

Cerritos College



2012-13 Catalog

www.cerritos.edu




Cerritos
College

11110 Alondra Blvd., Norwalk, CA 90650

Message From The President



Welcome to Cerritos College!

Founded in 1955, Cerritos College is a public comprehensive community college serving an area of 52 square miles of southeastern Los Angeles County. Cerritos College symbolizes many things to many people. This defining fact is reflected in the large number of courses, programs of study and other opportunities available to students of all backgrounds and ages. We serve over 23,000 students each semester with a focus on transfer, career technical education and workforce preparation. The college offers 136 associate degrees and 75 certificates of achievement, and has 10 transfer guarantee agreements and 6 transfer partnerships.

It is our sincere hope that you will find this information helpful in determining which classes will frame the course of your academic future or develop the skills you need for your current or future career. We are committed to providing accessible, low-cost and quality education for everyone in our community. We hope that you will discover the greatness of your potential as you pursue your education here. You are our highest priority and our faculty, staff and administrators are committed to serving you.

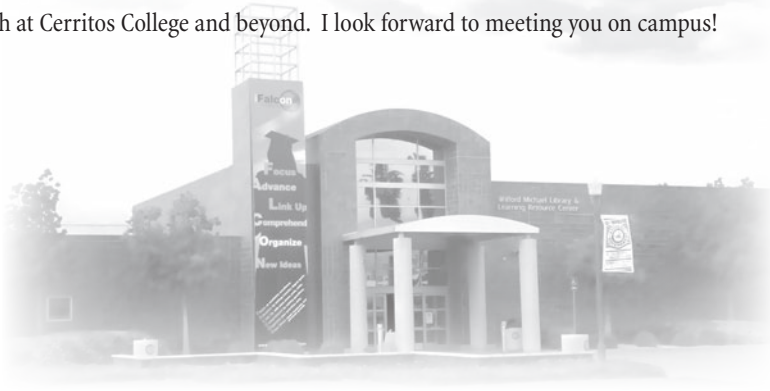
Cerritos College is dedicated to advancing the educational experience of its students by continuously updating campus facilities. Construction is underway on a new facility that will serve both the Liberal Arts division and Disabled Student Programs and Services (DSPS) department. Along with the renovation of several campus buildings and athletic areas, these projects are funded through the passage of local Measure CC which provides bond funds for facilities construction and renovation to enhance our educational environment.

I am especially proud that our iFALCON program was recognized by the Chancellor’s Office with the 2011 Student Success Award for demonstrating significant progress toward achieving student equity goals and success for all students. This award acknowledges the college’s continued efforts to support our students in taking ownership of their education. We invite you to take advantage of your time here – embrace it and make it your own.

I wish you the best in your academic and vocational journey, both at Cerritos College and beyond. I look forward to meeting you on campus!

Sincerely,

Dr. Linda L. Lacy
President/Superintendent



CERRITOS COMMUNITY COLLEGE DISTRICT ADMINISTRATION

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Vice President of Academic Affairs/Assistant Superintendent
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SERVING THE COMMUNITIES OF

Artesia, Bellflower, Cerritos, Downey, Hawaiian Gardens, La Mirada, Norwalk

AND PORTIONS OF

Bell Gardens, Lakewood, Long Beach, Santa Fe Springs, South Gate



**This information is available on the Internet at
www.cerritos.edu.**

In accordance with the Americans with Disabilities Act, this information is available in an alternate format by calling (562) 860-2451, Ext. 2333.



**CATALOG
AND ANNOUNCEMENT OF COURSES
ACADEMIC YEAR 2012-2013**

**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

A MEMBER OF:

Academic Senate for California Community Colleges
California Community College Trustees
Community College League of California

Disclaimer: Cerritos College has made reasonable efforts to ensure the accuracy of the information contained in the College Catalog at the time of annual publication. The College reserves the right to add to, amend, or repeal any of the rules, regulations, policies and procedures, or any other content, consistent with applicable regulations and laws. Content is subject to change without notice by the administration for reasons of student enrollment, level of financial support, or for any other reason at the discretion of the College. The College Catalog does not constitute a contract or the terms of a contract. The College Catalog is not intended to promulgate all policies, procedures, rules, and regulations of partner organizations, transfer institutions, the College, or the Cerritos Community College District. Students are advised to consult the online version of this catalog and to contact Counseling Services or the applicable administrative office for additional information.



OPEN COURSES

All courses, course sections, and classes of the College shall be open for enrollment to any person who has been admitted to the College. Enrollment shall be limited to students meeting properly validated prerequisites and co-requisites. Exemptions for state or federal statutes or regulations shall be established and the President/ Superintendent shall establish procedures to establish exemptions for other practical considerations. (Board Policy 5052)

ACADEMIC FREEDOM

Cerritos College serves the common good by expanding the boundaries of knowledge and transmitting it imaginatively, preparing students for occupations and preparing them to live successfully in a free society. The fulfillment of this function necessarily rests on the preservation of academic freedom which protects the rights of teachers to teach and students to learn.

