205 or have received credit in ANTH 205.
Transfer Credit: CSU; UC

WS 206 WOMEN IN THE GLOBAL ECONOMY

3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: ENGL 100.
This course is an introduction to the global economy from the perspectives of women in the Third World. Drawing from various disciplinary fields such as economics, history, political science, anthropology and postcolonial studies, it examines critically the processes of globalization that impact the multiple identities and oppressions which shape women's lives with respect to race, gender, class, and culture. This course studies the consequences of strategies of modernization and neocolonialism employed by economic development such as the World Bank and International Monetary Fund (IMF) on the lives of women in the developing countries and the surrounding ecological environment. This course is not open to students who have received credit in ECON 102.
Transfer Credit: CSU; UC

WOODWORKING MANUFACTURING TECHNOLOGY

(Technology Division)

WMT 1 (Not Degree Applicable) OPEN ENTRY/EXIT

WOODWORKING

0.5 UNIT

Class hours: 3.0 Laboratory
This open entry/exit course is designed to provide between semester access to the woodworking program for students to develop, enhance, and refine their woodworking skills. Students are accepted into existing courses on a space-available basis dependent on the students' skills and needs and can exit when their individual goals have been met. This course is intended to facilitate basic fundamental skills for entry level employment.

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WMT 43 (Not Degree Applicable) **WOODWORKING MANUFACTURING** **TECHNOLOGIES OCCUPATIONAL** **WORK EXPERIENCE 3.0 UNITS**

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Theatre, in a declared Theatre major. One unit of Occupational Work Experience in Theatre required 60 non-paid hours or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students will meet with the instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 44 (Not Degree Applicable) **WOODWORKING MANUFACTURING** **TECHNOLOGIES OCCUPATIONAL** **WORK EXPERIENCE 4.0 UNITS**

Class hours: 1 lecture

Corequisite: Enrollment in 7 or more units, including Occupational Work Experience in Theatre, in a declared Theatre major. One unit of Occupational Work Experience in Theatre required 60 non-paid hours or 75 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for students to apply skills and knowledge learned in the classroom to related experiences on the job/training site. The aim of the course is to assist students in expanding specific job skills. This creates greater communication with increased understanding between the students/workers, the college, and the employers/trainers. First semester students will meet with the instructors for a minimum of one hour per week. Students also pursue a program of self-evaluation to determine individual job weaknesses and strengths. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 80 **RUNNING A WOODWORKING** **BUSINESS 3.0 UNITS**

Class hours: 3.0 Lecture

This course provides an overview of business management considerations and practices for the establishment and operation of a successful woodworking business.

WMT 98 **DIRECTED STUDIES 1.0 UNIT**

Class hours: 3.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

WMT 99 **DIRECTED STUDIES 2.0 UNITS**

Class hours: 6.0 Independent Study

A course to provide opportunity for individual research and field projects under the direction of a faculty member in a given department. With the guidance of the faculty member, students prepare and carry out a written learning agreement describing the purposes and outcomes of the project. Students should expect to meet with the supervising faculty member one to two hours each week for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 hours, 2 units for 108 hours). This course may be taken a maximum of 2 times.

WMT 101 **INTRODUCTION TO** **WOODWORKING 3.0 UNITS**

Class hours: 2.5 Lecture/2.0 Laboratory

This introductory woodworking course acquaints the student with the essential principles of woodworking. Topics include wood technology, use of hand tools, portable power tools, and basic machinery. Emphasis is placed on proper technique, safety, and shop policies for the woodworking facility.

Transfer Credit: CSU

WMT 102 **INTRODUCTION TO SOLID** **WOOD CASEGOODS 4.0 UNITS**

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 101 or equivalent with a grade of Pass or "C" or higher.

This intermediate course increases the student's skill in the use of hand tools, portable power tools, and machinery. Topics include project planning and implementation, wood technology, and hand and machine joinery as it pertains to solid wood construction in free-standing furniture casework. Emphasis is placed on proper technique, safety, and shop

policies for the woodworking facility. This course may be taken a maximum of 2 times.
Transfer Credit: CSU

WMT 103 **INTRODUCTION TO TABLES 4.0 UNITS**

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 101 or equivalent with a grade of Pass or "C" or higher.

This intermediate course increases the student's skill in the use of hand tools, portable power tools, and machinery. Topics include project planning and implementation, wood technology, and hand and machine joinery as it pertains to table construction. Emphasis is placed on proper techniques, safety, and shop policies for the woodworking facility. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 107 **WOOD FINISHING 3.0 UNITS**

Class hours: 2.0 Lecture/4.0 Laboratory

This course is designed to enable the student to understand the functions of equipment used in industrial finishing operations. The basic chemistry of lacquers, enamels, stains and glazes will be covered. Instruction and practice will include the use of brushes and the spray gun in coating various materials with emphasis on wood. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 108 **WOOD CARVING** **FOR FURNITURE 2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

This course introduces the student to the fundamentals of wood carving relative to wood furniture. Topics include chip carving, letter carving, shallow relief carving, and carving the Newport Shell. Emphasis is placed on the selection and safe use of tools, carving techniques, choice of wood, and wood finishes. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 111L **INTRODUCTION TO** **WOODWORKING LAB 1.0 UNIT**

Class hours: 3.0 Laboratory

Prerequisite: WMT 101 or equivalent with a grade of Pass or "C" or higher.

This course provides the student who has completed WMT 101 the opportunity to hone and refine skills and complete projects required in the prerequisite course. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

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WMT 115 SCROLLSAW FRETWORK AND INTARSIA 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

This course introduces students to the methods, tools, materials, and machinery used in scrollsawing. Students have the opportunity to create fretwork and intarsia projects using the scrollsaw. This course may be taken a maximum of 2 times.

WMT 117 WOODWORKING APPRECIATION 1.0 UNITS

Class hours: 1.0 Lecture/1.3 Laboratory

This course analyzes and explores the culture and history of woodworking in the Los Angeles region. Critical analysis of architectural woodworking and furnishings will be studied. The course focus is on wood and wood products design, markers, historically significant buildings, and collections, both public and private. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

WMT 118 INTRODUCTION TO WOODTURNING 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Recommendation: WMT 101 and WMT 102 or WMT 103 or equivalent with grades of Pass or "C" or higher.

This course introduces students to the methods, tools, materials, and machinery used in woodturning. Students have the opportunity to create turned projects using the woodworking lathe. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 119L INTRODUCTION TO WOODTURNING LAB 1.0 UNIT

Class hours: 4.0 Laboratory

Prerequisite: WMT 118 or equivalent with a grade of Pass or "C" or higher.

This laboratory course provides students who have completed WMT 118 the opportunity to improve and refine their woodturning skills in order to prepare them for advanced woodturning courses. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 130 FURNITURE DESIGN 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course is designed to introduce the student to the process of furniture design. Topics include conceptualization, drawing,

engineering, ergonomics, style and mock-ups. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 132 CHAIR DESIGN AND CONSTRUCTION 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: WMT 102 and WMT 103 or equivalent with grades of Pass or "C" or higher.

This course for the advanced student covers the history, design, construction and production of seating pieces. The student will design and build a solid wood or exposed frame chair or bench. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 134 FRAME MAKING 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: WMT 103 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course introduces the fundamental principles and techniques of frame making for upholstered furniture. Topics include design, engineering, layout, machine woodworking and frame assembly. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

WMT 137 OUTDOOR FURNITURE 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: WMT 102 or WMT 103 or equivalent with a grade of Pass or "C" or higher.

This course instructs students in the design and construction of outdoor furniture. Projects include tables, chairs, benches, lounges, stands and umbrellas. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 144 JIGS AND FIXTURES 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: WMT 102 or WMT 103 or WMT 155 or equivalent with a grade of Pass or "C" or higher.

This course introduces students to jigs and fixtures associated with various machinery and processes in the woodworking lab. Topics include machinery tune-up, jig and fixture design, measurement, materials, hardware, construction techniques, dust collection, and safety. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 148 FURNITURE MAKING AND MANUFACTURING 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: WMT 103 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course teaches basic elements of production furniture design, prototype building, and product evaluation. The course acquaints the student with all phases of furniture production as a profession. Students design, build, and test market furniture samples from which items will be selected for manufacturing in the Production Furniture Making and Manufacturing course (WMT 24.8). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 151 INTRODUCTION TO FACEFRAME CABINETMAKING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

This course introduces the student to the methods, materials, tools, and machinery used in the construction of traditional faceframe cabinetry. Classroom topics will include the history, design, fabrication, and safe use of woodworking machinery and materials involved in cabinet construction. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 153 32MM SYSTEM OF CABINETMAKING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 151 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WMT 181 or equivalent with a grade of Pass or "C" or higher.

In this course, students learn the foundational information and skills related to the 32mm system of cabinet manufacturing. It includes detailed coverage of the system, hands-on experience in product design, layout of boring patterns, and CNC machine operation. This class may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 154 INTRODUCTION TO CABINET INSTALLATION 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: WMT 151 or WMT 153 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course introduces the student to the methods, materials, fasteners, hardware and tools used to install residential, commercial

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and institutional cabinets. Classroom topics include reading of blueprints, layout, leveling, scribing, milling, fitting and fastening cabinets into place. A major emphasis will be on the safe use of tools and materials involved in cabinet installation. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 155 ARCHITECTURAL MILLWORK 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 151 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course introduces the student to the methods, materials, tools, and machinery used in the manufacturing and installation of architectural millwork. Classroom topics include the history, design, fabrication, installation, and safe use of woodworking machinery and materials involved in architectural millwork and finished carpentry. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

WMT 157 PASSAGE DOOR 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT151 or WMT 102 or WMT 103 or equivalent with grades of Credit or "C" or higher, or appropriate work experience.

Recommendation: WMT 155

This course introduces the student to the methods, materials, tools, and machinery used in the design, manufacturing and installation of passage doors. Classroom topics include the history, design, milling, assembly and installation of doors. A major emphasis will be on the safe use of woodworking machinery and materials involved in door millwork. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 159 SOLID SURFACE FABRICATION 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Recommendation: WMT 101 or WMT 151.

This course will prepare students for solid surface fabrication industry certification/qualification. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 171 INTRODUCTION TO WOODEN BOAT BUILDING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: WMT 101 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WMT 103 or equivalent with a grade of Pass or "C" or higher

This course is an introduction to the methods and materials used in the construction of modern and traditional wooden boats. Classroom topics include the history, design, engineering, and safe use of woodworking techniques and materials involved in wooden boat construction. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 181 INTRODUCTION TO COMPUTER OPERATIONS FOR CABINETMAKING AND DESIGN 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

This course introduces students to computer aided cabinet design and manufacturing. Topics include utilization of software to design and manufacture cabinets, details of design standards, variables and parameters as well as industry drawings, contracts, proposals, materials, and cut lists. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 201 WOODWORKING WITH HAND TOOLS 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

This course introduces students to the hand tools used in woodworking. Topics include sharpening, tool identification, wood technology and hand plane adjustment for optimum performance. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 202 ADVANCED FURNITURE CASEGOODS 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 102 and WMT 103 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WMT 201

This advanced course covers the design and building of museum quality solid wood cabinets. Topics include the aesthetics of design, making scale mockups, selection of grain and color to complement the design, and advanced joinery techniques. Coopering, bent laminating, and basic veneering are also covered. Emphasis is placed on the highest degree of workmanship and design. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 203 WOOD VENEERING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 102 or WMT 103 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to the methods, materials, tools, and machinery used to process wood veneers. Topics include material identification, veneer selection, pattern layout, substrate selection, and clamping methods used to lay-up veneer on various types and shapes of substrates. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 204 ADVANCED TABLES 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 102 and WMT 103 or equivalent with grades of Pass "C" or higher.

This advanced course expands the student's knowledge of tables design and construction to include large tables such as dining and conference tables, expanding tables, and torsion box table top construction. Topics include table design, advanced table construction, bent lamination, curved part joinery and angled joinery. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 211 THE WORKBENCH CLASS 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: WMT 102 and WMT 103 or equivalent with grades of Pass or "C" or higher.

Recommendation: WMT 201

This course provides the student with the background and skills required to research, design, purchase materials, select hardware, and manufacture a workbench. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 212 ROUTERS AND ROUTER TABLES 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: WMT 101 or WMT 151 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WMT 102 or WMT 103 or equivalent with a grade of Pass or "C" or higher.

In this course students will design and manufacture "The Ultimate Router Table."

The router table is one of the most versatile and essential pieces of equipment for any woodworker. Course topics include comparison and evaluation of routers available on the

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market, design, construction, and use of jigs and fixtures. This course may be taken for a maximum of 2 times.

Transfer Credit: CSU

WMT 218 POLYCHROMATIC AND CLOSED FORM TURNING 3.0 UNITS

Class hours: 1.5 Lecture/4.5 Laboratory

Prerequisite: WMT 118 and WMT 101 or WMT 151 or equivalent with grades of Pass or "C" or higher.

Recommendation: WMT 102 or WMT 103.

This advanced woodturning course enhances the beginning woodturning student's skill. Topics include polychromatic bowl construction, closed-form vessel turning, and other advanced skills. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 219L WOODTURNING LAB 1.0 UNIT

Class hours: 4.0 Laboratory

Prerequisite: WMT 218 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WMT 102 or WMT 103.

This course allows students to perfect and hone skills acquired during previous woodturning courses. In this lab, students design and construct woodturning projects of their choice that are relevant to the subject matter being taught during the same time period. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 228L PROJECT COMPLETION LAB 1.0 UNIT

Class hours: 4.0 Laboratory

Prerequisite: WMT 151 or WMT 153 or WMT 102 or WMT 103 or equivalent with a grade of Pass or "C" or higher.

This course provides students with the necessary time and facility to continue working a project to completion. Instruction is project specific with emphasis on problem solving and detail. This course may be taken for a total of 4 times.

Transfer Credit: CSU

WMT 229L COMPREHENSIVE WOODWORKING MANUFACTURING SPECIALTY 2.5 UNITS

Class hours: 8.0 Laboratory

Prerequisite: WMT 102 or WMT 103 or WMT 151 or WMT 153 or equivalent with a grade of Pass or "C" or higher.

This course allows students to perfect and hone skills acquired during previous comprehensive woodworking courses. In this lab, students will design and construct a project of their

choice that is relevant to the subject matter being taught. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 233 MORRIS CHAIR 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 102 and WMT 103 or equivalent with grades of Pass or "C" or higher.

This course in furniture making will challenge and improve the student's skills through the manufacturing of a historical chair, the Morris chair. Hand tools, machinery and hand power tools are used in an advanced setting. Topics include planning, manufacturing, utilizing solid wood joinery, complex laminations, subassembly and final assembly as well as finishing. The class focuses on the history and design of the Morris Chair, the first recliner. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

WMT 235 WINDSOR CHAIR 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Recommendation: WMT 118 with a grade of Pass or "C" or higher.

This course will introduce the student to the materials, methods and tools used to make and manufacture a reproduction of an eighteenth century Windsor chair. Topics include layout, turning, bending, and shaping the various chair components, final assembly and finishing of the chair. Emphasis is placed on the safe use of tools and materials used in the chair construction. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 239L TRADITIONAL FURNITURE LAB 1.0 UNIT

Class hours: 3.5 Laboratory

Prerequisite: WMT 235 or equivalent with a grade of Pass or "C" or higher.

This course allows students to perfect and hone skills acquired during previous traditional furniture classes. In this class, students will design and construct traditional furniture pieces of their choice that are variations of pieces constructed in earlier classes. Emphasis is placed on safety, hand tool operations, and traditional construction and finishing techniques. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 241 SPECIAL TOPICS IN HANDTOOLS 2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Prerequisite: WMT 201 or equivalent with a grade of Pass or "C" or higher.

In this course, students will explore advanced topics in woodworking with handtools. Topics may include joinery, dovetails, jigs, saw sharpening, handplanes, or other advanced subjects. The specific topic of a particular offering will be announced in the Schedule of Classes. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 244 CHEST OF DRAWERS 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 102 and WMT 103 or equivalent with a grade of Pass or "C" or higher.

Recommendation: WMT 201

This advanced course will reinforce skills learned in previous classes and challenge the student to demonstrate the ability to plan, design, fabricate and finish a chest of drawers. The course will allow the student more in-depth experience in solid-wood-panel side and frame-and-panel methods of construction. The focus will be on the carcass as well as on drawer construction. Topics include history, planning, design, fabrication and finishing as they pertain to building a chest of drawers. The course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 246 ROCKING CHAIR 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 102, WMT 103, and WMT 132 or equivalent with grades of Pass or "C" or higher.

Recommendation: WMT 130

This advanced furniture making course introduces the student to the methods, materials, tools and machinery used in the fabrication of a rocking chair. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 248 PRODUCTION FURNITURE MAKING AND MANUFACTURING 4.0 UNITS

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: WMT 102 and WMT 103 or equivalent with grades of Pass or "C" or higher.

The course enables students to work as a team in the manufacturing of a limited edition of student-designed furniture items. The

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course includes all the steps from setting up a furniture plant to building a finished furniture product. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

WMT 249L FURNITURE MANUFACTURING SPECIALTY 2.5 UNITS

Class hours: 8.0 Laboratory

Prerequisite: WMT 102 or WMT 103 or equivalent with a grade of Pass or "C" or higher.