The exercise of academic freedom is necessary if society is to receive the benefits of honest intellectual search and unbiased transmittal of knowledge. Cerritos College scholars must be free from pressures or demands which restrict their intellectual searches. The transmittal of knowledge at Cerritos College shall not be impeded by special interests, conflicting public opinion, or unpopularity. Cerritos College shall avoid a climate of education in which either students or faculty dare not assert their ideas for fear of reprisal. At the same time, Cerritos College faculty and students have a responsibility, under the guidelines of academic freedom, to engage in teaching and learning that honors and respects divergent viewpoints that are grounded in cultures of reason, logic, evidence, responsible scholarship, and creativity. (Board Policy 4030)

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2012-2013 ACADEMIC CALENDAR*

FALL SEMESTER 2012

Instruction Begins August 20, 2012
Final Examinations..... December 15-21, 2012
Fall Semester Ends December 21, 2012

SPRING SEMESTER 2013

Instruction Begins January 14, 2013
Final Examinations..... May 18-24, 2013
Commencement May 11, 2013
Spring Semester Ends May 24, 2013

HOLIDAYS (The College will be closed)

Independence Day July 4, 2012
Labor Day..... September 3, 2012
Veterans Day Observance November 12, 2012
Thanksgiving Holiday November 22-25, 2012
Winter Holiday December 24, 2012-January 1, 2013
Dr. Martin Luther King, Jr. Birthday Observance January 21, 2013
Abraham Lincoln Birthday Observance February 15, 2013
George Washington Birthday Observance February 18, 2013
Spring Recess Friday March 29, 2013
Memorial Day May 27, 2013

RECESS

Semester Break December 24, 2012 – January 13, 2013
Spring Recess..... March 25-31, 2013

**This calendar is subject to change. The college offers many short-term classes starting at various times throughout the year. 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 Clery Act. This report includes statistics for the previous three 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, Ext. 3202. This report is also available on the college website at www.cerritos.edu/securityreport.

Cerritos College Catalog

WHOM TO CONTACT

Telephone: (562) 860-2451 or (562) 467-5000

ADMINISTRATIVE OFFICES

President/Superintendent	2204
Academic Affairs	2218
Business Services	2241
Human Resources	2284
Student Services	2236

EXT

AREAS OF INTEREST

EXT

Facilities	2307/2309
Faculty Senate	2217
Financial Aid	2397
First-Year Experience	2782
Fiscal Services	2261
Foster & Kinship Care Education	2578
Foundation	(562) 467-5053
Information Technology Help Desk	(562) 467-5266 & 2166
International Student Center	2133
Job Placement (Students)	2366
Language Success Center	7891
Learning Communities	2782
Library	2430
Lost & Found	2325
Mail Room	2201
Math Success Center	7891
Media Services	7890
Mental Health Worker Program	2778
Music Office	2629
Older Wiser Learner (OWL)	(562) 467-5098
Parking	2326
Pathway Programs	2484
Payroll	2261
Police Department	2325
Project HOPE	2487
Public Affairs	2285
Publications (Copy Services)	2290
Purchasing	2243
Radio Station, WPMD 1700AM	2626
Reading Center	7891
Re-entry Resource Center	2362
Research & Planning	2192
Safety Escort	3076
Scholars' Honors Program	2728
School Relations	2129
Sports Information	2896
Staff Development	2796
Student Activities Office	2475
Clubs & Organizations	2473
Judicial Affairs	2471
Student Activities Center	2479
Student Body President	2477
Student Body Vice President	2478
Student Government	2475
Student I.D. Center	2480
Student Health Services	2321
Success Center	7891
Talon Marks (Student Newspaper)	2618
Teacher TRAC	2212
Theatre Office	2638
Transfer Center	2154
Veterans' Education Office	3716
Veterans' Resource Center	3716

DIVISIONS

Business, Humanities & Social Sciences	2715
Counseling	2231
Fine Arts & Communications	2600
Health Occupations	2550
Health, Physical Education, Dance & Athletics	2861
Liberal Arts	2858
Library & Learning Resource Center	2412
Science, Engineering & Mathematics	2660
Student Success	7888
Technology	2900

EXT

AREAS OF INTEREST

Accounting	2261
Admissions, Records & Services	2211
Fees (Students)	2211
Refunds (Students)	2211
Academic Probation	2231
Adult Education/Diversity Programs	(562) 467-5098
Advanced Transportation Technology	2912
Art Gallery	2612
Assessment Testing	2599
Athletic Department	2862
Athletic Training Center	2282/2284
Fitness Lab	2883
Weight Training Room	2885
Bookstore	2450
Box Office (Burnight Center)	(562) 467-5058
CalWORKs	2356
Career Center	2369
Career Services	2356
Center for Teaching Excellence	7889
Child Development Center	2583
College Activity Calendar (Civic Center)	2532
Communication Center	2200
Community Education	(562) 467-5050
Community Relations	2798
Cosmetology Department	2950
Counseling Services	2231
Culinary Arts	2456
Disabled Student Programs & Services	2333
Distance Education	2796
Economic Development	2511
EMERGENCY	911
Extended Opportunity Programs & Services (EOPS)	2398

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 Vice President of Academic Affairs/
 Assistant Superintendent Dr. JoAnna Schilling
 Vice President of Business Services/
 Assistant Superintendent Mr. David El Fattal
 Vice President of Human Resources/
 Assistant Superintendent Dr. Mary Anne Gulate
 Vice President of Student Services/
 Assistant Superintendent Dr. Stephen B. Johnson

ACADEMIC AFFAIRS

Dean of Academic Affairs Mr. Rick Miranda
 Dean of the Library, Special Programs & Services . . . Mr. Carl Bengston
 Instructional Dean of Business, Humanities &
 Social Sciences Ms. Rachel Mason
 Interim Instructional Dean of Fine Arts &
 Communications Dr. Gary Pritchard
 Instructional Dean of Health Occupations Ms. Sandra Marks
 Instructional Dean of HPED/Athletics Dr. Daniel Smith
 Instructional Dean of Liberal Arts Mr. David Fabish
 Instructional Dean of Science, Engineering &
 Mathematics Dr. Carolyn Chambers
 Instructional Dean of Technology Dr. Yannick Real
 Director of Adult Education/Diversity Programs . . Ms. Graciela Vasquez
 Director of Child Development Center Ms. Debra Ward
 Director of Community Education Dr. Patricia Robbins Smith
 Director of Pathway Programs/Project HOPE . . . Ms. Maggie Cordero
 Director of Research & Planning Ms. Kay Nguyen