This course allows students to perfect and hone skills acquired during previous furniture courses. In this lab, students will design and construct woodworking projects that are relevant to the subject matter being taught during the same time period. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 250 INTERMEDIATE FACEFRAME CABINETMAKING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 151 and WMT 181 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

In this course the student will review and learn additional methods, materials, tools, and machinery used in the design, manufacturing, and installation of face frame cabinetry. Classroom topics include the history, design, milling, assembly, and installation of face frame cabinetry. Students will work in teams to design, fabricate and install a complete set of kitchen cabinets. A major emphasis will be on production techniques and the safe use of woodworking machinery and materials involved in cabinetmaking and millwork. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 251 ADVANCED FACEFRAME CABINETMAKING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 250 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides the student the opportunity to improve faceframe cabinetmaking skills by the use of tool and machinery specific to advanced faceframe cabinetmaking and millwork. Topics include inset door fabrication, coopered door construction, linen fold and other special panel detailing as well as applied moldings, appliques and carvings. Students will fabricate a series of project samples for use in future advanced

cabinetmaking projects. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 252 INTERMEDIATE 32 MM SYSTEM CABINETMAKING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 153 and WMT 181 or equivalent with grades of Pass or "C" or higher, or appropriate work experience.

Recommendation: WMT 281

In this course the student will review and learn additional methods, materials, tools, and machinery used in the design, manufacturing, and installation of European 32MM system cabinetry. Classroom topics include the history, design, milling, assembly, and installation of European 32MM system cabinetry. Students will work in teams to design, fabricate and install a complete set of European cabinets. A major emphasis will be focused on production techniques and the safe use of computerized numerical control panel processing machinery. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 253 ADVANCED 32MM SYSTEM OF CABINETMAKING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 252 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

This course provides the student the opportunity to improve European 32MM system cabinetmaking skills by the use of tools and machinery specific to advanced 32MM system cabinetmaking and millwork. Topics include advanced boring patterns, inset door installation, coopered and radius door applications, and other special trim and filler detailing as well as applied moldings, appliques and carvings. Students will fabricate a series of project samples for use with future advanced 32MM system cabinetmaking projects. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 258 MANTELS AND WALL SYSTEMS 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 102, 103, or WMT 151 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to the methods, materials, tools, and machinery used in the design, and manufacturing and installation of mantels and wall systems. Topics will include the history, design, and milling, assembly and installation of mantels and wall

paneling. A major emphasis will be focused on the safe use of woodworking machinery and materials involved in architectural millwork. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

WMT 259L SOLID SURFACE MANUFACTURING SPECIALTY LAB 2.5 UNITS

Class hours: 8.0 Laboratory

Prerequisite: WMT 159 or equivalent with a grade of Pass or "C" or higher.

This course allows students to perfect and hone skills acquired during previous solid surface fabrication courses. In this lab, students will design and construct a project of their choice that is relevant to the subject matter being taught. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

WMT 268A PRODUCTION CABINETMAKING (COMMERCIAL/INSTITUTIONAL) 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Prerequisite: WMT 151 or WMT 153 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Corequisite: WMT 250 or WMT 252.

Recommendation: WMT 154, WMT 155, WMT 181

This course enables the students to work as a team in the design, manufacturing, and installation of cabinets and fixtures for on-campus use. This course includes instruction in production techniques, materials science, cost estimating, time management, and scheduling. This course specializes in the fabrication and installation of cabinetry and fixtures in the category of institutional or commercial production. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

WMT 268B PRODUCTION CABINETMAKING AND MANUFACTURING (RESIDENTIAL) 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Prerequisite: WMT 151 or WMT 153 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Corequisite: WMT 250 or WMT 252.

Recommendation: WMT 154, WMT 155, WMT 181

This course specializes in the fabrication and installation of residential cabinetry and millwork. Topics include panel selection, wood choice, product adaptability and residential construction applications. Students will also

receive instruction in production techniques, materials science, cost estimating, time management and scheduling. This course enables students to work as a team in the design, manufacturing, and installation of cabinets and fixtures for on-campus use. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

**WMT 268C
PRODUCTION CABINETMAKING
AND MANUFACTURING
(MASS PRODUCTION) 5.0 UNITS**

Class hours: 4.0 Lecture/4.0 Laboratory

Prerequisite: WMT 151 or WMT 153 or equivalent with a grade of Pass or "C" or higher, or appropriate work experience.

Corequisite: WMT 250 or WMT 252.

Recommendation: WMT 154, WMT 155, WMT 181

This course specializes in the fabrication and installation of mass production cabinetry, furniture products and millwork. Topics include material selection, product options, ergonomics, functionality and mass production construction applications. Students will also receive instruction in mass production systems, materials science, cost analysis, estimating, time management and building to industry standards. This course enables students to work as team in the design, manufacturing and installation of mass production cabinetry and fixtures for on-campus use. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

**WMT 269L
CABINETMAKING MANUFACTURING
SPECIALTY 2.5 UNITS**

Class hours: 8.0 Laboratory

Prerequisite: WMT 151 or WMT 153 or equivalent with a grade of Credit or "C" or higher.

This course allows students to perfect and hone skills acquired during previous cabinetmaking courses. In this lab, students design and construct a cabinet project(s) that is relevant to the subject matter being taught during the same time period. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

**WMT 281
ADVANCED COMPUTER OPERATIONS
FOR CABINETMAKING
AND DESIGN 2.5 UNITS**

Class hours: 2.0 Lecture/2.0 Laboratory

Prerequisite: WMT 181 or equivalent with a grade of Pass or "C" or higher.

This course provides the student with the advanced skills and knowledge required to better utilize cabinet manufacturing

computer systems and software. Classroom topics will include cutting list development, panel optimizing, job/cost estimating, and introduction to catalog writing for software customization. This course may be taken for a maximum of 2 times

Transfer Credit: CSU

ZOOLOGY

(Science, Engineering, Mathematics Division)

**ZOOL 120
INTRODUCTION TO
ANIMAL BIOLOGY 4.0 UNITS**

Class hours: 2.0 Lecture/6.0 Laboratory

Prerequisite: Satisfactory completion of the English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This is a survey course in animal biology. Included are a taxonomic review of major invertebrate and vertebrate groups, animal adaptations and behavior, basic anatomy and physiology (with emphasis on vertebrates), cell biology, reproduction and development, genetics, ecology, and evolution. Laboratory dissection is used to illustrate these principles. This is designed as an entry level course for both majors and non-majors in biology.

Transfer Credit: CSU; UC

NON-CREDIT COURSES ADULT EDUCATION CLASSES

AED 5.05 WORD PROCESSING 0 UNIT

Class hours: 10 lecture
This course is designed to provide an introduction to Word Processing. The course will give the student a working knowledge of the theory of Word Processing through the use of Word Processing Equipment. Emphasis will be on fundamental operations, power typing, and practical application of functions learned.

AED 5.08 MULTI-CLERICAL SKILLS 0 UNIT

Class hours: 2 lecture/2 lab
This is a course designed for currently disabled students who have therapeutic or vocational skill-building needs. The content offered, dependent upon the individual's need and abilities, will range from basic concepts and skills to the development of personal and job-related skills.

AED 10.01 EXERCISE FOR SENIORS 0 UNIT

Class hours: 2 lecture/4 lab
This course enables students to increase and maintain flexibility and strength, develop and maintain good posture, cardiovascular awareness and fitness, and develop skills for stress management. This course may be repeated.

AED 10.03 WALK DON'T RUN 0 UNIT

Class hours: .75 lecture/.75 lab
The student will learn to use walking as a viable form of exercise. He will learn to warm-up for his exercise program, recognize danger signals, increase his strength and endurance. Selecting proper footwear for exercise and daily use will be part of the lecture series.

AED 10.06 MUSIC EXPERIENCE FOR SENIORS 0 UNIT

Class hours: 1 lecture/1 lab
This course will focus on students learning about music, old and new, through listening, discussions, and activities. This course may be repeated.

AED 10.07 PHYSICAL FITNESS FOR OLDER ADULTS 0 UNIT

Class hours: .5 lecture/1.0 lab
This course is designed for adults with or without physical limitations. Non-strenuous, rhythmic exercises, adapted to physical abilities of participants, will be taught. Participants create and maintain a positive self-image toward health and life through a planned physical fitness program.

AED 10.08 EXERCISE FOR ADULTS 0 UNIT

Class hours: 9 lecture/27 lab
This course is designed to enable students to increase and maintain muscular flexibility and strength, develop and maintain good posture, cardiovascular awareness and fitness, and develop skills for stress management.

AED 10.09 AEROBICS FOR SENIORS 0 UNIT

Class hours: 9 lecture/27 lab
A slow cardiovascular workout for seniors, combining low-impact aerobics, walking, stretching, and strengthening of major muscle groups.

AED 10.10 MOVEMENT INTO FITNESS 0 UNIT

Class hours: .5 lecture/1.5 lab
This fitness program is designed for older adults to increase flexibility and strengthen major muscle groups. This course may be repeated.

AED 10.11 LIGHT WEIGHTS FOR SENIORS: CONDITIONING IN THE GYM 0 UNIT

Class hours: 3 lab
An introduction to the use of light weights and weight machines in the gym to condition that various muscle groups of the body. The course is designed specifically for senior citizens.

AED 10.12 DEFENSE AWARENESS FOR SENIORS 0 UNIT

Class hours: 1 lecture/1 lab
This course is designed to teach senior citizens how to feel in control of their environment by highlighting everyday, natural movements and how to use them to enhance their safety and well-being.

AED 11.05 REFLEXOLOGY - LOVE YOUR FEET 0 UNIT

Class hours: 1 lecture/1 lab
Learn foot massage and reflexology in this "hands-on" class. Learn how this ancient art relieves discomfort and improves circulation by massaging points on the ankles, heels, and soles of the foot.

AED 11.06 MASSAGE FOR OLDER ADULTS 0 UNIT

Class hours: 1 lecture/1 lab
Learn Acupressure, hand, foot and ear reflexology and basic Swedish massage strokes that can ease muscular tension, increase flexibility and joint mobility, as well as enhance cardiovascular and lymph circulation and relieve physical, emotional and mental stress. This course may be repeated.

AED 11.08 STRESS MANAGEMENT FOR OLDER ADULTS 0 UNIT

Class hours: 1 lecture/1 lab
This course will take an experiential approach in exploring the causes, effects, and management techniques of age-related stress. A discussion will precede special group participatory exercises designed to excite the learning of personal themes of stress and coping, and also to acquaint members in the class with one another. Stress management techniques, such as biofeedback, mediation, visualization, and cognitive therapy will also be introduced in lecture, and then practiced in class. Further elaboration may be given through films, and guest lectures in the field.

AED 11.10 PERSONAL CARE FOR OLDER ADULTS 0 UNIT

Class hours: 2.5 lecture
This class is designed for the senior citizen to learn to cope with and overcome barriers, created by age and physical limitations, in caring for their personal needs.

AED 14.03 SENIOR CITIZENS MELODRAMA 0 UNIT

Class hours: 54 lecture
This is a class for older adults who would like to give a little acting a try. Although no experience is necessary, an interest in a new experience is encouraged. The class will explore short theatre sketches for small groups, some old fashioned melodrama, and some original skits. Writers, readers, singers, non-signers are all welcome.

Announcement of Courses

AED 14.06

TAP DANCE FOR OLDER ADULTS

0 UNIT

Class hours: .50 lecture/1.50 lab

Recommendation: Participants must be age 62 or older

Learn the fundamentals of tap dance in this class for older adults. Shuffle-ball-change, waltz clog, time step, digs, chugs, and flaps, are just a few of the steps you'll learn in a new tap routine each week.

AED 14.07

MUSIC APPRECIATION FOR SENIORS

0 UNIT

Class hours: 1 lecture/1 lab

Music program designed to encourage verbal expression, physical movement, and social interaction through song and music listening.

AED 14.08

CREATIVE ARTS & CRAFTS FOR OLDER ADULTS

0 UNIT

Class hours: 2 lab

This course explores a variety of craft projects. Students will make decorative as well as functional items. Projects will depend on the skill level of the group and range from simple paste-up techniques to creation of original art forms, such as sculpture, painted items or original designs.

AED 14.09

ARTS & CRAFTS FOR ADULTS

0 UNIT

Class hours: 2 lab

Students will explore various painting and drawing media, such as watercolors, charcoal acrylics or combinations of media. (Media will depend upon student's skill level.) Expression will be emphasized as will as technique. This course maybe repeated.

AED 14.10

CRAFTS FOR SENIORS

0 UNIT

Class hours: 1 lecture/1 lab

This course is designed to teach basic techniques and skills involved in creative crafts while at the same time enhancing the coordination of sensory, gross and fine motor skills.

AED 14.11

QUILTING FOR SENIORS

0 UNIT

Class hours: 2 lecture/2 lab

A quilting frame for the old time "quilting bee" atmosphere is center stage for class. Senior citizen students can participate in hand quilting, quilting restoration, block/fabric, exchanges and many other activities. This class will allow time for completion of projects. Sewing machine and all necessary items will be brought on an individual basis for those students wanting to sew during class time. This course may be repeated.

AED 16.10

SENIOR CHORUS

0 UNIT

Class hours: 1 lecture/2 lab

This course will examine the fundamentals of vocal techniques for larger groups including proper warm-up techniques, vocal pedagogy, physiology of singing, musicianship, performance techniques and instructor-guided practice. Emphasis will be placed upon correct singing, department, posture, breathing, musical interpretation, correct pitch, rhythmic accuracy, and correct musical style, and correct practices for singing in groups with piano accompaniment. This course may be repeated.

AED 16.11

COMMUNITY BAND FOR OLDER ADULT

0 UNIT

Class hours: 1 lecture/2 lab

Recommendation: Learner must be 55 years of age.

Instruction in ensemble techniques that include rehearsal format, performance preparation, and performance execution. Emphasis is placed upon group participation, interdependence/reliability, social interaction, quality use of leisure time, and personal enrichment and growth through artistic performance in public.

AED 16.12

RADIO AS ART: THE HISTORY AND APPRECIATION OF RADIO

0 UNIT

Class hours: 3 lecture

Excerpts from early radio shows together with lectures and guest speakers help to relive radio's beginnings as the golden age of radio is remembered. Radio has deeply affected American politics, business and entertainment. This course traces the historical development of the medium from its inception to the 1950's.

AED 16.13

VOCAL ARTS WORKSHOP FOR SENIORS

0 UNIT

Class hours: 1.5 lecture/1.5 lab

This course will examine the fundamentals of vocal techniques for solo and small ensemble including proper warm-up techniques, vocal pedagogy, and physiology of singing, musicianship, performance techniques and instructor-guided practice specifically for senior citizen students. This course may be repeated..

AED 16.14

FOUR-PART CHORUS FOR SENIORS

0 UNIT

Class hours: 1.5 lecture/1.5 lab

This course will examine the fundamentals of

senior citizen students, vocal techniques for four-part groups including proper warm-up techniques, vocal pedagogy, and physiology of singing, musicianship, performance techniques and instructor-guided practice, and learning and singing a four-part harmony. This course may be repeated.

AED 22.07

STRETCHING THE DOLLAR

0 UNIT

Class hours: 1.5 lecture

This is a course designed for community persons desirous of basic ideas in personal, individual/family financial matters enabling them more purchasing power. Course presents methods to lower costs yet maintaining personal satisfaction.

AED 22.09

TOPICS OF INTEREST FOR SENIORS

0 UNIT

Class hours: 2 lecture

This course covers topics of interest to senior citizens and their special needs and concerns. The course is designed to assist older adults in developing physical emotional and mental skills needed to function better and enrich their quality of life. This course may be repeated.

AED 22.11

CONTEMPORARY ISSUES FOR ADULTS

0 UNIT

Class hours: 2 lecture

Designed to provide older adults with avenues for communication with city/community officials.

AED 23.03

ADULT NUTRITION

0 UNIT

Class hours: 1 lecture

Recommendation: Student must be a senior citizen, 55 years of age to participate. Discuss nutrition with an emphasis on the healthy body, the heart, cholesterol, and blood pressure. Learn to plan well-balanced meals and work toward maintaining good nutritional habits.

AED 24.04

COOKING FOR SENIORS

0 UNIT

Class hours: .5 lecture/1.5 lab

This course enables senior citizen students to prepare basic meals and desserts through observation of the instructor's procedures. Each class will cover the importance of nutrition in meal preparation and how nutrition is important in maintaining healthy cholesterol levels, blood pressure and an overall healthy body. The senior citizen students will learn to select well-balanced meals, whether the meals are purchased or prepared at home. This course may be repeated.

Announcement of Courses

AED 36.01

OCCUPATIONAL ORIENTATION/ PREPARATION 0 UNIT

Class hours: 4 hours (open entry/open exit)
The Occupational Orientation/Preparation course is designed to awaken an interest in the world of work for students. The goal of the course is to build a broad range of knowledge in basic job competencies, evaluate personal abilities in either part-time or full-time employment. The course will expose students to a wide scope of knowledge in basic job proficiencies. The course will allow students to acquire skills that will allow them to be competitive in the job market.

AUTO 39.01

INTRODUCTION TO PAINTING/ COATING/DECORATING TRADES 0 UNIT

Class hours: 40 lecture
This course is the introductory or beginning course in series of specialty courses for apprentices involved in the painting/coating/decorating industry. Emphasis will be placed on careers and the safety regulations of this specialty industry. Demonstrations will cover basic surface preparation and application of water-based paints and coatings.

AED 39.02

PROFESSIONALISM IN THE PAINTING TRADES/ JOB PLANNING AND SURFACES 0 UNIT

Class hours: 24 lecture/16 lab
Prerequisite: Completion of AED 39.01 or consent of department
This course is the second in a series for apprentices involved in the painting/coating/decorating industry. Specialty topics like professionalism, job planning, ladders and scaffolds, surface identification and preparation, area protection and interior and exterior painting methods will be included. Lecture and demonstration will cover surface preparation and application of materials.

AED 39.03

INTRODUCTION TO PAINTS, COATINGS, SEALANTS, REPAIRS AND FILLERS, AND SURFACE CONDITIONS 0 UNIT

Class hours: 40 lecture
Prerequisite: Completion of AED 39.02, 39.01 or consent of department
This course is the third in a series for apprentices involved in the painting/coating/decorating industry. The specialties of paints and coatings, brushing and rolling paints and coatings, sealants and repair/fillers, and surface materials and conditions will be included.

AED 39.04

INTERIOR AND EXTERIOR PROJECTS AND SAFETY 0 UNIT

Class hours: 40 lecture
Prerequisite: Completion of AED 39.03, 39.02, 39.01 or consent of department
This is fourth course in a series of specialty courses developed for apprentices in the painting and decorating industry. Emphasis will be placed on application techniques for interior and exterior projects. Lectures and demonstrations will be included in the area of flat and enamel coatings for an interior and exterior surfaces. Jobsite cleanup will be addressed.

AED 39.05

JOB PLANNING FOR PAINTING/COATING/ DECORATING TRADES 0 UNIT

Class hours: 32 lecture/8 lab
Prerequisite: Completion of AED 39.04, 39.03, 39.02, 39.01 or consent of department
This is the fifth course in a series of specialty courses developed for apprentices in the painting and decorating industry. Emphasis will be placed on job planning for the painting and decorating industry, including lectures and demonstration in the areas of job safety, materials planning, equipment planning and important factors related to paint failures and remedies. Lecture and demonstrations will cover abrasive blasting, chemical cleaning and stripping, low pressure washing, paint failures, stains, clear finishes and wood finishes.

AED 39.06

CLEAR FINISHES, COATINGS, SPRAY PAINTING, DRYWALL AND SPECIALTY COATINGS 0 UNIT

Class hours: 24.0 Lecture/16.0 lab
Prerequisite: Complete AED 39.05, 39.04, 39.03, 30.02, 39.01 or consent of department
This is the sixth course in a series of specialty courses for apprentices involved in the painting/coating/decorating industry. Emphasis will be placed on clear finishes application and types of coatings. Lectures and demonstrations will include topic areas of airless spray painting, drywall finishing and patching and specialty coating applications.

AED 39.07

WALLCOVERINGS, DECORATIVE FINISHES, HVLP AND BRUSH AND ROLL 0 UNIT

Class hours: 16.0 Lectures/24.0 lab
Prerequisite: Completion of AED 39.06, 39.05, 39.04, 39.03, 39.02, 39.01 or consent of department
This is the seventh course in a series of specialty courses for apprentices involved in the painting/coating/decorating industry.

Emphasis will be placed on general safety professionalism and HVLP spray systems. Lecture and demonstrations will include HVLP spray systems, equipment and application, wall coverings, decorative finishes, and interior brush and roll.

AED 39.08

APPLICATION AND PREPARATION, FAILURES AND REMEDIES AND EXTERIOR BRUSH AND ROLL 0 UNIT

Class hours: 24.0 lecture/16.0 lab
Prerequisite: Completion of AED 39.07, 39.06, 39.05, 39.04, 39.03, 39.02, 39.01 or consent of department
This is the eighth course is a series of specialty courses for apprentices involved in the painting/coating/decorating industry. Emphasis will be placed on brush and roll painting of exterior surfaces and the application/preparation related to paint failures and remedies. This will include lectures and demonstrations in the areas of coatings, brush and roll techniques, and safety.

AED 39.09

PROFESSIONALISM, JOB SUPERVISION, PLANNING AND CONTROL, COLOR TINTING AND WALLCOVERINGS 0 UNIT

Class hours: 20.0 lecture/20.0 lab
Prerequisite: Completion of AED 39.08, 39.07, 39.06, 39.05, 39.04, 39.03, 39.02, 39.01 or consent of department
This is the ninth course in a series of specialty courses for apprentices involved in the painting/coating/decorating industry. Emphasis will be placed on color matching, trade mathematics and measurement. This will include lectures and demonstrations in the areas of trade history and achievements, special applications of mathematics, color matching, job supervision, planning and control, color tinting and wall covering. Discussions will also cover the requirements for coating old work as compared to new work.

AED 39.10

TEXTURING, SPRAYING WITH SPECIAL AND ELECTRONIC DEVICES, WOOD FINISHING 0 UNIT

Class hours: 20.0 lecture/20.0 lab
Prerequisite: Completion of AED 39.09, 39.08, 39.07, 39.06, 39.05, 39.04, 39.03, 39.02, 39.01 or consent of department
This is the tenth course in a series of specialty courses for apprentices involved in the painting/coating/decorating industry. Emphasis will be placed on texturing and wood finishes and spraying with special devices. This will include lectures and demonstrations in the areas of

texture material and application, applying finishes and strains to wood, and spraying with devices.

**AED 39.11
HIGH PERFORMANCE COATINGS,
PRIMERS, URETHANES AND
EPOXIE, ARCHITECTURAL
DRAWINGS AND GRAPHICS,
AND GRAINING APPLICATIONS 0 UNIT**

Class hours: 32.0 lecture/8.0 lab

Prerequisite: Completion of AED 39.10, 39.09, 39.08, 39.07, 39, 06, 39.05, 39.04, 39.03, 39.02, 39.01 or consent of department

This is the eleventh course in a series of specialty courses for apprentices involved in the painting/coating/decorating industry. Emphasis will be placed on high performance coatings, graphics, and graining applications. This will include lectures and demonstrations in the areas of primers, urethanes, epoxies, blueprints, graphics, quality control, and graining.

**AED 39.12
WALLCOVERING
APPLICATION 0 UNIT**

Class hours: 8.0 lecture/32.0 lab

Prerequisite: Completion of AED 39.11, 39.10, 39.09, 39.08, 39.07, 39.06, 39.05, 39.04, 39.03, 39.02, 39.01 or consent of department

This is the twelfth course in a series of specialty courses for apprentices involved in the painting/coating/decorating industry. Emphasis will be placed on coatings and finishes wall covering application. This will include lectures, demonstrations and hand-on training in the areas of preparation, hanging, and correcting defaults.

**AED 40.00
IW MIXED BASE 0 UNIT**

Class hours: 36 lecture/14 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the required eight-hour Introduction to Apprenticeship course.

This course will acquaint the apprentice with specifications that constitute a safe and healthful working environment under OSHA. The apprentice will have an overview of construction blueprints commonly used with emphasis on function and interpretation. Students will be introduced to symbols, terms, and application of blueprints within the construction industry. This course offers a brief review of some math skills and the opportunity to apply these skills to solve typical problems that are apt to arise in the construction trades.

**AED 40.01
IRONWORKERS –
FIRST AID MULTI MEDIA 0 UNIT**

Class hours: Complete course taught in one eight (8) hour session or two (2) four (4) hour sessions

Prerequisite: Must be registered apprentices with the California State Division of Apprenticeship Standards.

A non-professional course of Standard First Aid designed to teach knowledge and skills that are needed for the emergency care of the injured and ill until medical care can be obtained, and to create an active interest in the prevention of accidents.

**AED 40.05
IW – WELDING III 0 UNIT**

Class hours: 18 lecture/32 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards or journeyman ironworker as defined in the California Apprenticeship Council.

The apprentice will be trained in metal-arc and gas metal-arc welding with emphasis on skill development in both processes of ferrous and nonferrous metals in the flat, vertical and overhead positions, and for all types of joints. This course may be repeated as necessary.

**AED 40.06
IW TRADE SCIENCE 0 UNIT**

Class hours: 54 lecture

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards

This course introduces the ironworkers to the labor movement and apprenticeship training. It acquaints the ironworkers with the privileges and obligations he/she accepts as members of this trade.

**AED 40.09
GENERAL RIGGING –
REINFORCING 0 UNIT**

Class hours: 30 lecture/20 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicant must attend the eight hour Introduction to Apprenticeship class.

This course introduces the proper application of fiber line, steel cable, and chain in various tackle and lever combination used in raising, transporting, and storing heavy loads. It provides instruction and manipulative experience with the various types of rigging equipment and procedures used in the ironworkers' trade.

**AED 40.10
WELDNG I – REINFORCING 0 UNIT**

Class hours: 24 lecture/26 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicant must attend an eight-hour Introduction to Apprenticeship class. This course introduces basic understanding of the structure of ferrous metals and their reactions to heat. This course also provides knowledge of the equipment and materials employed in the use of shielded metal-arc, gas shielded-arc, and oxy-acetylene welding.

**AED 40.11
WELDING II – REINFORCING 0 UNIT**

Class hours: 40 lecture/10 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicant must attend an eight-hour Introduction to Apprenticeship class

This course will introduce the apprentice to a basic understanding of the structured of ferrous metals and their reactions to heat. It provides knowledge and basic skills in the equipment and materials employed in the use of shielded metal-arc, gas shielded-arc, and oxy-acetylene welding.

**AED 40.12
REINFORCING IRON I 0 UNIT**

Class hours: 38 lecture/12 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the required eight-hour Introduction to Apprenticeship class

This course will provide the ironworker with the ability to interpret the standard codes, code classifications, plans, schedules, charts and specifications in common use by the ironworker. The apprentice will become familiar with the contraction techniques used in reinforcing concrete members with steel. They will become familiar with the use of bar supports, placement of reinforcing iron in the structural members of buildings and in structures other than buildings, general principles of bar splicing and welding, post tensioning and prestressing.

**AED 40.13
REINFORCING IRON "A" 0 UNIT**

Class hours: 45 lecture

This course will provide the ironworkers reinforcing apprentice with the ability to interpret the standard codes, code classifications, plans, schedules, charts and specifications in common use by the ironworker. The apprentice will become familiar with the construction techniques used in reinforcing concrete members with

steel. He will become familiar with the uses of bar supports, placement of reinforcing iron in the structural members of building and in structures other than buildings, general principles of bar splicing and welding, post tensioning and prestressing.

**AED 40.14
REINFORCING IRON "B" 0 UNIT**

Class hours: 45 lecture

This course will train students in the installation of multi-strand post-tension bar systems, including stressing, grouting, and inspection. Students will become familiar with related topics to post-tension bar systems, which share many of the same procedures and characteristics. This course will cover various types of structures, including bridges, buildings, and storage tanks.

**AED 40.15
POST – TENSION I 0 UNIT**

Class hours: 38 lecture/12 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicant must attend the required eight-hour Introduction to Apprenticeship class

This course will train students in the Installation of multi-strand post-tension bar system, including stressing, grouting, and inspection. Students will become familiar with related topics to post-tension bar systems, which share many of the same procedures and characteristics. This course will cover various types of structures, including bridges, buildings, and storage tanks.

**AED 40.15
REINFORCING IRON II 0 UNIT**

Class hours: 38 lecture/12 lab

This course will provide the ironworkers reinforcing apprentice with the ability to interpret the standard codes, code classifications, plans, schedules, charts and specifications in common use by the ironworker. The apprentice will become familiar with the construction techniques used in reinforcing concrete members with steel. He will become familiar with the uses of bar supports, placement of reinforcing iron in the structural members of building and in structures other than buildings, general principles of bar splicing and welding, post tensioning and prestressing.

**AED 40.17
REINFORCING IRON D 0 UNIT**

Class hours: 45 lecture

This course will provide the ironworkers reinforcing apprentice with the ability to interpret the standard codes, code classifications, plans, schedules, charts and specifications in common use by the ironworker. The apprentice will become familiar with the construction techniques used in reinforcing concrete members with steel. He will become familiar with the uses of bar supports, placement of reinforcing iron in the structural members of building and in structures other than buildings, general principles of bar splicing and welding, post tensioning and prestressing.

**AED 40.18
GENERAL RIGGING –
STRUCTURAL 0 UNIT**

Class hours: 30 lecture/20 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicant must attend the eight-hour Introduction to Apprenticeship class

This course introduces the proper application of fiber line, steel cable, and chain in various tackle and lever combinations used in raising, transporting, and storing heavy loads. It provides instruction and manipulative experience with the various types of rigging equipment and procedures used in the ironworkers' trade.

**AED 40.19
WELDING I – STRUCTURAL 0 UNIT**

Class hours: 10 Lecture/40 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course introduces a basic understanding of the structure of ferrous metals and their reactions to heat. It also provides knowledge of the equipment and materials employed in the use of metal-shielded arc, gas-shielded arc, and oxy-acetylene welding. The students will cover OSHA standards.

**AED 40.20
WELDING II – STRUCTURAL 0 UNIT**

Class hours: 10 Lecture/40 lab

Prerequisite: Must be registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course continues to help the apprentice understand the structure of ferrous metals and their reactions to heat. This course provides additional knowledge of equipment and materials employed in the use of shielded metal-arc, gas shielded-arc, and oxy-acetylene welding.

**AED 40.21
STRUCTURAL I 0 UNIT**

Class hours: 36 Lecture/14 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course promotes understanding of both theory and practice built around the study of blueprint reading, structural erection procedures, and proper construction of various steel structures.

**AED 40.22
STRUCTURAL III 0 UNIT**

Class hours: 36 lecture/14 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course continues to develop understanding of both theory and practice built around the study of blueprint reading and the structural erection procedures and proper construction of various steel structures.

**AED 40.26
METAL BUILDING ERECTION I 0 UNIT**

Class hours: 36 Lecture/14 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This class provides the apprentice with hands-on experience in erecting a pre-engineered metal building. The course will provide the apprentice with necessary time to perform the tests needed in interpreting charts and tables, blueprint, assembly of prefabricated buildings.

**AED 40.27
IWS – WELDING FOR SHOP
IRONWORKERS I 0 UNIT**

Class hours: 18 lecture/36 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards.

This is a first-semester course for the Ironworker Shop person, with emphasis on the use of both AC and DC welding currents, as well as the use of the major classifications of electrodes. Welding is done in the flat, vertical, and horizontal positions. Related technical subjects cover arc, resistance welding, testing, heating-treatment, joint design, and nomenclature.

Announcement of Courses

AED 40.28

IWS-WELDING FOR SHOP IRONWORKERS II

0 UNIT

Class hours: 18 lecture/36 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards.

This is a second-semester course for the Ironworker Shop person in arc welding designed to prepare the Apprentice to pass a certification test in arc welding. Emphasis is on welding in the fixed position and the welding of alloy steels.

AED 40.29

IWS-EMPLOYER/EMPLOYEE RELATIONS, SAFETY AND FIRST AID

0 UNIT

Class hours: 54 lecture

This course is designed to meet the needs of State Indentured Apprentices employed full time in the Steel Fabricating Industry. Topics covered include: Introduction to Apprenticeship, Labor-Management Relations, Collective Bargaining agreements, Safety and First Aid.

AED 40.30

IWS-FUNDAMENTALS OF WELDING FOR STEEL FABRICATING

0 UNIT

Class hours: 54 lecture

This course is designed to meet the needs of State Indentured Apprentices employed full time in the Steel Fabricating Industry. Topics covered include: Welding Machines and Accessories, Arc Welding Procedures, Cutting and Welding.

AED 40.34

IWS-STRUCTURAL STEEL LAYOUT

0 UNIT

Class hours: 18 lecture/36 lab

This course will provide the Apprentice knowledge of layout, tools, methods, dimensioning, and techniques used in fabricating structural steel.

AED 40.35

IWS-STRUCTURAL STEEL FITTING

0 UNIT

Class hours: 18 lecture/36 lab

This course will provide the Apprentice with the operations of plate work and development, including various structural steel assemblies.

AED 40.36

IWS-ADVANCED BLUEPRINT READING

0 UNIT

Class hours: 18 lecture/36 lab

This course will provide the Apprentice with knowledge of working sectional, exploded, and erection drawings.

AED 40.37

IWS-JOURNEYMAN PROJECTING

0 UNIT

Class hours: 18 lecture/36 lab

This course will provide the Apprentice with knowledge of working sectional, exploded, and erection drawings.

AED 40.50

IW MIXED BASE – REINFORCING

0 UNIT

Class hours: 38 Lecture/12 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course will acquaint the apprentice with specifications that constitute a safe and healthful working environment under OSHA. It provides an introduction to the rights and obligations that this act imposes. The apprentice will have an overview of construction blueprints commonly used with emphasis on its function and interpretation. This course offers a brief review of the basic math skill and the opportunity to apply these skills in solving typical problems that are apt to arise in the construction trades.

AED 40.51

IW-MIXED BASE-REINFORCING

0 UNIT

Class hours: 13.5 lecture/9 lab

This course provides the Apprentice with experience and knowledge of pre-engineering metal buildings. The course emphasizes sheet metal sections, fasteners, footings, and installation.