BUSINESS SERVICES

Director of Fiscal Services Mr. Noorali Delawalla
 Director of Information Technology Ms. Lee Krichmar
 Director of Physical Plant & Construction Services . . Mr. David Moore
 Director of Purchasing Mr. Mark Logan
 Accounting Manager Mr. Shawn Jones
 Budget Manager Ms. R. Suzie Payne
 Facilities Manager Mr. Thomas Richey
 Manager Information Technology Mr. Patrick O'Donnell
 Operations Manager Mr. Arcadio Avila
 Payroll Manager Ms. Deanna Hart
 PeopleSoft Database Administrator Ms. Maria Mendez
 PeopleSoft Database Administrator Mr. Michael Salazar

STUDENT SERVICES

Dean of Admissions, Records & Services Ms. Stephanie Murguia
 Dean of Counseling Services Dr. Renée De Long Chomiak
 Dean of Disabled Student Programs & Services . . . Dr. Lucinda Aborn
 Dean of Student Support Services Ms. Kim Westby
 Associate Dean of Student Health, Wellness &
 Veterans Services Ms. Nancy Montgomery
 Chief of Campus Police Mr. Richard Bukowiecki
 Captain of Campus Police Services Vacant
 Director of CalWORKs Services Ms. Norma Rodriguez
 Director of Career and Assessment Services Ms. Theresa Lopez
 Director of Student Activities Ms. Holly Bogdanovich
 EOPS Assistant Director Ms. Yvette Tafoya

HUMAN RESOURCES

Director of Human Resources &
 Risk Management Dr. Adriana Flores-Church
 Director of Employment, Diversity &
 Legal Services Ms. Cynthia Convey

FOUNDATION

Executive Director of Foundation &
 Community Advancement Mr. Steven Richardson
 Director of Advanced Transportation
 Technologies Project Ms. Jannet Malig
 Director of Community Advancement Ms. Bellegran Gomez

PUBLIC AFFAIRS

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

STUDENT SUCCESS

Dean of Academic Success &
 Institutional Effectiveness Dr. Bryan Reece

FACULTY SENATE

Faculty Senate President Mr. Robert Chester

CERRITOS COLLEGE FACULTY FEDERATION – AFT

CCFF-AFT President Dr. Solomon Namala

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. Cerritos College ranks third in California and sixth in the nation among Hispanic-serving community colleges for the number of associate's degrees granted to Hispanic students. 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.

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.

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.

A local bond act was passed by District voters in 2004 providing the college with \$210 million for the transformation of the campus. Voter confidence in the college was high as the college demonstrated the need for new buildings and facilities for the next fifty years of service to the region. Construction of the new science building was completed. Currently, new projects under way include a new classroom building and remodeled and new automotive technology buildings. Planning continues for additional buildings on campus including the replacement of the Burnight Center.

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.

Northwood University, with campuses in Florida, Michigan, and Texas, joined Cerritos College in 2006 to offer a Bachelor of Business Administration degree in either Management or Automotive Marketing/Management. Students are able to complete their first three years of college courses at Cerritos College and then take their fourth year of coursework with Northwood University on the Cerritos College campus. This unique partnership provides a direct path for students to earn their higher degrees with a nationally recognized and accredited university. Northwood University, with over 33,000 graduates, celebrated its 50th anniversary in 2009.



VALUES

We are guided by our core values of:

- supporting and promoting Student Success;
- achieving Excellence/Quality in teaching, learning, service and in college processes;
- supporting Innovation and Creativity to enhance and enrich learning and services;
- celebrating Diversity in people, philosophies, cultures, beliefs, programs and learning environments;
- promoting respect and trust in all People be they students, community members and employees;
- fostering Integrity as the foundation for all that we do;
- developing, nurturing and supporting Partnerships with our educational, business and industry colleagues;
- planning and supporting Comprehensiveness in our curricular offerings; and supporting Inclusiveness of individual, campus and community viewpoints in collaborative decision-making processes.

MISSION

With student learning as the paramount destination, Cerritos College guides students with the map and the means to make their educational aspirations a reality. The college takes pride in offering open access education for associate Degrees, transfer, career technical training, basic skills, and lifelong learning. Creating career pathways and opportunities for self-enrichment that benefit the economic vitality of its unique, multicultural community, Cerritos College values diversity and employs learning programs and student services that underscore student success. Faculty, staff, administrators, and students partner to promote relevance in today's global community by nurturing intellectual curiosity and applauding academic excellence.



VISION

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



EDUCATIONAL PHILOSOPHY

Cerritos College embraces community, 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 all of our learners. In educating, we consider the learner's cognitive growth and 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 needs, and for the future. We believe that the purpose of education is to cultivate critical thinking skills and enhance the quality of life.

COMMITMENT

The District provides a technologically advanced educational community in which students pursue a variety of educational goals: attainment of an associate degree, transfer to a four-year university, career/technical degree or certificate, or job skills. Achievement of these goals is strongly supported with instruction in basic skills as well as with student and instructional support services. Beyond these college credit programs and services, Cerritos College actively enriches the surrounding community through its varied community education programs.



ACADEMIC INFORMATION

Admission to the College

Information is also available in Spanish. See "Información en Español" in the Table of Contents.

Información en español también está disponible. Busque donde diga "Información en Español" en el índice de contenido.

ADMISSION

Admission to Cerritos College is open to any high school graduate or equivalent. Students who are 18 years and older and do not possess a high school diploma or equivalent, may still attend provided evidence of being able to benefit from instruction can be provided. These students may satisfy the ability to benefit requirement by receiving a passing score on the numerical, reading, and/or writing exam, also known as the Ability to Benefit (ATB) exam.