AED 40.52

IW – ORIENTATION II

0 UNIT

Class hours: 27 Lecture/27 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course provides an overview of the skill and knowledge needed to become a safe and productive working apprentice. It will provide a hands-on approach to general, rigging, structural steel, welding and burning, and reinforcing iron.

AED 40.53

DETAILING FOR REINFORCING IRON

0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course will provide insight into the job performed by the detailer of reinforcing iron. Content includes reading and interpreting the communication instruments that are the products of the detailer's skills such as placing drawings, the bar lists, the bar schedules. These are the instruments that guide the fabrication of reinforcing bars in the shop and their proper placement in the field. This class shows how these documents are assembled and from what sources information is derived. Mechanical drawings, math computation skills, and blueprints are covered.

AED 40.54

DETAILING II – REINFORCING

0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course will provide knowledge, procedures and practices employed by the detailer of reinforcing iron in the preparation of placing drawings and bar list. In addition, the class places particular emphasis on analysis and interpretation of placing patterns and practices in the erection of a wide variety of reinforced concrete structures.

AED 40.55

IW – FOREMAN – SCAFFOLD ERECTOR DISMANTLER – FORKLIFT

0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course is designed to heighten the construction worker's awareness regarding on-the-job hazards. The student will receive training in accordance with OSHA standards and the many aspects of safety, compliance, scheduling, jurisdiction, and the labor law. The student will receive instruction regarding the duties of the ironworker foreman, general foreman, and superintendent's and forklift operation.

AED 40.56

IW IRONWORKERS HISTORY REINFORCING

0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course instructs the apprenticeship student about the history of the Ironworker union from its birth in 1896 to present.

AED 40.57

IW LEAD HAZARD – REINFORCING

0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

The purpose of this course is to train ironworkers who are exposed to lead in the repair and renovation of bridges or steel structures, or in the demolition of buildings and other structures. Construction work on bridges, steel structures, and demolition, where lead-containing materials are present, is particularly hazardous. Exposures to lead in this kind of construction work is quite hazardous, with exposures often exceeding the OSHA exposure limits by more than one hundred times that which is allowable. This course will stress the health effects caused by lead exposure, OSHA regulations in this regard, sampling methods, legal rights of workers and the use of proper protective equipment and work methods.

AED 40.60

IW ARCHITECTURAL AND ORNAMENTAL I

0 UNIT

Class hours: 36 Lecture/14 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course is designed primarily for ironworker apprentices and will provide a detailed understanding of procedures and practices employed by the ironworker in architectural and ornamental ironworking. Special emphasis is placed on the tools, anchors, and fasteners in constructing curtain walls and window walls.

AED 40.61

IW PRECAST CONCRETE – STRUCTURAL

0 UNIT

Class hours: 30 Lecture/20 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course provides knowledge, coordination task elements and skill needed in the staging and economical erection of a precast concrete building, placing particular emphasis on the rigging, handling and installing of the precast concrete members themselves.

AED 40.62

IRONWORKER HISTORY STRUCTURAL

0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course deals with the history of the Ironworkers Union from its birth in 1896 up to the present time.

AED 40.63

IW LEAD HAZARD – STRUCTURAL

0 UNIT

Class hours: 32 Lecture

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course will teach ironworkers to recognize and reduce hazards related to lead when repairing and renovation of bridges or steel structures, or in the demolition of buildings and other structures. It will stress the health effects caused by lead exposure, OSHA regulations in this regard, sampling methods, legal rights of workers and the use of proper protective equipment and work methods.

AED 40.64

IW OSHA

0 UNIT

Class hours: 14 Lecture

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course is designed to heighten the construction workers' awareness regarding on-the-job hazards. Upon completion, workers will be able to modify their current work behavior and/or learn new ones thus effectively reducing the frequency and severity of incidents and injuries.

AED 41.03

IW – REINFORCING II

0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course provides the ironworker student with training in reinforcing concrete, including manufacturing, safety, reinforcing forms, bridge, and highway construction, bending, tagging, marking, and fabricating. This course delineates as precisely as possible the industry

practices for reinforcing steel and provides a convenient reference source for the architect/engineer, the inspector, the detailer, fabricator, and ironworker.

AED 41.04

IW ARCHITECTURAL II

0 UNIT

Class hours: 30 Lecture/20 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course teaches the ironworker on how to erect storefronts and entrance ways and how to install the various types for doors commonly found in today's modern structures. The student will be introduced to the various types of materials used and the installation procedures recommended. This course will also cover installing revolving doors, swinging doors and closers, sliding fronts and doors, hollow metal doors, and balanced doors. The student will learn how to erect a wide variety of doors, stairs, handrails, and ladders, toilet partitions, vanity supports, relief angles, and flagpoles and how to install chain link fences.

AED 41.05

IW – ARCHITECTURAL II

0 UNIT

Class hours: 30 Lecture/20 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course teaches the ironworker the many tasks involved in the construction of window wall and curtain wall systems. The student will be introduced to the many techniques used to provide a functioning, yet aesthetically pleasing structure. The students will learn about new construction techniques regarding designs of exterior facing structure enclosure and protection. This class will provide information on building sealants and the effects of weathering.

AED 41.06

IW – STRUCTURAL II

0 UNIT

Class hours: 30 Lecture/20 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course provides the student with training in structural steel erection including history, safety, planning and scheduling, handling materials, and erecting structural steel members.

Announcement of Courses

AED 41.07

POST – TENSION II 0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicants must attend the eight-hour Introduction to Apprenticeship class

This course is designed to provide the ironworker student with training in post-tensioned reinforcing, including single-strand unbonded systems and bar post-tensioning. This course is structured to prepare the student for the Post-Tensioning Installation (PTI) certification, which will enable workmen to install single-strand unbonded tendons on superstructures. Students will learn the principle and theories of post-tensioning and identify the components of single-strand unbonded tendon system and bar post-tensioning systems. Students also learn the use of tools, equipment, and procedures to unload, handle, layout, install, stress, grout, and finish each type of post-tensioning system.

AED 41.08

POST – TENSION III 0 UNIT

Class hours: 40 Lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicant must attend the required eight-hour Introduction to Apprenticeship class.

This course provides the ironworker student with training in post-tensioned reinforcing, including single-strand unbonded systems and bar post-tensioning. This course is structured to prepare the student for the Post-Tensioning Installation (PTI) certification, which will enable workmen to install single-strand unbonded tendons on superstructures. Students will learn the proper procedures for detensioning and perform lift-offs on post-tensioning systems. Students will learn the use of tools, equipment, and procedures to unload, handle, layout, install, stress, grout, and finish each type of post-tensioning system.

AED 41.09

WELDING III – REINFORCING 0 UNIT

Class hours: 40 lecture/10 lab

Prerequisite: Must be a registered apprentice with the California State Division of Apprenticeship Standards. Applicant must attend the required eight-hour Introduction to Apprenticeship class.

This course will introduce the apprentice to shop safety in welding and burning. It provides a basic understanding of the structure of ferrous metals and their reactions to heat. It provides knowledge of the equipment and materials employed in the use of oxy-acetylene burning and welding. Students will learn the

symbols used in welding. This course will prepare the student for the Los Angeles City written welding exam.

AED 42.00

ENGLISH AS A SECOND LANGUAGE 0 UNIT

Class hours: 3 lecture

Prerequisite: None

This course is designed to prepare the limited English-speaking person for college ESL study. It bridges the gap between life skills English and beginning college ESL courses. It is multi-skills oriented, aiming at speaking and listening, reading and writing, and grammar skills.

AED 42.01

ENGLISH AS A SECOND LANGUAGE – A 0 UNIT

Class hours: 6 lecture

Open entry/Open exit

This course is designed to prepare the limited English-speaking adult for college ESL study. It bridges the gap between life skills English and beginning college ESL courses. It is multi-skills oriented, aiming at speaking and listening, reading and writing, and grammar skills.

AED 42.02

MEDIATION IN BASIC SKILLS 0 UNIT

Class hours: 18 lecture/36 lab

This course is designed for students who require mediation between verified learning disabilities and basic skill subjects including Reading, Mathematics, and English Composition. Specific assessment procedures will be utilized to isolate basic skill/learning process deficiencies which will then be addressed by individualized instruction.

AED 42.03

SURVIVAL ENGLISH AS A SECOND LANGUAGE 0 UNIT

Class hours: 6 lecture

This first course in a series is designed as a survival-level English language course for those students with no English language skills. All language learning skills will be utilized: reading, writing, listening, and speaking; the main focus will be on vocabulary building and listening as initial steps for building English language acquisition.

AED 42.04

BASIC ADULT ENGLISH 0 UNIT

Class hours: 5 lecture

This course is designed to prepare the adult student for college English. It is aimed at improving reading, writing, and grammar skills.

AED 42.07

INDEPENDENT MEDIATION LAB 0 UNIT

Class hours: 144 lab

This course is designed to be an adjunct to Mediation in Basic Skills (M.B.S.). Focus will be upon implementation of activities determined by the student's individual education plan developed for M.B.S. Initial emphasis may be placed on a variety of other activities designed to mediate between a student's disability and matriculation at Cerritos.

AED 42.09

BASIC SKILLS II 0 UNIT

Class hours: 54 lecture

This course is designed for limited English Language Learners who require mediation in basic skill subjects including Reading, Mathematics, and English composition. Specific assessment procedures will be utilized to isolate basic skill/learning process deficiencies, which will then be addressed by individual instruction, utilizing an instructional aide.

AED 42.10

SPANISH GED TEST PREPARATION – A 0 UNIT

Class hours: 6 lecture

Recommendation: Completion of the sixth grade or equivalent

This course will prepare students for the writing and social studies components of the GED examination. This course is designed to assist students limited in English and will provide instruction and materials in Spanish. Students will be tested on knowledge and skills that they have acquired for life experiences, television, radio, books and newspapers, consumer products, and advertising. Students will be prepared to take the battery of GED tests.

AED 42.11

SPANISH GED TEST PREPARATION – B 0 UNIT

Class hours: 6 lecture

Recommendation: Completion of the sixth grade or equivalent

This course will prepare students for the science, literature, and mathematics components of the GED examination. This course is designed to assist students limited in English and will provide instruction and materials in Spanish. Students will be tested on knowledge and skills that they have acquired from life experiences, television, radio, books and newspapers, consumer products, and advertising. Students will be prepared to take a battery of GED test.

Announcement of Courses

AED 42.12

GED PREPARATION – A

0 UNIT

Class hours: 6 lecture
Open entry/Open exit
Recommendation: 6 years of formal education

This course will prepare students for the writing and social studies components of the GED examination. The General Education Department (GED) course consists of five examinations in the areas of writing skills, social studies, literature the arts, and mathematics. Students will be tested on knowledge and skills that they have acquired from life experiences, television, radio, books and newspapers, consumer products, and advertising. Students will be prepared to take the battery of GED test.

AED 42.13

GED TEST PREPARATION – B

0 UNIT

Class hours: 6 lecture
Recommendation: Completion of the sixth grade of equivalent

This course will prepare students for the science, literature, and mathematics components of the GED examination. Students will be tested on knowledge and skills that they have acquired from life experience, television, radio, books and newspapers, consumer products, and advertising. Students will be prepared to take the battery of GED tests.

AED 43.03

BUILT – UP ROOF ASSEMBLIES

0 UNIT

Class hours: 3 lecture/1 lab
Open entry/Open exit
Prerequisite: Registered apprentice with the California State Division of Apprenticeship Standards, through the Independent Roofing Contractors of California, Inc., training program. Participants must be 18 years or older.

This is a course in the preparation and application of built-up roofing assemblies and their related components.

AED 43.04

COLD-APPLIED ROOFING SYSTEMS: WATERPROOFING AND DAMPPROOFING

0 UNIT

Class hours: 3 lecture/1 lab
Prerequisite: Registered apprentice with the California State Division of Apprenticeship Standards, through the Independent Roofing Contractors of California, Inc., training program. Participants must be 18 years or older.

This course is on preparation and application of cold-applied roofing systems and their related components.

AED 43.05

ROOFING SHINGLES, TYPES AND APPLICATION

0 UNIT

Class hours: 3 lecture/1 lab
Prerequisite: Registered apprentice with the California State Division of Apprenticeship Standards, through the Independent Roofing Contractors of California, Inc., training program. Participants must be 18 years or older.

This course covers the application and maintenance of various roofing shingles systems.

AED 43.06

RIGID ROOFING

0 UNIT

Class hours: 3 lecture/1 lab
Prerequisite: Registered apprentice with the California State Division of Apprenticeship Standards, through the Independent Roofing Contractors of California, Inc., training program. Participants must be 18 years or older.

The focus of this course is on the preparation and application of rigid roof materials, including mission tiles, roman tiles, concrete interlocking tile, slate and other rigid materials.

AED 43.07

MAINTENANCE, REPAIRS AND REROOFING

0 UNIT

Class hours: 3 lecture/1 lab
Prerequisite: Registered apprentice with the California State Division of Apprenticeship Standards, through the Independent Roofing Contractors of California, Inc., training program. Participants must be 18 years or older.

This course covers the maintenance, repair and re-roofing of built-up, hot and cold applied, shingle and rigid roofs.

AED 43.08

PLANS AND SPECIFICATION

0 UNIT

Class hours: 3 lecture/1 lab
Open entry/Open exit
Prerequisite: Registered apprentice with the California State Division of Apprenticeship Standards, through the Independent Roofing Contractors of California, Inc., training program. Participants must be 18 years or older.

This course is on the development and application of plans, specifications, regulations, and cost estimating for the roofing and waterproofing industry.

AED 44.00

MASONRY I

0 UNIT

Class hours: 18 lecture/54 lab
This course is an overview of the masonry trade, which includes the history and origin of

masonry construction, tools and equipment, safety, fundamentals of mortar preparation and application, and the use of various masonry products.

AED 44.01

MASONRY II

0 UNIT

Class hours: 18 lecture/54 lab
This course is a continuation in the study of the fundamentals of masonry construction.

AED 44.02

MASONRY III

0 UNIT

Class hours: 18 lecture/54 lab
This course provides bricklaying students with material handling and storage procedures for advanced laying techniques, joints, corners and corner poles. Instruction is also provided in the handling and storage of brick and block, brick and Concrete Masonry Unit, control and expansion, joints and masonry.

AED 44.03

MASONRY IV

0 UNIT

Class hours: 18 lecture/54 lab
This course provides students with procedures for installing flashing and counter flashing and safety precautions when doing elevated masonry. Students will learn to read commercial and residential drawings, work in adverse weather conditions and apply masonry techniques to insulation, window and door openings piers, columns and pilasters.

AED 44.04

MASONRY V

0 UNIT

Class hours: 18 lecture/54 lab
This 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.

AED 44.05

MASONRY VI

0 UNIT

Class hours: 18 lecture/54 lab
This course provides masonry students with basic glass block, refractory masonry, structural glazed tile, repair and restoration, panel construction, brick paving, and welding.

AED 48.01

VOCATIONAL ENGLISH

0 UNIT

Class hours: 18 lecture/54 lab
Basic knowledge of fundamental grammar necessary for practical usage; spelling, punctuation, and minimum skill in writing and speaking necessary to communicate effectively and appropriately.

Announcement of Courses

AED 48.02

SENIOR BOOKS COME ALIVE 0 UNITS

Class hours: 27 lecture

This class will review and discuss the Great Modern classics, biographies of achievers, best sellers, and those never-to-be-forgotten books on the Westward Movement.

AED 48.03

CREATIVE WRITING FOR SENIORS 0 UNIT

Class hours: 2 lecture

This course is designed to introduce the older adult to techniques for creative writing in the areas of drama, poetry, fiction, and non-fiction. Techniques for a complete autobiography will be taught. This course may be repeated.

AED 48.04

COMMUNICATION SKILLS (OLDER ADULTS) 0 UNIT

Class hours: 1.5 lab

This course is designed to increase receptive and expressive language skills in the senior citizen, as well as improve non-verbal body language. The student will develop a higher level of self-confidence through positive interaction with other. This course may be repeated.

AED 49.01

VOCATIONAL MATH 0 UNIT

Class hours: 2 lecture/2 lab

This course is a study or review of the basic mathematical concepts and skills of whole numbers as they apply to monetary denominations: addition, subtraction, multiplication, and division. In addition, the course includes the meaning and use of fractions, working with decimals, using percents, solving problems with formulas, and figuring ratio, proportion and simple equations.

AED 49.02

VOCATIONAL ENGLISH AS A SECOND LANGUAGE 0 UNIT

Class hours: 4.5 hours

This course is designed as a survey of work-related communication including nomenclature for the student with limited English language skills. Students will learn to recognize, produce and understand technical vocabulary utilizing language learning skills: speaking, listening, reading, and writing. Students will learn about the vocation and nomenclature, while increasing their English language acquisition by learning to ask and respond to questions related to the vocation and practice conversation on a variety of work related subjects. Students will expand their vocational knowl-

edge via class discussions, reading print material, attending field trips, and by sharing their vocational experience with other students. This course is intended as preparation for future credit courses, vocational training, or increased vocational language acquisition for the work situation.

AED 49.03

VOCATIONAL ESL – B 0 UNIT

Class hours: 3 lecture

This course is designed to provide English Learners with continued exposure to essential Vocational English Skills. Students will be able to understand, utilize, and produce vocabulary, phrases, and paragraphs in the vocational context. Emphasis will be placed on the steps of the California Writing Process. Technology will also be a key element of the curriculum. VESL-B students will be required to implement computers in their coursework. Safety issues will be addressed as they pertain to the workplace.

AED 60.01

CITIZENSHIP 0 UNIT

Class hours: 4 lecture

Recommendation: Eligibility for naturalization

This course prepares students to take the written exam for U.S. citizenship. In addition, it assists them with completing the application for U.S. citizenship and in preparing for the oral interviews with the INS.

AED 80.01

INTRODUCTION TO CONSTRUCTION TRADE 0 UNIT

Class hours: 54 lecture/18 lab

This course is the introductory or beginning course for “first-period” apprentices in a series of specialty courses for electrical apprentices involved in the construction industry. Emphasis will be placed on safety and the overall aspects of this specialty industry.

AED 80.02

INTRODUCTION TO ELECTRICAL BLUEPRINTS 0 UNIT

Class hours: 72 lecture

Recommendation: AED 80.01

This is the second course in a series of specialty courses for electrical apprentices involved in the construction trades. Emphasis will be placed on electrical prints, drawings and symbols. Also types of information they can find on schematics, one-lines and wiring diagrams will be covered.

AED 80.03

ELECTRIC HYDRAULIC AND MECHANICAL THEORY 0 UNIT

Class hours: 72 lecture

Recommendation: AED 80.02

This course is the third in a series of specialty courses for electrical apprentices involved in the construction industry concerning the electrical area. Emphasis will be placed on alternating current, motors, grounding, conduit bending, boxes and fittings, conductor installations, and cable tray.

AED 80.04

ELECTRICAL INSTALLATIONS 0 UNIT

Class hours: 72 lecture

Recommendation: AED 80.03

This is the fourth course in a series of specialty courses for electrical apprentices involved in the construction industry. Emphasis will be placed on conductor termination's and splices, installation of electric services, circuit breakers and fuses, contractors and relays, and electric lighting.

AED 80.05

ELECTRICAL CALCULATIONS AND INSTALLATIONS 0 UNIT

Class hours: 72 lecture

Recommendation: AED 80.04

This is the fifth course in a series of specialty courses for electrical apprentices involved in the construction industry. Emphasis will be on load calculations (branch circuits), conductor selection and calculations, over current protection, raceways, box and fitting fill requirements, wiring devices, distribution equipment, and distribution system transformers.

AED 80.06

ELECTRICAL LIGHTING MOTORS AND HVAC SYSTEMS 0 UNIT

Class hours: 72 lecture

Recommendation: AED 80.05

This course is sixth in a series of specialty courses for apprentices involved in the construction industry. Emphasis will be on basic lighting, motor calculations, motor maintenance, motor controls, electricity in HVAC system, and hazardous locations.

AED 80.07

INDUSTRIAL LIGHTING LOAD AND THEORY 0 UNIT

Class hours: 72 lecture

Recommendation: AED 80.06

Number seven in a series of specialty courses for electrical apprentices involved in the construction industry. The emphasis is placed on load calculation-feeder and services,

Announcement of Courses

commercial/industrial lighting, specialty lighting, stand-by and emergency systems, basic electronic theory, fire alarm system.

AED 80.08

ADVANCED THEORY AND APPLICATIONS

0 UNIT

Class hours: 72 lecture

Recommendation: AED 80.07

This is course number eight, the last in a series of series of specialty courses for electrical apprentices involved in the construction industry. The emphasis is placed on specialty transformers, advanced controls, HVAC controls, welding machines, heat tracing and freeze protection, motor maintenance, part 2, and high voltage terminators/splices.

AED 80.09

CPR AND FIRST AID

0 UNIT

Class hours: 4.5 lecture/4.5 lab

Prerequisite: Registered apprentice with the California State Division of Apprenticeship Standards, through the Associated Builders and Contractors, Southern California Chapter's training program.

This is a course of Cardiopulmonary Resuscitation (CPR) and Standard First Aid that is designed to teach the knowledge and skills that are needed for the emergency care of the injured and ill until medical care can be obtained and to create an active interest in the prevention of accidents.

AED 80.10

SHEET METAL I

0 UNIT

Class hours: 3 lecture/1 lab

Recommendation: Limitations on enrollment. Acceptance into the ABC – Sheet Metal Apprenticeship program

This course discusses the scope and nature of the sheet metal trade including systems and methods for gauging sheet metal. It describes the types and uses of hand and layout tools as well as cutting, bending and forming machines used in the trade. Types of fasteners and common screw and bolt configurations are described. This course explains the purpose of louvers, dampers, and access doors and how they are constructed. The proper installation of duct insulating materials is covered. Problems involved with measurement lines, area, volume, weight, and geometric figures are introduced. Also provided is an explanation for the uses of parallel line development and step-by-step procedures for selected fittings.

AED 80.11

SHEET METAL II

0 UNIT

Class hours: 3 lecture/1 lab

This course covers problems involving the use of protractors, vernier calipers and

micrometers. Introduces the various types of pipe and fittings and discusses and describes the principles, uses and type of fitting for radial line development. It covers factors, calculations and precision necessary for proper bend allowance in sheet metal and application of materials and tools for soldering sheet metal parts and sealing seams. This course introduces techniques for reading blueprint specifications, and shop drawings. Sheet Metal and contracting manuals are exposed. The steps required for sizing ductruns are identified. This course describes air distribution systems and their components, air flow measurement, duct-work installation principles, and the use psychometric charts. Information and learning activities for calculating downspout and gutter size are presented. Outlines of the principles of weather sealing and procedures for the fabrication and installation of selected flashing components are discussed.

AED 80.12

SHEET METAL III

0 UNIT

Class hours: 3 lecture/1 lab

Prerequisite: AED 80.11

This course covers the principles of air flow and components as applied to Heating, Ventilation, and Air Conditioning (HVAC) air distribution systems. It covers basic refrigeration cycles and affiliated components and controls needed in various refrigeration components. Topics include, material characteristics, tools and procedures for laying out the fabricating fiberglass ductrun fittings and self-paced learning of layout and fabrication problems requiring the triangulation method is included. This course provides an overview of the basic welding processes and introduces the problems and techniques of field measuring for layout and installation of duct sections and offsets.

AED 80.13

SHEET METAL IV

0 UNIT

Class hours: 3 lecture/1 lab

Prerequisite: AED 80.12

This course covers recommended practices necessary to increase shop production and eliminate wasted time and materials. It provides installation methods for grilles, diffusers, and registers. Parallel and radial line development and triangulation methods of fabrication are reviewed. The purpose of louvers, dampers, and access doors and their construction are explained. This course covers specifications and principles for the layout and fabrication of hood and ventilation fittings, and covers industrial ventilation and conveying of particulates.

AED 80.14

HVAC I

0 UNIT

Class hours: 3 lecture/1 lab

Recommendation: Acceptance to HVAC

Apprenticeship Program

This course introduces the Heating, Ventilating, and Air Conditioning (HVAC) trainee to the basic concepts and environmental concerns related to heating, ventilating, and air conditioning. It also describes the apprentice program and the career opportunities available in the HVAC trade.

AED 80.15

HVAC II

0 UNITS

Class hours: 3 lecture/1 lab

Prerequisite: AED 80.14

This course instructs trainees in the properties of air distribution systems. Students will become familiar with the operation, layouts, types of equipment, and installation practices used for air distribution systems installed in the different regions of the country.

AED 80.16

HVAC III

0 UNIT

Class hours: 3 lecture/1 lab

Prerequisite: AED 80.16

This course instructs trainees in preventive maintenance of HVAC system. Students will become familiar with the different types of troubleshooting and servicing of heating systems.

AED 80.17

HVAC IV

0 UNIT

Class hours: 3 lecture/1 lab

Prerequisite: AED 80.16

This course discusses techniques for reading and using blueprints, specification and shop drawings. It introduces indoor air quality and its effect on the health and comfort of building occupants. Identifies equipment and methods used. Students learn about various heat recovery and reclaim devices using their computers and microprocessor controls. Water problems encountered in heating and cooling systems are identified, and various water treatment methods and equipment is discussed. Factors that affect the heating and cooling loads of a building are included in this process. Types of duct systems as well as their selection, sizing and installation are discussed. Ice-making machines are also covered.

AED 80.18

ELECTRONIC SYSTEMS TECHNICIAN I

0 UNIT

Class hours: 3 lecture/1 lab

Recommendation: Acceptance into EST

Apprenticeship Program

This course introduces the Electronic Systems

Announcement of Courses

Technician trainee to construction materials and methods, pathways, spaces and electrical theory. It also covers hand bending of conduit, electrical safety and low-voltage cabling.

AED 80.19

ELECTRONIC SYSTEMS TECHNICIAN II

0 UNIT

Class hours: 3 lecture/1 lab

Prerequisite: AED 80.18

This course provides the Electronic Systems Technician trainee with an overview of related mathematics, electrical theory, electrical testing equipment, power quality and grounding, electrical blueprints, voice and data systems, switching devices and timers, and terminating conductors. Introduction to codes and standards and computer applications will be covered.

AED 80.20

ELECTRONIC SYSTEM TECH III

0 UNIT

Class hours: 3 lecture/1 lab

Prerequisite: AED 80.20

This course provides the Electronic Systems Technician trainee with an overview of cable selection, busses and networking, fiber optics, video systems, wireless communication, site survey, job planning, low-voltage maintenance and repair, supervision, fire alarm and security systems.

AED 80.21

INTRODUCTION TO ELECTRICAL CRAFT TRAINING

0 UNIT

Class hours: 45.0 lecture/45.0 lab

This course is the introductory or beginning course for "first period" apprentices in a series of specialty courses for electrical craft training involved in the construction industry. Emphasis will be placed on safety and the overall aspects of this specialty industry. Students will have an orientation covering craft training and personal development.

AED 80.22

ELECTRICAL CRAFT TRAINING – LEVEL I

0 UNIT

Class hours: 45.0 lecture/28.0 lab

Students will be introduced to methods of hand bending conduit and various methods used to install conduit as well as how to cut, ream, and thread conduit. Students will learn to use correct applications of non-threaded, threaded fasteners and anchors. Electrical theory, including a navigational road map for using the National Electrical Code (NEC) will be stressed. This course will introduce the types and applications of raceways, wire

ways, and use of ducts. Students will learn function, operation and characteristics of transducers, transistors, amplifiers, integrated circuits and photo-operated devices, digital and logic circuits. Students will learn to read electrical blueprints, including layout, types of lines, symbols, drawings, architects and engineer's scales and electrical specifications. Commercial, industrial, and residential wiring will be covered.

AED 80.23

ELECTRICAL CRAFT

TRAINING – LEVEL II

0 UNIT

Class hours: 87.0 lecture/58.0 lab

Students will focus their studies in the methods, techniques, and characteristics related to electrical systems, their parts, circuits, and connections. They will learn the purpose of grounding and bonding electrical systems using National Electric Code (NEC) regulations. This course covers all types of bends in all sizes of conduit, focusing on mechanical, hydraulic, and electrical benders. It also covers the transportation, storage, and set up of cable reels, methods of rigging, and procedures for complete cable pulls in raceways and cable trays, focusing on National Electrical Manufacturers' Association (NEMA) and NEC installation requirements. Students will be taught about conductor terminations, splices, and the installation of electric services, circuit breakers and fuses, contactors and relays, and the basic principles of electrical lighting.

AED 80.24

ELECTRICAL CRAFT

TRAINING – LEVEL III

0 UNIT

Class hours: 87.0 lecture/58.0 lab

Students will be introduced to industry standards for electrical work, including branch circuits, rating and de-rating, and various types of residential and commercial electrical loads. This course covers the types of conductors used in wiring systems, including insulation, current-carrying capacity temperature ratings, and the use of fuses for over-current protection in all types of electrical systems. Functions, operation, and characteristic of various types of motors will be taught to the electrical student. Students will learn about hazardous locations and how to correct them.

AED 80.25

ELECTRICAL CRAFT

TRAINING – LEVEL IV

0 UNIT

Class hours: 87.0 lecture/58.0 lab

This course will cover basic calculation procedures and calculations for residential, commercial, and farming application. Students will be introduced to the practical

applications of lighting, covering lighting installations, applications and wiring systems, and basic electronic theory. This course will also introduce the student to fire alarm systems, specialty transformer, principles and practical applications of solid state controls, and Heating, Ventilating and Air Conditioning (HVAC) controls. A brief introduction to welding machine types and how operate will be covered. Students will continue learning detailed installation techniques for heating and cooling elements. Students will continue their training in motor maintenance techniques. An overview of high voltage terminators and splices and the National Electric Code (NEC) and cable manufactures requirement will be covered.

AED 90.01

SUPERVISED SCIENCE

TUTORIAL

0 UNIT

Class hours: 36 lab

This course is designed to facilitate the learning of scientific principles and techniques through individualized and mediated instruction. It is open to any student enrolled in any science course. (Formerly BIOL 9T, CHEM 9T)

AED 90.03

SUPERVISED COMPUTER

UTILIZATION TUTORIAL LAB

Class hours: 18 lab

Students must attend two hours minimum per week and are limited to a maximum of six hours per week multiplied by the number of AS/400 courses in which the students are enrolled. (Formerly CIS2L/CIS 3L)

AED 90.32

COMMUNICATION DISORDERS

0 UNIT

Class hours: 3 lecture

Open entry/open exit

Limitation on enrollment: consultation by a certified speech pathologist. This course is for those students who have speech, hearing, language difficulties such as articulation problems, stuttering, voice disorders, regional or foreign dialects, and speech impairments due to hearing difficulties. This course provides individual or small group therapy. Students may enter the clinic at any time during the semester. (Formerly SPCH 32)

AED 90.36

SUPERVISED INDIVIDUAL

ESL TUTORIAL

0 UNIT

Class hours: 3 lab

Open entry/open exit

Recommendation: Enrollment in any Cerritos College course.

This course assists students in reinforcing, expanding, and improving the skills related

to their specific English as a Second Language concerns. The course is taught using diagnostic-prescriptive methods, technology-mediated instruction, and individual and small group instruction. (Formerly ESL 36T)

AED 90.46

INDIVIDUALIZED SPEECH 0 UNIT

Class hours: 3 lab

Open entry/open exit

This course explores topics in speech communications that are necessary for successful communication interactions to occur in college or community settings and, in the workplace. This course may not be taught every semester. (Formerly SPCH 46T)

AED 90.47

SUPERVISED NURSING – TUTORIAL 0 UNIT

Class hours: 9 lab

Open entry/open exit

Corequisite: Any nursing course or equivalent.

This course is designed to facilitate the learning of nursing knowledge, skills, and concepts through individualized and mediated instruction. It is open to students in the nursing program or planning to transfer into the program. This course is offered on a credit/no credit basis only. (Formerly (NRSG 47T)

AED 90.7

SUPERVISED ASSISTANCE FOR TECHNOLOGY BASED COURSES 0 UNIT

Class hours: 3 lab

Open entry/open exit

This course introduces student knowledge of educational technology resources on computers, improves student use of education technology for successful completion of technology-based course assignments, and empowers student confidence in utilizing educational technology. Special attention will be given to skills necessary for success in distance education courses. Formerly EDT 6T/EDT 7T/READ 5T)

AED 90.91

SUPERVISED MATHEMATICS - TUTORIAL 0 UNIT

Class hours: 2 lab

Open entry/open exit

Corequisite: Enrollment in any Mathematics course.

This course is designed to facilitate the learning of mathematical knowledge, skills, and concepts through individualized and mediated instruction. It is open to any student enrolled in any mathematics course. (Formerly MATH 9T)

The excellence of a college program is closely related to the excellence of the college faculty. The Cerritos College faculty represents a rich cross-section of scholarship, experience, and above all dedication to teaching. The faculty has helped earn a reputation for Cerritos as one of the finest community colleges in California.

The Faculty Senate of Cerritos College studies and recommends to the administration and Governing Board matters related to academic and professional standards and affairs of the college. The Senate consists of three officers and elected representatives from each of the college's instructional divisions.