Cerritos College does not discriminate in educational and employment opportunities on the basis of national origin, religion, age, gender, gender identity, gender expression, race, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics, or any other status protected by law in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.

RESIDENCY

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 whose legal residence is within California is eligible to attend Cerritos College. 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.

Further inquiries may be directed to the Admissions and Records Office at (562) 860-2451, Ext. 2211, or the Cerritos College website at www.cerritos.edu/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, under penalty of perjury, 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 the admission application, the Admissions and Records Office will issue a student identification number and enrollment appointment. A student identification number is necessary to complete the matriculation process: assessment testing, counseling appointment, and enrollment. Additionally, the student identification number is necessary when utilizing MyCerritos as well as other student services.

TRANSCRIPTS

It may be necessary to submit official 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.

ADMISSION 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. The high school principal or designee must recommend and give consent with signature on the Special Admit Minor Form that the student would benefit from college instruction.
2. A parent/guardian must approve the student's participation and give consent by signing the Special Admit Minor Form. Signature of the parent/guardian also acknowledges that the student will conform to all College policies and procedures.

Academic Eligibility

- Students planning to enroll in degree appropriate courses must have a cumulative high school grade point average of 2.0 or higher 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 who require accommodations due to a disability should make arrangements through their K-12 school district, in consultation with the Disabled Student Programs and Services (DSP&S) office at Cerritos College. Please call (562) 860-2451, Ext. 2335, for assistance.

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.
- 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. The school principal or designee must recommend and give consent with signature on the Special Admit Minor Form that the student would benefit from college instruction.
2. A parent/guardian must approve the student's participation and give consent by signing the Special Admit Minor Form. Signature of the 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 following criteria:

Academic Eligibility

- Students must have a cumulative school grade point average of 2.5 or higher, 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 who require accommodations due to a disability should make arrangements through their K-12 school district, in consultation with the Disabled Student Programs and Services (DSP&S) office at Cerritos College. Please call (562) 860-2451, Ext. 2335, for assistance.

Limitations on Enrollment

- Students in grades K-10 may be permitted to enroll in up to 4 units. Exceptions may be made, subject to consideration and approval by the Dean of Admissions, Records and Services. Enrollment in courses is based on space availability; and College instructor signature is required prior to enrollment.
- 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 Special Admit 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.

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 the 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 Admissions, Records and Services 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 enroll in the college academic program. The International Student Center provides assistance to international students with admissions, counseling, educational support and cultural adjustment while pursuing

their academic goals. Assistance is available for international students with the United States Citizenship and Immigration Services (USCIS) under the Department of Homeland Security and other U.S. and foreign governmental agencies while in approved, authorized attendance status at Cerritos College. Interested students with other visa types (e.g., B-2, H-2, F-2, H-4, etc.) are encouraged and provided assistance to change to F-1 status through the International Student Center. **F-2 students attending high school should apply for F-1 visa status at least 3-4 months before graduating and applying to Cerritos College.** **Mandatory** medical insurance is required for all F-1 students attending Cerritos College. For information regarding International Students at Cerritos College, please visit the website at www.cerritos.edu/isc or call us at (562) 860-2451, Ext. 2133.

International Student documentation required:

- International Student Application
- Fee of \$50 for new students (fee of \$35 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 500 or higher paper and pencil; 173 or higher computerized; 61 or higher 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)

Intensive English Program

Cerritos College is proud to present an Intensive English Program. The Intensive English Program offers students the opportunity to acquire and improve their English skills, while providing opportunities for immersion in the diverse cultures found in the United States. Admission, enrollment, and information regarding the Intensive English Program should be directed to the Cerritos College International Student Center. Please visit our website at <http://cms.cerritos.edu/isc/intensive-english-program> or call (562) 860-2451, Ext. 1754.

Cost: Contact the Intensive English Program for complete cost information.

Intensive English Program documentation required:

- International Student Application
- Fee of \$50 for new students (fee of \$35 for readmit students)
- Statement of Support (notarized)
- Bank Certification (verification on bank letterhead signed by a bank official showing \$12,900 USD or more available to the student or equivalent.)
- TB exam results
- Transcripts (proof of high school graduation)
- 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)

SEVIS Fee (Form I-901): Once a new initial I-20 is issued, a Form I-901 along with a payment of \$200 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: dtilahun@cerritos.edu
www.cerritos.edu/isc
Phone: (562) 860-2451, Ext. 2133
Fax: (562) 467-5086

Expenses

Students are expected to furnish all textbooks, supplies, materials, equipment, and uniforms as needed for instruction. The cost of these items will depend upon the number or types of classes taken. Textbooks, supplies, and materials are sold in the college bookstore. Additional fees noted below must be paid at time of enrollment.

STUDENT FEES

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

1. Enrollment fees for the community college student are \$46 per unit. **FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE DUE TO STATE LEGISLATION.**
2. Students who are non-residents of California or International Students, with or without F-1 visas, will be assessed \$208 per unit (\$179 per unit non-resident tuition and a \$29 per unit capital outlay fee) in addition to the \$46 per unit enrollment fee above. 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 \$16.00 per semester, \$13.00 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 student parking for automobiles is \$35.00 per semester and \$20.00 for summer session. Mopeds and motorcycles may use designated areas at no charge. A daily permit may be purchased for \$2.00 from the yellow dispensers located in the student parking lots.
6. Materials fees are listed with courses in the class schedule. Please note that failure to pay these fees may result in withdrawal from courses for lack of payment.