ABBRUZZESE, MARK (2005)

Instructor

Anthropology

B.A., California State University, Fullerton

M.A., State University of New York, Binghamton

ABING, JOSEPH (2003)

Instructor

Physical Education/Athletics

B.A., University of California, Los Angeles

M.A., Azusa Pacific University

ABORN, LUCINDA (2006)

Dean of Disabled Student Program & Services

B.A. Southwest Texas State University

M.A. California State University, Northridge

Ph.D. University of Northern Colorado

ACKLAND, DEAN (1987)

Professor

Coordinator/Supervisor of Student Activities

B.S., California State University, Long Beach

M.A., Azusa Pacific

ALBANESE, JAMES (2008)

Interim Vice President of Business Services/Assistant Superintendent

B.A., California State University, San Diego

M.B.A., Ed.D., University of Southern California

ALENIKOV, TERESA (2002)

Assistant Professor

Accounting/Finance

B.S., M.B.A., California State University, Long Beach

ALEXANDER, CYNTHIA (2000)

Assistant Professor

Educational Technology

B.A., California State University, Long Beach

J.D., Western State University

ALVAREZ, LYDIA (2000)

Assistant Professor

English

B.A., Pomona College

M.A., California Polytechnic State University, Pomona

ANDRADE, ISREAL (2006)

Instructor

Automotive Mechanical Repair

A.A. Cerritos College

ARAGON, RICHARD (1994)

Professor

Automotive Mechanical Repair

B.A., California State University, Los Angeles

M.A., California State University, Los Angeles

ARCE, CARLOS (1991)

Assistant Professor

Spanish

B.A., California State University, Chico

M.A., California State University, Sacramento

ARTIAGA, BENJAMIN (2007)

Instructor

Physical Education/Athletics

M.A., California State University, Long Beach

ARFWEDSON, CHRISTINE (1997)

Professor

Nursing Education

B.S., Nursing University of the State of New York

M.S.N., University of Phoenix

ASHE, SUZANNE (1986)

Professor

English

B.A., Rosary College, River Forest, IL

M.A., University of California, Los Angeles

ASIDDAO, VALENTIN (1992)

Associate Professor

English

B.A., Ateneo de Manila University

M.A., California State University, Long Beach

ASPEREN, ROBERT (1979)

Professor

Auto Body

A.A., Cerritos College

AUSTIN, ANTHONY (1980)

Associate Professor

Electronics

B.A., California State University, Los Angeles

AVILA, ARCADIO (2005)

Operations Manager

BALMAGES, MARY (1992)

Professor

Court Reporting

A.A., Fullerton Junior College

A.B., University of California, Berkeley

M.A., Chapman University

BARCELO, MARVELINA (2004)

Counselor/Instructor

Counseling

M.S., University of LaVerne

BARON, TONY (1986)

Instructor

Automotive Technology

A.A., A.S., Pierce College

B.A., California State University, Los Angeles

BARRETT, BONNIE R. (1998)

Professor

Graphic Design/Computer Graphics

B.A., Immaculate Heart College

M.A., California State University, Los Angeles

M.F.A., California State University, Fullerton

BATHKE, JULIE (2002)

Assistant Professor

Physical Therapist Assistant

B.S., California State University, Long Beach

M.S., University of Kentucky

BEALE, DARRYL K. (1973)

Professor

Psychology

Ph.D., University of Southern California

BECK, ANGELA (2004)

Associate Professor

Child Development

B.A., California State University, Long Beach

M.A., Pacific Oaks College

BELLAS, MONICA (2000)

Associate Professor

Anthropology

B.A., California State University, Northridge

M.A., Ph.D., University of California, Riverside

BELLO-GARDNER, SYLVIA (1987)

Professor

Counselor

B.A., University of California, Los Angeles

M.S., California State University, Long Beach

BELROY, BARBARA (2000)

Associate Professor

Reading

B.A., M.S., California State University, Fullerton

M.A., California State University, Long Beach

BENDER, W. JON (1988)

Instructor

Automotive Technology

A.A., A.S., Los Angeles Pierce College

B.A., California State University, Los Angeles

BERKLITE, STEVEN L. (1985)

Professor

Automotive Technology

B.A., California State University, Long Beach

M.A., Pepperdine University

BERRY, PATRICIA A. (1978)

Professor

English as a Second Language

A.A., Santa Ana College

B.A., M.A., California State University, Fullerton

BETANCOURT, DAVID (1999)

Associate Professor/Director of Bands Music

B.M., Berklee College of Music

M.M., N. Arizona University

BETTINO, M. L. (1991)

Dean of Academic Affairs

B.A., M.A., California State University, Northridge

BLACKMUN, EUGENE (1983)

Professor

Business

A.A., Long Beach City College

B.S., Brigham Young University

BOARDMAN, CONSTANCE (1991)

Associate Professor

Biology

B.S., M.S., California State University, Long Beach

BOGDANOVICH, HOLLY (2004)

Director of Student Activities

B.A. California Polytechnic State University,

San Luis Obispo

M.A. California State University, Los Angeles

BOWMAN, TAYLOR (1999)

Web Administrator

B.J., B.F.A., University of Texas

M.F.A., University of North Texas

BRADBURY, JEFFERY (1999)

Associate Professor

Chemistry

B.S., Biola University

M.S., California State Polytechnic University,

Pomona

BRADY, MARY ELLEN (2004)

Instructor

Real Estate

A.A., Cerritos College

B.A. Azusa Pacific University

BRAUN, SHARON K. (1997)

Assistant Professor

Child Development

M.A., Pacific Oaks

BREIT, CRAIG A. (1985)

Assistant Professor

Theatre Arts

B.A., M.A., California State University, Long Beach

BRIDGES, GLORIA (1999)

Professor/Counselor

B.A., University of California, Los Angeles

M.A., California State University, Dominguez Hills

BROOKS, KELLI (2006)

Instructor

Nursing

B.S., M.S., California State University,

Dominguez Hills

BUDARIN, DMITRI (2003)

Professor

Mathematics

B.S., M.S., Moscow State University

BUENO, NI (2005)

Assistant Professor

Fitness

B.S., University of South Florida

M.S., United States Sports Academy

EDD, Pepperdine University

BUKOWIECKI, RICHARD (1988)

Chief of Campus Police

A.A.S., Kaplan University

BURNS, MARLA (1990)

Professor

English

A.A., Saddleback College

B.A., California State University, San Jose

M.A., California State University, San Francisco

BUSCHAUER, ROBERT (1989)

Professor

Physics

B.S., California State Polytechnic University,

Pomona

M.A., Ph.D., University of California, Irvine

BYUN, EUI WON JAMES (2004)

Assistant Professor

Math

B.A., California State University, San Bernardino

M.A., San Bernardino

CABUTO, FROYLAN (2000)

Instructor

Spanish

B.A., M.A., California State University, Los Angeles

CAIN, GARY L. (1998)

Professor

Student Activities

B.A., M.A., Stanford University

CAINES, THOMAS R. (1997)

Instructor

Health, Physical Education/Athletics

B.A., California State University, Long Beach

M.Ed., Azusa Pacific University

CAMERON, RICHARD D. (1997)

Instructor

Journalism

B.A., M.A., California State University, Fresno

CAMPOLO, ROBERT B. (1997)

Associate Professor

Theatre Arts

B.F.A., School of Visual Arts

M.F.A., University of California, Los Angeles

CARNEY, DANIELLE (2000)

Assistant Professor

English

B.A., M.A., California State University, Long Beach

CARREON, LORA (2005)

Assistant Professor

Mathematics

B.S., M.S., California State University, Long Beach

CARROLL, DANI (2002)

Assistant Professor

Dental Hygiene

A.A., Cerritos College

B.A., M.A., California State University, Long Beach

CASAS, RALPH P. (1995)

Professor

Pharmacy Technology

A.A., Whittier College

M.A., Fuller Theological Seminary

M.A., Ph.D., Claremont School of Theology

Ph.D., University of Southern California

CASILLAS, ROCIO (2003)

*Assistant Professor/Counselor
Counseling*
B.A. University of California
M.A., Loyola Marymount University

CHALMERS, GRAHAM (1991)

Professor
Mathematics
B.A., University of Waterloo
M.A., Ph.D., University of California, Berkeley

CHAMBERS, CAROLYN (2008)

*Instructional Dean, Science, Engineering
& Mathematics*
B.A., Stanford University
M.S., Ph.D., University of California, Davis

CHAVEZ, ERLINDA (1989)

Professor
Cosmetology
A.A., Cerritos College

CHESTER, ROBERT (1987)

Associate Professor
English
B.A., M.A., California State University, Northridge

CHOMIAK, RENEE D. (2001)

Dean of Counseling Services
A.A., Lincoln Land College
B.A., Oral Roberts University
M.A., Fuller Theological Seminary
M.S., California State University, Los Angeles

CLARKE, MARY (1980)

Professor
Mathematics
B.A., M.A., California State University, Long Beach

CLEMANS, SUSANNA (1986)

Professor
English
A.A., Orange Coast College
B.A., M.A., California State University, Fullerton

CLIFFORD, STEPHEN (2003)

Associate Professor
English
B.A., Assumption College
M.A., Marquette University
Ph.D., University of Washington

CODD, GERALDINE A. (1997)

Assistant Professor
Reading
B.A., Rider College
M.A., Seton Hall University

COLLINS, JOHN (2006)

Assistant Professor
Administration of Justice
A.A., East Los Angeles College
B.S. California State University, Los Angeles

CONLEY, ANGELA (2004)

Assistant Professor
Math
B.A., M.A., California State University, Fullerton

CONNAL, JANICE S. (1988)

Counselor/Instructor
A.A., Fullerton College
B.A., Chapman College
M.A., California State University, Fullerton
Ph.D., University of California, Los Angeles

CONVEY, CYNTHIA (1996)

*Manager of Employment Services/
Faculty & Staff Diversity Officer*
B.A., University of California, Irvine
J.D., University of California, Davis

COOKE, MELODIE (2004)

Assistant Professor
Nursing
A.S., San Bernardino Valley College
B.S., B.S.N., M.S.N., University of California, Los Angeles

CORDERO, MAGGIE (2005)

Director of Pathway Programs
B.S., University of Southern California
J.D., Syracuse University

CORDOVA, ERNESTO (2002)

Instructor
Mathematics
B.S., University of California, Los Angeles
M.S., California State University, Long Beach

COULTER, LUCIA (1987)

Associate Professor
English as a Second Language
B.A., California State University, Fullerton
M.A., American University in Cairo, Egypt

COVILL, MATHEW (2005)

Instructor
Biological Sciences
B.S., M.S., California State University, Long Beach

CRAWFORD, SUZANNE (2004)

Assistant Professor
English
B.A., M.A., California State Polytechnic University, Pomona

DE FRANCE, FRANCINE L. (1976)

*Instructional Dean, Humanities &
Social Sciences*
Professor/English
B.A., M.Ed., Temple University
M.A., California State University, Long Beach

DEMICHELE, ANNA (2004)

Professor
Music
M.A., Ph.D., Claremont Graduate University

DEMIAN, KAMAL A. (1997)

Professor
Mathematics/Engineering
B.S., Ain Shams University, Cairo, Egypt
M.S., California State University, Long Beach

DUFF, KIMBERLEY, (1999)

Associate Professor
Psychology
B.A., University of California, Santa Barbara
M.A., Ph.D., University of Illinois, Chicago

DUNROE, WILLIAM D. (1979)

Professor
Psychology
B.A., M.A., California State University, Fullerton
Ph.D., Claremont Graduate School

DUVA, MARK (2004)

Assistant Professor
Psychology
B.A., California State Polytechnic University, Pomona
M.A., Ph.D., University of California, Riverside

DURDELLA, NATHAN (2004)

Director of Research and Planning
A.A., Santa Ana College
B.A., M.A., Ph.D., University of California, Los Angeles

EDSON-PERONE, LORRAINE (1984)

Professor
Mathematics
B.A., California State University, Long Beach
M.S., University of LaVerne
M.A., California State University, Fullerton

EDWARDS, CARRIE E. (1997)

Professor
Health, Fitness/Wellness
B.A., New York University
M.A., Ph.D., University of Southern California

ELIZONDO, SANDRA (2000)

Associate Professor
*Business Computerized Office
Technologies*
B.S., California State University, Los Angeles
J.D., Loyola Law School

ERNEST, ROGER (2000)

Instructor

English

B.A., California State University, Long Beach

M.A., California State University, Dominguez Hills

FABISH, DAVID M. (1994)

Professor

English

B.A., California State University, Long Beach

M.F.A., University of Iowa

FALCON, DENNIS P. (1997)

Assistant Professor

Political Science

B.A., California State University, Long Beach

M.A., Southern Illinois University

FARINA, MICHAEL J. (1989)

Professor

Accounting

A.A., Cerritos College

B.A., California State University, Fullerton

M.B.A., University of California, Irvine

FARMER JR, WILLIAM (2005)

Acting President/Superintendent

B.A., Georgetown College, Kentucky

M.A., Bradley University, Illinois

FELDSTEIN, THERESE (1988)

Professor

Mathematics

B.S., M.S., Northern Illinois University

FERNANDEZ, CHRISTINA (2001)

Associate Professor

Photography

B.A., University of California, Los Angeles

M.F.A., California Institute of Arts

FERNANDEZ, WALTER I. (1995)

Associate Professor

History

B.A., M.A., California State University, Northridge

FINKELSTEIN, HY L. (1975)

Professor

Management

B.A., M.B.A., California State University, Long Beach

FLORES-CHURCH, ADRIANA (2006)

Assistant Director of Human Resources

B.S., Universidad Tecnologia de Mexico

M.A., University of Phoenix

FLORESCU, MIHAELA (2001)

Professor

French

M.A., Ph.D., University of California, Los Angeles

FOBI, CHARLENE (1988)

Professor

Nursing Education

A.D.N., B.S.N., University of Cincinnati

M.S.N., University of California, Los Angeles

Ed.D., Pepperdine University

FOLLETT, KAY S. (1981)

Professor

Disabled Student Programs & Services

B.S., University of Southern California

M.A., California State University, Los Angeles

Ph.D., University of Southern California

FORTNER, ANTHONY (1999)

Associate Professor

Woodworking Manufacturing

Technologies

B.A., California State University, Long Beach

FRANKLIN, LAURA (2002)

Director of Community Education

B.S., University of Arizona

M.A., University of California, Los Angeles

FRONKE, MARK J. (1992)

Professor

Accounting

B.S., University of Southern California

FUSCHETTO, SUSAN (2000)

Associate Professor

Computer and Information Sciences

B.A., National University

M.B.A., Pepperdine University

GAFFANEY, TODD W. (1975)

Instructor

Psychology

B.A., M.A., California State University, Northridge

GAIK, FRANK (1989)

Professor

English

B.S., McNeese State University

M.F.A., University of Arkansas

Ph.D., University of Southern California

GARRIOTT, DONALD (2008)

Instructor

Disabled Student Programs and Services

B.A. California State University, Dominguez Hills

M.S. National University

GAYLORD, KENNETH (1990)

Instructor

Physical Education/Athletics

B.A., California State University, Long Beach

M.A., Azusa Pacific

GEORGE, PATTY (1999)

Professor

Mathematics

B.A., M.A., M.S., University of California, Riverside

GERSITZ, LORRAINE (2000)

Librarian/Associate Professor

B.A., M.L.S., Rutgers University

GLICK, LEONARD (2006)

Instructor

Automotive Mechanical Repair

B.A., M.A., California State University, Long Beach

GONZALES, JOANA (2002)

Assistant Professor

English

B.A., M.A., University of California, Irvine

GRADIN, SUSAN (1999)

Associate Professor

Child Development

B.A., University of California, Santa Barbara

M.A., Pepperdine University

GROSFELD, STEPHEN (2004)

Instructor

Athletics

A.A., Cerritos College

B.S., Utah State

M.S., Azusa Pacific University

GUEST-GRIFFITH, ALISON J. (1997)

Instructor

Art

B.A., University of Leicester, England

M.A., Ohio State University

HAAS, JOHN H. (1998)

Instructor

History

B.A., California State University, Los Angeles

Ph.D., Claremont Graduate School

HALLINGER, DONALD (2001)

Associate Professor

Earth Science

B.S., Virginia Poly Tech Institute

M.A., Indiana University

HANKS, WENDELL G. (1966)

Professor

Speech Communication

A.A., Glendale College

B.A., University of California, Santa Barbara

M.A., California State University, Northridge

M.S., California State University, Long Beach

HARBUT, CHESTER (1989)

Professor

Biology

B.A., St. Ambrose College

M.S., University of California, Los Angeles

Ph.D., Tulane University

HAVICE, SALLY (1975)

Associate Professor

English

A.A., Cerritos College

B.A., M.A., California State University, Long Beach

HAYNES, W. DOUGLAS (1988)

Professor

Administration of Justice

A.A., Golden West College

B.S., M.S., California State University, Long Beach

HECKERMAN, EDWARD (2004)

Associate Professor

Photography

B.A., Sonoma State University

M.F.A., California Institute of Arts

HELBERG, BONNIE (1988)

Assistant Professor

Reading

B.A., M.A., California State University, Long Beach

HENRIQUES, JAMES (1988)

Professor

Physics

B.S., M.S., Georgia State University

M. M. California State University, Fullerton

HENRY, FRED (1986)

Assistant Professor

Welding

Community College Ltd Service Credential, UCLA

HIRANANDANI, JAYANANDA (1992)

Professor

Engineering Design Technology

B. Tech., M. Tech., Indian Inst. of Tech.,

Kharagpur, W. Bengal, India

M.S., University of California, Berkeley

HIROHAMA, STEVEN (2005)

Assistant Professor

Theatre Arts

B.A., B.F.A., University of Hawaii, Manoa

M.F.A., University of California, Los Angeles

HO, JENNEY (2003)

Directory of Purchasing

B.A., California State University, Fullerton

HOGGARD, KEVIN (1985)

Professor

Theatre Arts

B.A., M.F.A., University of California, Riverside

HOHLY, MARGARET (1984)

Professor

Computer and Information Sciences

B.S., M.S., California State University, Long Beach

M.S., California State University, Fullerton

HOLMES, JUDI (2001)

Assistant Professor

Disabled Student Programs and Services

B.A., M.S., California State University, Long Beach

HOLZGANG, AMY (2001)

Assistant Professor

Sociology

B.A., University of California, San Diego

M.A., Ph.D., Syracuse University

HOPPE-NAGAO, ANGELA K. (1995)

Professor

Speech Communication

B.A., M.A., California State University, Fullerton

HORVATH, ELLEN (1989)

Professor

Speech Pathology

B.A., Loyola Marymount

M.A., California State University, Long Beach

HOYLE, SHEELA (2000)

Professor/Counselor

B.A., University of California, Berkeley

M.A., California State University, San Diego

HU, PHILIP (2002)

Instructor

English

B.A., University of California, San Diego

M.F.A., California State University, San Diego

HUBER, ROBERT C. (1988)

Professor

Theatre Arts

B.A., California State University, Los Angeles

M.A., Humboldt State University

Ph.D., University of Southern California

HUGEN, MARK A. (1998)

Assistant Professor

Mathematics

A.B. Secondary, Dordt College

M.A., California State University, Fullerton

HUGHES, CAROL (2005)

Instructor

Nursing

A.S., Long Beach City College

B.S., California State University, Fullerton

M.S., California State University, Long Beach

HUNT, MARY (2004)

Central Intake and Service Specialist/

Assistant Professor

Disabled Student Programs and Services

B.E.A., Otis Art Institute

M.A., Philips Graduate Institute

HURTADO, HENRIETTA (2001)

Instructor/EOPS Counselor

B.A., California State University, San Diego

M.A., University of Redlands

JAIME, JENNIE (2000)

Assistant Professor

Spanish

B.A., M.A., California State University, Los Angeles

JANOSOVA, ANITA M. (1992)

Associate Professor

Art and Design

B.E.A., M.F.A., School of Art Institute, Chicago

JARRETT, GEORGE (2004)

Instructor

History

B.A., University of California, Santa Cruz

M.A., University of California, Davis

JENSEN, DEBORAH C. (1995)

Professor

Health, Physical Education/Athletics

B.S., California State University, Fullerton

M.S., Louisiana Tech University

JOHNSON JR, ADOLPH (1982)

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B.A., University of California, Santa Barbara

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California

JOHNSON, BRUCE A. (1977)

Professor

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A.S., Long Beach City College

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JOHNSON, JEANNE EVA (1973)

Professor

Cosmetology

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JOHNSON, WAYNE (1989)

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JORDAN, WESLEY (1991)

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JUNTILLA, TIMOTHY J. (1997)

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English

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KASTAN, CYNTHIA (1979)

Professor

Art and Design

Diplome Normal, Sorbonne, University of Paris

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English

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KEENAN, DIANE (1989)

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KETCHAM, JULE (1999)

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B.A., Chapman University

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KNOWLTON, MARY (2004)

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B.S.N., Marquette University

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KRAYER, ADELLE (2001)

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KREGER, ROBERT (1991)

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KREMER, NICK (2000)

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KRICHMAR, LEE (1999)

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LACY, TOR (2005)

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LAVARIERE, CYNTHIA (2000)

Instructor

Director of Forensics/Speech

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B.A., Point Loma Nazarene College

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LAZOR, C.G. (1984)

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Electronics

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LEON, RUBEN JR. (1990)

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Mathematics

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LE PERE, SUSAN C. (1995)

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Mathematics

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LEWANDOWSKI, THOMAS (2002)

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LEWELLEN, RITA (2002)

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Psychology

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LIVINGSTON, ROBERT (2001)

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OLIVER, SUSAN (1995)

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PACHECO, RUPERT (2004)

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PAGE, ELIZABETH (1998)

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PAIGE, MATTHEW (1999)

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English

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PARSONS, SUSAN (1985)

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PIORKOWSKI, MARIJEAN (1977)

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B.S., M.S., University of California, Los Angeles
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PIRTLE, DIANNE D. (1997)

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Sociology
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PORTIGAL, STEVEN J. (1991)

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POTTER, INGEBORG (1979)

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German
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PRIBBLE, MARY (1984)

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A.A., Citrus College
B.A., Whittier College
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PRICE, TERRY L. (1975)

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Plastics Technology
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PRINDLE, JEANINE V. (1977)

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Health, Physical Education/Athletics
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M.Ed., Azusa Pacific University

PRITCHARD, JR., GARY (1999)

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Music
B.M., Chapman University
M.A., Claremont Graduate School
Ph.D., University of California - Irvine

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RAWAL, SMITA (2006)

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Biological Sciences
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REAL, YANNICK (2000)

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Machine Tool Technology
B.S., University of Metz
M.S., California State University, Long Beach
Engr., University of Southern California

REECE, BRYAN S. (1991)

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B.A., Biola University

RICHEY, THOMAS (2003)

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RIEDEL, PATRICIA (2003)

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RIZKALLAH, BERLANTI (1981)

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ROTHER, EDWARD (1989)

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Architecture
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SALAZAR, MICHAEL (1998)

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SHARP, MAGEYA (1983)

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SPARKS JR., WILLIAM F. (1995)

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STEIN, GERALD (1992)

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STILES, LYNN M. (1990)

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STUART, PEGGY J. (1995)

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Instructor
Chemistry
M.S., The State University of New Jersey Rutgers

YABROFF, ALLISON (2006)

Assistant Professor
Biological Sciences
B.S., M.A., PhD, University of California,
Los Angeles

YEAGER, MARTHA (1982)

Associate Professor
English as a Second Language
B.A., State University of New York, Buffalo
M.A., Michigan State University

YOUNG, DAVID A. (1987)

Professor/Counselor
B.A., California State University, Northridge
M.A., University of California, Los Angeles
Ph.D., University of Southern California

ZEWAIL, MERVAT (1984)

Professor
Chemistry
B.S., University of Alexandria, Egypt
Ph.D., University of Pennsylvania

Faculty Emeriti

ADAMS, KEITH

(1970-1991)

Dean of Vocational Education/Extended Day

AGUIRRE, RUDOLPH

(1959-1987)

Art

ALLEGRE, JEAN

(1964-1991)

French

ALLEN, ROBERT

(1965-1991)

Business-Accounting

ANDERSON, LOWELL

(1962-2003)

Real Estate

ANGLE, NANCY

(1989-1999)

Mathematics

ARCHER, DONNY

(1961-1981)

Mathematics

BAIRD, MARGARET W.

(1965-1983)

Office Occupations

BAKER, EVERETT D.

(1959-1989)

Chemistry

BALCH, DONALD

(1962-1979)

English

BALEY, JOHN D.

(1971-2003)

Mathematics/Computer Science

BARAMKI, HENRIETTA

(1977-2003)

Nursing Education

BARKER, MATILDA

(1989-2000)

Sociology

BARCLAY, LOIS

(1964-1979)

Cosmetology

BAXTER, DORRIS

(1957-1984)

Chemistry

BAYER, CONNIE

(1966-2002)

Health and Physical Education

BEAM, ROGER D.

(1975-1993)

Automotive Technology

BEHREND, SHARON

(1976-1996)

Nursing Education

BELLUGUE, ROLAND

(1991-2000)

French

BELROY, ALEXANDER

(1964-2003)

English

BETZ, CHARLES R.

(1962-1998)

Economics

BEULIGMANN, MARIE

(1981-1999)

Nursing Education

BEYKIRCH, HELEN M.

(1984-1993)

Counselor

BIBB, EVELYN R.

(1958-1986)

English

BLACK, JOHN G.

(1959-1989)

Accounting

BLACK, RHEA G.

(1964-1999)

Physical Education

BLASZCAK, FRANK

(1962-1988)

Machine Tool/Plastics Technology

BLISS, BETTY

(1965-1983)

Dental Assisting

BLOOMFIELD, EDWARD H.

(1969-2003)

Philosophy

BLUSKE, MARGARET

(1958-1979)

German

BOCK, FRANK

(1961-1988)

Anthropology/Theatre

BOGDANOVICH, JACK

(1971-1998)

Physical Education/Athletics

BONNYCASTLE, WILLIAM L.

(1960-1984)

English

BOODNICK, ALLAN

(1965-1991)

Counselor

BOS, ROBERT KEMP

(1958-1984)

Counselor

BOYLE, JOHN

(1974-2006)

Biology

BRADY, LAWRENCE

(1970-1999)

Instructional Dean,
Fine Arts and Communications

BRADY, MELVIN

(1963-1991)

Business

BROADBENT, LINDSEY

(1966-79)

Technical Mathematics

BRODERICK, WILLIAM E.

(1976-2003)

Reading

BUFALINI, ELVIDIO G.

(1967-1986)

Counselor

BURNIGHT, RALPH F.

(1956-62)

President/Superintendent

CABEEN, CHARLES

(1958-1979)

Psychology

CALEY, DONALD

(1965-1987)

Marketing, Management, Business

CAMPBELL, CLINTON P.

(1965-1983)

Sociology

Faculty Emeriti

CANNON, JOHN P.

(1958-1980)

Earth Science

CARLSON, BARBARA

(1972-1985)

Nursing

CARLSON, LELAND

(1965-1967)

Mathematics

CARLSON, NORMAN

(1982-1991)

Drafting

CARSON, CHARLOTTE

(1963-1985)

Nursing

CASKEY, WILLIAM

(1961-1989)

Accounting

CATES, CARROLL

(1959-1988)

Physical Education

CHADWICK, RALPH G.

(1962-1980)

Associate Dean, Technology

CHOWEN, JUDITH

(1981-2006)

Accounting

COLE, JOSEPH C.

(1960-1973)

Psychology

CONOVER, SANDY

(1991-2002)

Nursing Education

COOK, EDWARD P.

(1965-1981)

Welding

COPPENGER, MICHAEL

(1980-2004)

Photography

CRACCHIOLO, EDITH E.

(1964-2000)

Psychology

CRANE, JULES

(1962-1989)

Biology

CROSS, KATHLEEN

(1990-2008)

Counselor

CROUSE, LOIS

(1963-1980)

Nursing Education

CUMMINGS, SELDEN

(1965-1993)

English

DARNALL, FLORENCE

(1959-1977)

Cosmetology

DAVIS, RICHARD H.

(1975-2003)

Computer and Information Sciences

DELEON, MANUEL

(1964-1991)

Art

DELYRE, WOLF R.

(1966-1977)

Dental Assisting

DENNY, PAUL

(1962-1979)

Business Education

DEREMO, GEORGE F., JR.

(1971-1999)

Art

DERMODY, EUGENE

(1965-1997)

History

DESFOR, DONALD

(1957-1989)

Photography/Physical Education

DIAZ, BEDAL

(1963-1989)

Counselor

DI CORPO, NELLO

(1959-1992)

Dean of Community/Continuing Education

DIGHERA, JAMES A.

(1960-1986)

Speech Communication

DOWDEN, JOHN

(1961-1991)

English

DOZIER, AMY L.

(1958-1974)

Physical Education and Recreation

DOZIER, PATRICIA

(1989-2001)

English as a Second Language

DOZIER, ROSE MARIE

(1964-1989)

French

DRANT, SANDRA

(1992-2003)

Court Reporting

DUNKIN, V. EDWIN

(1970-1984)

Electronics

DURAN, AGNES H

(1987-2004)

Reading

EGAN, ISABELLE

(1989-2007)

Counselor

ELIAS, ABUNDIO

(1969-1992)

Spanish

ENQUIST, MARVIN

(1990-2005)

Administration of Justice

ERJAVEC, DONALD

(1965-1998)

Music

ESCOBAR DE PATRYLA, LILLIAN

(1974-1993)

Child Development

EVANS, WILLIAM

(1974-2002)

Accounting

FAILOR, JOLEEN

(1976-2008)

Dental Assisting

FALLAR, MARGARET

(1965-1979)

Nursing Education

FEENEY, JOHN

(1958-1991)

Music

Faculty Emeriti

FENNER, WILBURT

(1972-1990)

Art

FINLEY, ROBIN

(1972-1994)

Biology

FISCHER, LAWRENCE

(1961-1992)

English

FLEMING, RONALD

(1963-1966)

Business

FOERSTER, ROBERT

(1969-1989)

Physical Education

FRAME, JAMES

(1965-1991)

Business Mathematics

FRANK, REX C.

(1957-1977)

Business

FRANKLEY, ALLEN G.

(1958-2003)

Engineering Design Technology

FREIFIELD, MAX

(1989-2003)

Speech Communication

FROST, WALLACE E.

(1965-1989)

Counselor

FULTS, JON

(1968-1993)

Business Computer Info Systems

GIANNONE, ANTHONY

(1971-1991)

Welding

GIRTNER, JOSEPH P.

(1968-1998)

Art

GRADISHAR, RUDOLPH L.

(1965-1984)

Business Law

GRAUPMAN, ALVINA

(1957-1986)

Office Occupations

GURRERA, BEN

(1976-1985)

Accounting

HALL, DONALD

(1959-1979)

Division Chairman, Health, P.E., and Recreation

HALLUM, ANDREW

(1973-1992)

Business/Disabled Student Programs

HAMPTON, PRESTON

(1989-2008)

Counselor

HANSON, KENNETH J.

(1985-2007)

Electronics

HARRINGTON, ROBERT

(1966-1979)

Data Processing

HARRIS, WAYNE

(1965-1974)

Physical Education

HART, OSCAR W.

(1959-1977)

Welding

HARTMAN, CLAUDE

(1971-1992)

Physical Science

HASSAN, GLORIA

(1982-1999)

Speech Communication

HENDERSON, SCOTT

(1974-1997)

Music

HENDRICKSON, THOM

(1965-1989)

Political Science/History

HENRY, PAUL L.

(1957-1982)

Machine Tool

HENTELL, DUCIA

(1968-1982)

Nursing Education

HENGSTELER, ELIZABETH

(1956-1977)

Philosophy

HERR, FLORENCE S.

(1973-1986)

Business

HICKEY, X. RAYMOND

(1959-1979)

Electronics

HINRICHSEN, KEITH

(1965-2002)

History

HOAD, GRETCHEN A.

(1987-2002)

Business Paralegal

HOFFLUND, CLYDE

(1957-1982)

Drafting

HOLLAND, ROGER

(1976-1992)

Business Administration

HOLMAN, JEAN LEE

(1962-1974)

Cosmetology

HOLMES, CAROLYN R.

(1996-2007)

Nursing

HOLSTEGE, MARTIN

(1962-1989)

Mathematics

HOUSEMAN, PHIL

(1982-2003)

Dean of Student Activities

HUBBELL, SILVIA R.

(1966-1999)

Spanish

HUBRECHT, GLENN

(1975-1991)

Electronics

HUFFMAN, JOAN

(1963-1991)

Biology

HUGHLETT, ROBERT

(1973-2005)

Director, Disabled Student Program
& Services

HUMISTON, GENEVIEVE

(1957-1960)

Dean of Admissions

Faculty Emeriti

HUNTER, FREDERICK*(1973-1988)*

Business Education

IDEAL, BONNIE*(1965 – 2002)*

Office Occupations

IKEMOTO, MILDRED*(1967-1992)*

Instructional Dean/Health Occupations

INCORVAIA, JOSEPH*(1958-1978)*

Business

JACKSON, JOHN*(1957-1991)*

Automotive Technology

JACKSON, THOMAS*(1980-2002)*

Accounting

JAEGER, GEORGE A.*(1965-2003)*

English

JANKOWSKI, SHIRLEY*(1975-1990)*

College Nurse

JENKINS, SARAH*(1959-1989)*

Librarian

JENNINGS, STANLEY*(1957-1985)*

History

JEPPESEN, JACK*(1964-1982)*

Economics

JOHNSON, CARL*(1958-1976)*

Librarian

JOHNSON, WILLIAM*(1971-1991)*

Physical Education

JONES, BETTY LOU*(1965-1989)*

Librarian

JONES, MARGIA*(1974-1979)*

Business Education

JORDAN, ROBERT*(1960-1989)*

Sociology

JULIANO, RICHARD*(1965-1991)*

Instruction Dean, HPE/Athletics

KAMANSKI, PAUL DAVID*(1959-1989)*

Physical Education

KARVELIS, DONALD*(1977-2003)*

History

KELDER, JOHN*(1965-1991)*

Business Computer Information Systems

KELLY, NANCY J.*(1975-2002)*

Health, Physical Education

KENNY, JAMES*(1970-2002)*

Computer and Information Systems

KERR, JOSEPH P.*(1963-1966)*

Data Processing

KETELLE, WILLIAM*(1975-1992)*

Furniture Manufacturing Technology

KIEFFER, KEPNER K.*(1984-2006)*

Accounting

KINCAID, WALLACE*(1957-1989)*

Physical Education

KLEIN, WERNER*(1960-1976)*

Dental Assisting

KLEINERMAN, JOSEPH*(1957-1987)*

Counselor

KORE, LEE*(1958-1982)*

Theatre Arts

KORSMEIER, HENRY F.*(1956-1969)*

Assistant Superintendent, Business

KROGUE, R. KENT*(1972-2005)*

Biology

LACKMAN, JACK*(1965-1984)*

English

LA GUARDIA, PATRICIA*(1973-1998)*

Director, Assessment Center

LAHRS, WILLIAM E.*(1965-1983)*

Office Occupations

LAIDLAW, RUTH F.*(1964-1986)*

Home Economics

LANE, WILMA C.*(1973-1989)*

Cosmetology

LANG, JEAN H.*(1972-1989)*

Nursing

LANGDON, DEARESTEEN*(1968-1991)*

Special Education

LAYTON, DONALD W.*(1962-1989)*

Earth Science

LEVI, LINDA*(1969-1998)*

Art

LEWIS, WILLIAM*(1962-1989)*

Speech Communications

LICARI, JOAN*(1966-2001)*

Geology

LITTLETON, OSCAR*(1958-1979)*

English

LOPEZ DEGAINES, CHRISTINA*(1976-2007)*

Counselor

LUCAS, STANLEY*(1976-1991)*

Automotive Technology

Faculty Emeriti

LUNDGREN, AUSTIN*(1965-1989)*

Accounting

MADDEN, JOHN*(1998-2006)*

Philosophy

MAGNUSON, WALTER C.*(1973-1993)*

Vice President of Business Services

MAKI, ROY E.*(1963-1983)*

Business

MANIRE, MARGARET V.*(1959-1975)*

School Nurse

MANTZ, CONCETTA*(1973-1993)*

Sociology

MARKHAM, WENDELL C.*(1965-1980)*

Chemistry

MARTIN, LUGENE*(1957-1989)*

Director of Counseling

MARTINEZ, ORLANDO*(1991-1999)*

Spanish

MARTINEZ, RUBEN*(1966-1991)*

Spanish

MASTALER, RUDY*(1976-1987)*

Technical Mathematics

MAYS, GLADYS*(1964-1979)*

Mathematics

MCDANNEL, KATHLEEN H.*(1962-1982)*

Business Education

MCGINNIS, JOHN*(1988-2008)*Dean of the Library & Learning
Resource Center**MCGRATH, RICHARD F.***(1963-1999)*