Students are required to pay all fees at the time of enrollment. Students adding their names to wait lists will be charged the applicable enrollment fees, tuition, and applicable lab/materials fees. Students who do not pay fees and drop classes after the refund date are still responsible for all fees. **Board of Governors Fee Waiver (BOGFW) students' course enrollment and student activity fees are waived; however**

all other fees, including but not limited to the Student Health fee and applicable lab/materials fees, are due and payable at the time of enrollment. Payments for the parking, student activities, and student health fees may be subject to additional considerations. The parking fee is required to park a vehicle on campus. It is reduced to \$20 for BOG Fee Waiver recipients. The student activities fee is subject to student waiver. Information is available from the Office of Student Activities located in the Student Center. The student health fee may be waived with documentation from the student's spiritual leader that the student relies on prayer for healing.

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. Classes must be dropped by the appropriate deadline for the session in order to be eligible for a refund. Stated deadlines are not adjusted due to late enrollment.

A student is eligible for a refund if: a) classes are dropped by the required deadline; b) the program change is the result of action taken by the college 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 withdraws due to military orders.

Eligible students may file a petition with the district requesting refund of their enrollment fee(s). A refund will not be processed if academic credit has been awarded for the class. Refunds are not automatically processed.

To request a refund, a student must come to the Admissions and Records Office and submit a refund request form. The refund request form is also available online and can be mailed to the Admissions and Records Office. Approved refunds will be mailed in approximately four to six weeks. Be sure your current mailing address is on file with the college.

A check is the only form of payment that Cerritos College uses to issue refunds. If a payment is made by credit card for any registration transaction, and you drop any or all of your classes within the required refund period, we will NOT credit your credit card account. All refund checks are made payable to the student.

Refunds are made pursuant to Title 5, Section 58501 or 58501.1.

CREDITS/REFUNDS

Credits

Enrollment Fee, Non-Resident Tuition, Capital Outlay and Parking Fees¹ will be credited if the official drop has occurred within the appropriate deadline* for session or semester. This is in accordance with the Refund of Enrollment Fee regulation, Title 5, 58508. There are no exceptions.

Student Health and Student Activity Fees² will be credited only if all classes within the semester have been officially dropped within the appropriate deadline* for the semester. There are no exceptions.

* *Deadlines for fee credit are defined as the first two weeks of full semester length classes or 10% of the number of class meetings for short term classes.*

¹ *Parking Permit for the semester must be surrendered at the time of refund request.*

² *Student Activity sticker for the semester must be surrendered at the time of refund request. No refund will be given if sticker is marked or used.*

Refunds

A refund request form must be completed to receive credit funds on account. The Refund Request Form is available online at the Admissions webpage under FORMS or in the Admissions and Records Office.

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 \$25.00 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 to pay a financial obligation will result in an administrative withholding of grades, transcripts, diplomas, or enrollment privileges or any combination thereof. The item or items being withheld shall be released when the financial obligation has been met. (California Code of Regulations, Title 5, Section 59410)

Matriculation

Information is also available in Spanish. See "Información en Español" in the Table of Contents.

Información en español también está disponible. Busque donde diga "Información en Español" en el índice de contenido.

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 process shared between the college and the student.

The college agrees to provide:

- An admissions application.
- An orientation to the College's programs and services.
- Assessment in English, math, and reading.
- 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.
- Complete new student orientation, if new to college.
- Declare an educational goal before or when 15 units have been completed.
- Attend class.
- Work diligently to complete class assignments.
- Demonstrate an effort to attain an educational goal.

All first time, new-to-college students are required to participate in matriculation activities; submit an application and complete assessment and orientation. Students who have completed an associate degree or higher at an accredited post-secondary institution are exempt from the process. 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 the Cerritos College admissions application and submit to the Admissions and Records Office, located in the Administration Building. Online applications may be submitted at www.cerritos.edu by selecting "Apply Online". Transcripts from other institutions will be required to prove prerequisite eligibility which is strictly enforced at enrollment.

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 A.A. 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, and values.

DO I NEED TO TAKE AN ASSESSMENT/PLACEMENT TEST?

First time, new-to-college students are required to complete assessment. Students planning to enroll in a math, English, or reading class, or planning to earn an A.A. degree, must complete assessment tests prior to enrollment. A student number and photo ID are required to take a test. All tests are computerized

ASSESSMENT/PLACEMENT TEST EXEMPTIONS

Students who already possess an A.A. 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 10 working days prior to their enrollment appointment. Additionally, submit requisite clearance forms to meet prerequisites.

INDIVIDUAL ASSESSMENT EXCEPTIONS FOR COURSE PLACEMENT

English

If you have completed English 100 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. Please submit proof of completion (grade reports or transcripts) to the Admissions and Records office prior to enrollment.

Math

If you have completed Algebra I or higher with a "B" grade or higher at a high school or an accredited college, please submit proof of completion (grade reports or transcripts) to the Admissions and Records office prior to enrollment. You may be eligible for course placement at Math 80 or below without taking an assessment test. However, if you are seeking course placement at Math 114 or higher, you will be required to take the math assessment test, which consists of multiple components.

Students may be placed in advanced math courses based on "B" grade or higher in two consecutive semesters of recently completed high school algebra courses or comparable college 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 A.A. 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.

Please note: *The exceptions listed are assessment options for course 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.*

ACCOMMODATION FOR ENGLISH AS A SECOND LANGUAGE

Students planning to take ESL (English as a Second Language) courses need to take the CELSA placement exam. Please call the Assessment Center at (562) 860-2451, Ext. 2599, for test dates and times or to schedule an appointment.

MAY I RETAKE A TEST?

Students may repeat any assessment test one time AFTER an 18-week waiting period from the original test date.

ASSESSMENT/PLACEMENT TESTING SCHEDULE

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

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.

ORIENTATION

After completing assessment testing, complete an orientation and counseling session. Orientation is available in a variety of formats: online, workshop, online course (Counseling 50), on campus workshop, and on campus course (Counseling 50). To sign up for an on campus workshop, visit the appointment desk in the Counseling Office or make an appointment by calling (562) 860-2451, Ext. 2231.

Workshops include campus information and preparation for enrollment.

Students should complete assessment testing PRIOR to attending an orientation workshop.

Orientation and Educational Planning classes (Counseling 50) are available throughout the semester. Online orientation is available on the college website at www.cerritos.edu/counseling.

EXEMPTIONS: Re-admit and transfer students, and some additional categories of students. Contact the Counseling Office for more information on exceptions.

COUNSELING

All new students are required to complete an orientation prior to enrollment. Students who are on academic or progress probation will be limited in the number of units they may take each semester based upon their GPA and course completion rate. 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 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 academic success. Therefore, students will find courses which have prerequisites, corequisites and/or recommendations in the course descriptions. This is the case when a specific body of knowledge and/or skill(s) must be learned or demonstrated before the student can be expected to successfully progress to the next level course. For example, ENGL 52 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 that has not been met. Prerequisites are checked at the time of enrollment (Auto-enroll and Instructor adds). Prerequisites are not checked when classes are added to shopping cart, but are enforced before completion of enrollment.

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 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 cms.cerritos.edu/admissions-and-records/online-forms.

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, a test score, or other requirement that demonstrates 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 PROCEDURE FOR STUDENTS?

A prerequisite may be challenged by students who have presented the appropriate reasons. It is the student's responsibility to provide information to support the challenge. The prerequisite challenge must be filed and resolved prior to the student's enrollment into the course. A Requisite Challenge Form can be obtained from the Admissions and Records Office, Counseling Center, or downloaded from cms.cerritos.edu/admissions-and-records/online-forms.

Students may challenge a prerequisite using the following procedure:

1. Complete the Requisite Challenge form.
2. Select one of the five choices listed on the form:
 - A. The prerequisite is discriminatory or applied in a discriminatory manner.
 - B. The student can demonstrate knowledge equivalent to the prerequisite.
 - C. The student progress is unduly delayed because the prerequisite course is not reasonably available.
 - D. The prerequisite has not been established following the district's policy.
 - E. The prerequisite has not been established in accord with Title 5.

3. Submit the completed form to the Academic Records and Standards Committee for approval or denial of request. Please allow at least ten business days for a response.
4. If the prerequisite challenge is approved, the student will need to enroll in the course in the Admissions and Records Office in person. MyCerritos will not recognize the approved form. Please note: A challenged requisite will not be deemed as a cleared requisite, therefore it will not appear on the transcript nor will it clear a like requisite in the future.
5. If the prerequisite challenge is denied, the student will need to complete the clearance process or course listed as the official requisite. There is no appeal process.



Enrollment Information

Information is also available in Spanish. See "Información en Español" in the Table of Contents.

Información en español también está disponible. Busque donde diga "Información en Español" en el índice de contenido.

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 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 four-year institutions.

Although the use of counseling services is on a voluntary basis, all entering first time, new-to-college students, F-1 VISA students, and some 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 standby counseling is also available. General academic counseling hours and information are available online at www.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 standby counseling is available during this time. Contact the Counseling Department for hours scheduled for standby 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.

AUDITING COURSES

Auditing courses is permitted at Cerritos College. An audit student is a student who attends a course or courses for no credit or notation on an official transcript. Auditing may be available, pending 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.

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. Signature of both the instructor and Division Dean are required.
3. With the instructor's and Division Dean's signed permission, a student may submit the audit form to the Admissions and Records Office anytime during the semester after the first class meeting.
4. An auditor may be allowed to elect credit in lieu of audit prior to the 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. No refund of audit fees will be available 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. No refund of credit fees will be available after the 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. If a course closes after an auditor has been admitted, the auditor may be asked to withdraw to make room for a credit student. Instructor discretion is strongly recommended.
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.

For additional information regarding auditing, students may make inquiries at the Counseling Office, Office of Academic Affairs, Division Office, or the Admissions and Records Office. Audit forms may be obtained in the Admissions and Records Office.

ADD PROCEDURES

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

1. Classes may be added via MyCerritos, Student Center (<http://my.cerritos.edu>).
2. To add a closed class, go to class on the first day and time that it meets; be on time. Respectfully request of the instructor to be added to the class. If the instructor approves, an electronic enrollment will be submitted on your behalf to Admissions and Records. Please note that prerequisites, holds/service indicators (SI), conflicts, and illegal course repetition will be checked. Fee payment deadlines are published in the current schedule of classes. Please refer to MyCerritos (<http://my.cerritos.edu>) or the current schedule of classes for information regarding being dropped from all classes and holds (SI) for lack of payment. Please check your student account via MyCerritos or in the Admissions and Records Office. All enrollments must be completed by the published add deadlines.
3. Adding a class may be prevented due to holds or unauthorized course repetition (see Repetition of Courses).

DROP PROCEDURES

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 withdraw themselves.

It is strongly advised 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.

Classes may be dropped via MyCerritos, Student Center (<http://my.cerritos.edu>). Be mindful of deadline dates for refunds and posting of "W's" to transcripts. See the "Calendar of Important Dates" in the schedule of classes for specific deadlines. Be sure to verify the drop with a printed receipt.

Deadlines: 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 After the Drop Deadline

A student 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. Contact the Dean of Admissions, Records and Services for further information.