Administration of Justice

MCMAHON, GEORGE VINCENT*(1961-1984)*

Technical Mathematics

MEDOFF, JACK I.*(1966-1984)*

Metallurgy

MERKLE, MICHAEL L.*(1982-1995)*

Physical Education

MERRILL, MARY ALICE*(1962-1981)*

Chemistry

MICHAEL, WILFORD*(1973-1986)*

President-Superintendent

MILES, LYMAN C.*(1965-1983)*Administrative Assistant
Learning Resources Center**MILLER, ROBERT***(1976-1990)*

Administration of Justice

MILLS, MELVIN*(1965-1989)*

Biology/Anatomy & Physiology

MONTERA, FRANK J.*(1972-2003)*

Physical Education/Athletics

MONTGOMERY, DONALD*(1967-1989)*

Counselor

MOSER, BERNICE*(1988-2003)*

Nursing Education

MOSES, SHERILL*(1963-1989)*

Philosophy/Political Science

MYERS, ARLENE*(1970-1991)*

Business

NEFF, JOHN*(1959-1982)*

Anatomy and Physiology

NELSON, C. THOMAS*(1974-1996)*

Journalism

NEW, BILL*(1964-1997)*

Mathematics

NEWMAN, FRAN*(1972-1992)*

Vice President of Student Services

NEVILLE, KENNETH C.*(1965-1986)*

English/Spanish

NOGLE, DONALD G.*(1957-1986)*

Counselor

NORMAN, DAVID*(1965-1974)*

Data Processing

NUTTALL, ANN C.*(1970-1978)*

English

ORR, MILDRED*(1971-1983)*

Office Occupations

PAIGE, DEAN*(1964-1992)*

Instructional Dean, Science/Engineering/Math

PALMER, JOHN*(1956-1976)*

Political Science

PASCOE, RAYMOND*(1961-1989)*

Mathematics

PATRICK, CAROL*(1997-2006)*

Dean of Counseling Services

PELLONI, JR., JOHN*(1989-2000)*

Cosmetology

PENDLETON, WILLIAM C.*(1960-1988)*

Physical Education

PERALTA, TRUDY B.*(1990-2007)*

English

PERKINS, SHERRY*(1979-2006)*

Court Reporting

Faculty Emeriti

PETER, JAMES R.

(1961-1997)

Chemistry

PINDER, PATRICIA

(1978-1999)

Coordinator of Student Health & Wellness

PLOWMAN, LOIS

(1965-1982)

Business

PORTER, STANLEY

(1964-1991)

Music

POTTER, RAYMOND

(1962-1989)

Counselor

POWERS, LELA

(1969-1991)

Office Skills

POWERS, WILLIS

(1959-1979)

Mathematics

PRATT, JOAN

(1981-2005)

Nursing Education

PYKA, ANDREW J.

(1963-1976)

Engineering and Mathematics

REECE, JOHN A.

(1964-1988)

Administration of Justice

REGAN, PATRICIA

(1974-1994)

Medical Assisting

REW, WAYNE

(1970-1999)

Counselor

RINGWALD, SIEGFRIED

(1969-1991)

English/Law

ROBERTS, CECIL

(1971-1979)

Librarian

ROBERTS, EDITH

(1960-1980)

Physical Education

ROBERTS, LYNDA

(1989-2008)

Child Development

ROBINSON, ELLIS

(1983-2003)

Culinary Arts

ROBINSON, RICHARD B.

(1965-1986)

Associate Dean, Student Activities

RODRIGUEZ, ANTONIO

(1968-1989)

Speech Communication

RODRIGUEZ, PHILLIP

(1974-2008)

English

ROSIER, RUDOLF

(1975-1992)

Baking

SAFERITE, ELWYN

(1957-1981)

General Business and Accounting

SANSON, DORIS

(1961-1979)

Division Chairman, Health Occupations

SAUCEDO, MARCELINO

(1972-1993)

Counselor

SCHAUMBURG, GARY

(1970-2003)

Psychology

SCHUTZ, JOAN

(1957-1979)

Division Chairman, Health, P.E. and Recreation

SCOTT, DICK

(1957-1980)

History

SCOTT, LACRETA

(1984-2002)

English

SCOTT, OLIVE P.

(1959-1986)

Vice President for Instructional Services

SEELEY, GEORGE

(1959-1988)

Physics

SEWELL, DONALD

(1989-2003)

Counselor

SHARPE, DOLLIE

(1979-2001)

Cosmetology

SHAW, FRANK

(1966-1982)

Administration of Justice

SHAWVER, LOUIS REED

(1965-1984)

Industrial Supervision

SHOPFNER, JERRY

(1970-1993)

Autobody

SHOWMAN, FRANK

(1957-1989)

Physics

SHUTT, ROLAND P.

(1963-1972)

Art

SIEGEL, ALLAN B.

(1961-1993)

English

SIEGEL, FRANCES J.

(1962-1966)

History

SIMONEK, HAROLD R.

(1963-2003)

Physical Education/Athletics

SIRIANI, DON V.

(1957-1983)

Dean of Instructional Support

SMITH, JEFFERY

(1979-2008)

Physical Education/Athletics

SMITH, RALPH

(1961-1983)

Drafting

SMITH, RONALD L.

(1992-2006)

Machine Tool Technology

SOKOLIK, JOSEPH

(1982-1991)

Technology

Faculty Emeriti

SPECHT, CARL H.*(1963-1982)*

Administration of Justice

SPENCER, SONORA W.*(1960-1973)*

Dental Assisting

SPETRINO, ALBERT*(1973-2005)*

Disabled Student Programs and Services

STAGNER, EUGENE*(1969-1988)*

Automotive Technology

STANLEY, DELMAR*(1961-1991)*

Accounting/General Business

STERNER, WANDA*(1959-1992)*

Chemistry/Energy

STEWART, PATRICIA J.*(1972-2006)*

Dental Hygiene

STORKAN, RUSSELL*(1965-2001)*

History

STRAUSS, BENJAMIN G.*(1962-1967)*

Data Processing

SUMNER, EDWARD M.*(1957-1970)*

Electronics

SWIFT, ELIZABETH*(1987-2004)*

Mathematics

TABOR, RON*(1965-1981)*

Speech Communication

TASLITZ, HOWARD*(1964-1992)*

History

TAYLOR, ROBERT A.*(1969-1983)*

Philosophy/English

THOMPSON, SIDNEY L.*(1964-1984)*

Librarian

TILGHMAN, CHARLES*(1965-1991)*

Instructional Dean, Fine Arts and Communications

TOLLEFSON, GLENN*(1965-1991)*

Numerical Control

TREAT, MARSHALL E.*(1956-1977)*

Geology

TUCKER, ROY*(1961-1991)*

History/Political Science

TURNBLOM, SELMA*(1987-1998)*

Office Technologies

TYNE, JAMES PATRICK*(1963-1997)*

Physical Education

VATCHER, OLGA SIEBERT*(1957-1965)*

Business Education

VENITSKY, JULIETTE L.*(1957-1984)*

Speech Communication

VIGIL, MODESTO*(1972-1993)*

Autobody

WAGNER, CHARLOTTE F.*(1968-1978)*

Speech Communication

WAGNER, M. EDWARD*(1960-1975)*

Dean of Admissions and Records

WALKER, JOAN*(1969-1993)*

Cosmetology

WARDEN, WALTER C.*(1957-1972)*

Mathematics

WEAVER, EDGAR B.*(1962-1987)*

Technology/Drafting

WEBER, NOVA JEAN*(1964-1992)*

English

WEGENER, HELEN*(1959-1986)*

English

WEIDMAN, MARY LOU*(1964-1993)*

Office Occupations

WEIGEL, CAMELIA*(1960-1999)*

English

WELCH, GLORIA*(1965-1986)*

Chemistry and Mathematics

WENICK, LILLIAN*(1970-1989)*

Reading

WENSMAN, MARTIN H.*(1963-1983)*

Associate Dean, Business Division

WERNER, NEWTON*(1964-2000)*

Chemistry

WESSELL, DOUGLAS*(1968-1991)*

Philosophy

WESTERLIN, LEE MOILE*(1976-1991)*

Instructional Dean, Business

WHALEN, MARGARET*(1964-1985)*

Nursing Education

WHITE, LOUISE*(1960-1980)*

Nursing Education

WHITEMAN, RICHARD E.*(1970-1989)*

Dean of Business and Industry

WHITLOCK, THOMAS*(1964-1999)*

Accounting/Business Law

WHITMAN, CORINE*(1967-1981)*

Nursing Education

WILLIAMS, GEORGE R.*(1964-1988)*

Architecture

WILKOFF, HUGH

(1962-2003)

Business

WILLETTE, CHARLES

(1964-1985)

Business Administration

WILLIAMS, LEE H.

(1964-1972)

Director of Purchasing

WILSON, LOUIS

(1963-1985)

Mathematics

WILSON, ROY

(1971-2000)

Technical Math

WOLFE, BETTY

(1990-2000)

Reading

WOLFE, FREDERICK C.

(1961-1987)

Counselor

WOOD, MELVIN

(1961-1983)

Art

WOODS, YVONNE

(1991-2003)

Early Childhood Education

WOOLEVER, JAMES D.

(1966-2003)

Computer and Information Sciences

WRIGHT, FRANK

(1965-2005)

Mathematics/Computer Sciences

YEE, FRANKLIN

(1976-2003)

Ornamental Horticulture

YSAIS, REY

(1965-2003)

Mathematics

ZIVE, INA

(1972-2002)

Dental Hygiene

Classified Employees by Area

ACADEMIC AFFAIRS

BOYOL, MARIA
CASTRO, MONICA
CHAMBERS, PAMELA
DOUGLAS, WILLIAM
B.S. University of Phoenix
EVANS, LEE
GALLANT, JOHN
KRISTINAT, LAURIE
O'DONNELL, DOROTHY
STEVENS, VICTORIA

ADMISSIONS AND RECORDS

ALEGRE, ROSE
BADZEY, PAUL
A.A., Cerritos College
BERNABE, DELFINA
BOSS, DAVID
BOSS, SUE
A.A., Cerritos College
CAMPBELL, CHRISTINA
A.A., Cerritos College
CARY, JOAN
A.A., Cerritos College
EAR, JOEY
A.A., Cerritos College
A.A., Long Beach City College
FABIAN, LISELDA
GUTIERREZ, VERONICA
LADMIRAULT, BARBARA
MEJIA, NATASHA
OTERO, KATHLEEN
PENDLETON, BENJAMIN
TOLSON, MIRIAM
TORRES, THERESA
VALLES, LISHA

BUSINESS EDUCATION

COOPER, JOHNNY
A.A., Cerritos College
B.S., M.A., Azusa Pacific University
ENGLAND, MICKI
MATTISON, EVELYN
SENE, JOYLYNN

BUSINESS SERVICES

KAUFMAN, LINDA

CAMPUS POLICE

ALBANO, RANDY
BARRON, JAIRZINHIO
BRUSH, TOM
BUSTAMANTE, RICARDO
CASTILLO, ANGEL

CHAVEZ, MARIO
ECHEVARRIA, JOHN
JAMISON, CARY
KOMADINA, DEBRA
MARQUEZ, ANA MARIA
RAMIREZ, TERRI
RIOS JR., SANTIAGO
RODRIGUEZ, ESTER
VELAZQUEZ, CARLO

CAREER SERVICES

MOTA, MARIA LUISA
RODRIGUEZ, MARINA
THE, CHRISTINA
A.A., Cerritos College
B.A., California State University, Fullerton
M.B.A., California State University,
Dominguez Hills
YBANEZ, REGINA
VASQUEZ, ROSARIO

CHILD DEVELOPMENT CENTER

FEIST, ASTRID
GONZALEZ, DEBRA
KRAUSE, JUDITH
LOPEZ, NIKKI
MARTUCCIO, LETICIA
POPIEL DE CAZAUX, REENA

COMMUNICATION CENTER

GARCIA, CARMEN
PESANTI, SHELLEY

COMMUNITY, INDUSTRY & TECHNOLOGY EDUCATION

CURRY, VICKY
DELLIMAGINE, TRUDY
ELIAS, VERONICA
GOMEZ, CHRISTINE
GREER, SALLY
HEAPY, SUZANNE
HOGUE, KATHY
ISAI, LINDA
KLINE, GAYLE
A.A., Cerritos College
LO, CINDY
MARTINEZ, DARYABETH
MUNOZ, JESSICA
NISHIMURA, LESLIE
A.A., Kapiolani Community College
B.S., California State University, Long Beach
PREECE, ROBIN
TOVAR, TISHA – STEPHANIE

WILLIAMS, MANSER, DANYLLE
YORKE, CARLA
VALENZUELA ACOSTA, SYLVIA

COUNSELING

APPLEBURY, KIMBERLY
BELLO, FRANCESCA
A.A., Cerritos College
B.S., California State University, Fullerton
PANG, REBECCA
RODRIGUEZ, MONIQUE
TOWHID, KRISTEN

DISABLED STUDENT PROGRAMS

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Cerritos College Alcohol and Drug Policy

CERRITOS COLLEGE'S POLICY

It is the policy of Cerritos College to implement and maintain the provisions of the Drug-Free Schools and Communities Act amendments of 1989. The college's policy clearly prohibits the unlawful possession, use, or distribution of illicit drug or alcohol by students and employees on campus or as part of any of its activities.

INFORMATION REGARDING LEGAL SANCTIONS UNDER FEDERAL, STATE, AND LOCAL LAWS IS AVAILABLE IN THE FOLLOWING LOCATIONS:

1. Library
2. Human Resources
3. Student Activities Office
4. Assessment Center
5. Health and Wellness Office

ALCOHOL/DRUG ABUSE COUNSELING, TREATMENT, REHABILITATION INFORMATION:

Referral information and Social Service Directories for Los Angeles and Orange Counties are available in the following locations:

1. Counseling Center, ext. 2231
2. Student Health and Wellness Center, ext. 2321
3. Adult Re-entry, ext. 2362

HEALTH RISKS

WHAT CAN HAPPEN TO YOUR BODY

DRUG	Initial Use	Chronic Use
ALCOHOL	• Heart beats faster and weaker • Become clumsy and stagger • Get confused and can't concentrate • Feel sick to your stomach, vomit • Mood changes quickly to violence or depression	• Permanent liver, heart, brain damage • Liver cancer • Stomach ulcers • High blood pressure • Alcoholism
COCAINE/CRACK	• Heart beats faster/blood pressure rises • Body temperature rises • Breathe faster • Can't sit still or sleep	• Permanent lung damage • Holes and ulcers inside nose • Personality changes/violent behavior • Fear of people and things (paranoia) • See things that aren't real (hallucinate)
MARIJUANA	• Feel calm, relaxed, sleepy • Heart beats faster • Reaction time slows down • Throat, mouth, and lips get dry • Eyes get bloodshot, eyesight blurs • Lose sense of time	• Heart and lung damage • Lung cancer • Can't remember things • Lower ability to fight off colds and flu • Lower sperm count and movement • Dysmenorrhea
STEROIDS	• Heart beats faster/blood pressure rises • Become more alert • Feel dizzy and shaky • Can't sit still or sleep • Breath smells bad, mouth and lips dry out	• Heart attacks • Liver cancer • Stop growing taller • Impotency • Dysmenorrhea
TOBACCO	• Heart beats faster/blood pressure rises • Feel sick to your stomach • Feel dizzy • Feelings of tension/tiredness • Breath smells bad, teeth stained	• Lung and heart damage • Lung, mouth, and throat cancer • Stomach ulcers • High blood pressure • Sense of taste and smell reduced