WAIT LIST

Cerritos College utilizes a "paid" wait list. What this means is that once you have added your name to the wait list, you must pay all applicable fees for that class. Additionally, "auto-enroll" will be in operation. Auto-enroll will automatically enroll students in order from the wait list to the official roster when space becomes available. Each student is limited to a maximum of 10 wait-listed units. Auto-enroll from a wait list will not occur if:

1. Student has a hold (service indicator) on their account.
2. The class requisite has not been met.
3. Unauthorized course repetition would occur.
4. There is a class time conflict. Students may not be enrolled in two classes that meet at the same time.
5. If student is enrolled in a class AND on a wait list for the same course (i.e., enrolled in SOC 101 and #1 on the wait list for SOC 101 at another time) he/she will lose a seat when "auto-enroll" tries to move from the wait list to the official roster due to "Multiple Enrollment".

Auto-enrollment will continue through the Friday before classes begin. Attendance at the first class meeting is required in order to enroll or remain on the wait list. Failure to attend class DOES NOT create an automatic drop or refund. If you do not want your wait-listed classes, please drop them to avoid a substandard grade and forfeiture of fees.

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 approved units, throughout season of sport; not less than 24 approved units between seasons of sport.

REPETITION OF COURSES

At Cerritos College, previous course enrollment is reviewed electronically for prior enrollment attempts. Most courses have repeatability limitations. Cerritos College offers some courses that have designated repeatability. Please review the list below for maximum repeat units available.

Students may repeat a course in which a substandard grade (D, F, NP, FW) or "W" in any combination has been received one time without filing a petition. Prior to a second repeat (third enrollment) of a course, students must file a petition with, and receive approval from, the Academic Records and Standards Committee. Upon completion of a repeated course, the most recent grade earned will be computed in the cumulative grade point average and the student's academic record so annotated.

When a student repeats a class to alleviate substandard academic work, the previous grade and credit shall be disregarded in the computation of grade point averages, but shall not be deleted from the student's permanent record. Courses that are repeated shall be recorded on the student's permanent academic record using an appropriate annotation. Annotating the permanent academic record shall be done in a manner so that all work remains legible, insuring a true and complete academic history.

Students may use an equivalent course from an accredited college or university to replace a Cerritos College course in which a substandard grade was recorded, if earned subsequent to the substandard grade at Cerritos College. The student must petition the Academic Records and Standards Committee to record the change. The College may honor the prior course repetition actions of other accredited colleges and universities in determining acceptance of credits, subject to student petition to, and approval by, the Academic Records and Standards Committee.

Examples of Exceptions for Consideration of Course Repetition Limitations

An Academic Records and Standards petition must be filed for official consideration of certain repeat requests. Contact the Admissions and Records Office for specific directions.

1. Student received an "MW" (Military Withdrawal).
2. Student's previous grades are a result of documented circumstances beyond his/her control.
3. Cooperative work experience courses, subject to stated maximums, as provided in the College Administrative Procedures.
4. Certain activity or skill building courses, subject to stated maximums, as provided in College Administrative Procedures.
5. Certain classes for students with disabilities, subject to stated qualifications, as provided in College Administrative Procedures.
6. Repetition necessary for legally mandated training. Such courses may be repeated any number of times, regardless of

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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.

7. After a significant lapse of time, a student may repeat a course in which a grade of "C" or better was received.

Please review the following list of courses for maximum repeat units available.

COURSE	DESCRIPTION	MAX UNITS	TIMES
AB 56	Non-Structural Automotive Welding	2.0	2
AB 57	Structural Automotive Welding	2.0	2
AB 58L	Collision Repair Lab	1.5	4
AB 61L	Automotive Refinishing Lab	1.5	4
AB 62	Overall and Multi-Coat Refinishing	4.5	2
AB 63	Production Refinishing	4.5	2
AB 65	Mix and Adjusting Color	2.0	3
AB 66	Lettering, Striping & Design	2.5	2
AB 67	Automotive Custom Painting	2.0	2
AB 68L	Refinishing Lab	1.5	4
AB 73/74	Auto Collision Rep Occ Work Experience	3-4	4
AB 79L	Automotive Fabrication Lab	1.5	4
AB 80	Autobody Customer Service	2.0	2
AB 83A	Computerized Damage Estimating-Audatex	1.5	2
AB 83P	Computerized Damage Estimating-Pathways	1.5	2
AB 83U	Computerized Damage Estimating-Ultramate	1.5	2
AB 88	Estimating and Management Update	3.0	4
ACCT 1T	Accounting Microcomputer Tutorial	.5	4
ACCT 2T	Accounting Tutorial	.5	4
ACCT 171	Accounting Occ Work Experience	1.0	3
ACCT 172	Accounting Occ Work Experience	2.0	3
ACCT 173/174	Accounting Occ Work Experience	3-4	4
ACCT 231	Current Topics in Payroll	1.5	2
AJ 173	Administration of Justice Occ Work Experience	3.0	4
ARCH 43/44	Arch Drawing Occ Work Experience	3-4	4
ARCH 123	Intro to 2D Computer Aided Drafting	4.0	2
ARCH 213	Intro to 3D Computer Aided Drafting	4.0	2
ARCH 221	AutoCAD Architectural	4.0	3
ARCH 223	Revit Architectural	4.0	2
ART 50	Chinese Brush Painting	3.0	2
ART 115L	Printmaking Lab	1.0	4
ART 117	Intermediate Printmaking	3.0	2
ART 136	Painting for Art Majors	3.0	2
ART 144	Jewelry/Metalsmithing	3.0	2
ART 145	Jewelry Casting & Molds	3.0	2
ART 151	Ceramics-Beginning Wheelthrowing	3.0	2
ART 152	Ceramics-Beginning Handbuilding	3.0	2
ART 153	Ceramics-Intermediate Wheelthrowing	3.0	2
ART 154	Ceramics-Intermediate Handbuilding	3.0	2
ART 155	Beginning Ceramic Sculpture	3.0	2
ART 156L	Ceramics Lab	1.0	4
ART 160	Life Sculpture	3.0	4
ART 163	The Techniques of Sculpture	3.0	2
ART 171	Occupational Work Experience in Art	1.0	4
ART 180	Calligraphy I	3.0	2
ART 181	Calligraphy II	3.0	2
ART 183	Introduction to Illustration	3.0	2
ART 183A	Commercial Brush Lettering	1.0	2

COURSE	DESCRIPTION	MAX UNITS	TIMES
ART 183B	Copperplate Calligraphy	1.0	2
ART 188	Design for Desktop Publishing	3.0	2
ART 189L	Computer Graphics Lab	1.0	4
ART 190	Animation Principles	3.0	2
ART 191A	3D Computer Animation	3.0	2
ART 191B	3D Computer Animation Project	3.0	2
ART 192B	Advanced Photoshop	3.0	2
ART 194	Multimedia Design	3.0	2
ART 194A	Advanced Final Cut Pro	3.0	2
ART 195	3D Modeling for Animation	3.0	2
ART 196	Web Design with Flash and Dreamweaver	3.0	2
ART 197	Digital Painting	3.0	2
ART 198	Motion Graphics	3.0	2
ART 213	Intermediate Life Drawing	3.0	2
ART 214	Special Studies in Life Drawing	3.0	2
ART 217L	Advanced Screenprinting/Advanced Etching Lab	1.0	4
ART 218	Screenprinting	3.0	2
ART 219	Advanced Etching	3.0	2
ART 231	Intermediate Painting	3.0	2
ART 232	Portraiture: Drawing/Painting the Head	3.0	2
ART 237	Life Painting	3.0	2
ART 238	Special Studies in Painting	3.0	2
ART 239	Portrait Painting	3.0	2
ART 246	Jewelry Design Fabrication	3.0	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
ART 287A	Letter Arts	2.0	2
ART 287B	Roman Calligraphy	2.0	3
AUTO 54	Introduction to Electric Vehicles	4.0	2
AUTO 55	Advanced Technology Electric Vehicles	4.0	3
AUTO 73/74	Auto Mech Rep Occ Work Experience	3-4	4
AUTO 120	Automatic Transmission/Transaxles	5.0	2
AUTO 130	Manual Drivetrain and Axles	5.0	2
AUTO 140	Automotive Steering and Suspension	5.0	2
AUTO 150	Automotive Brakes	5.0	2
AUTO 170	Automotive Air Conditioning	4.0	2
AUTO 180	Electronic Engine Management Systems	5.0	2
AUTO 210	Automotive Machine Shop	5.0	2
AUTO 211	High Performance Engines	5.0	2
AUTO 212	Automotive Specialty	2.0	3
AUTO 280	Diagnostic Engine Performance	4.0	2
AUTO 281	Emission Control Systems-1997 Standards	5.0	2
BA 171	Business Administration Occ Work Experience	1.0	3
BA 172	Business Administration Occ Work Experience	2.0	3
BA 173/174	Business Administration Occ Work Experience	3-4	4
BCOT 3T	Business Communications, Word Processing, or Keyboarding Tutorial	.5	4
BCOT 63	Keyboarding Speed/Control Building	1.0	3
BCOT 96	Microsoft PowerPoint	1.5	2
BCOT 97	Microsoft Outlook	1.5	2
BCOT 111	MS Project for Office Professionals	1.5	2

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COURSE	DESCRIPTION	MAX		COURSE	DESCRIPTION	MAX	
		UNITS	TIMES			UNITS	TIMES
BCOT 112	Microsoft Word	3.5	2	CRCC 126	Computerized Shorthand Realtime		
BCOT 113	Microsoft Excel	3.5	2		Practicum II (120-150 wpm)	3.0	3
BCOT 118	Microsoft Access for Office Technology	1.5	2	CRCC 127	Computerized Shorthand Realtime		
BCOT 152	Job Search in the Business Field	1.5	2		Practicum III (140-170 wpm)	3.0	3
BIOL 100	Natural History of So. Calif.	1.0	2	CRCC 128	Computerized Shorthand Realtime		
BIOL 180L	Life Science Preparations	1.0	2		Practicum IV (160-190 wpm)	3.0	4
BIOL 250L	Special Topics in Biology	1.0	4	CRCC 129	Computerized Shorthand Realtime		
CA 43/44	Culinary Arts Occ Work Experience	3-4	2		Practicum V (180-210 wpm)	3.0	4
CA 65	Food Costing	2.0	3	CRCC 137A	Beginning CAT Software	1.0	2
CDEC 173/174	Early Childhood Education Occ Work			CRCC 137B	Intermediate CAT Software	1.0	2
	Experience	3-4	4	CRCC 139	Exploring Career Opportunities in Court		
CDIA 73/74	Educational Paraprofessional Occ Work				Reporting	1.0	2
	Experience	3-4	2	CRCC 141	Computerized Shorthand Theory Review/		
CDIA 99	Educational Paraprofessional Practicum	3.0	2		Skill Development	3.0	2
CDSE 73/74	Special Ed Asst Occ Work Experience	3-4	4	CRCC 141A	Computerized Shorthand Theory Review/		
COUN 20	Self Aware-Edu Readiness	2.0	2		Skill Development A	2.5	2
COUN 36	Family Living for the Disabled Student	1.0	4	CRCC 141B	Computerized Shorthand theory Review/		
COUN 50	Orientation and Educational Planning	.5	4		Skill Development B	2.5	2
COUN 210	Job Search Strategies	1.0	2	CRCC 142	Intermediate Computerized Shorthand	3.0	2
CHEM 250L	Special Topics in Chemistry	1.0	2	CRCC 143	Computerized Shorthand Speed Building I	3.0	2
CIS 5C	Business Computer Information Systems			CRCC 144	Computerized Shorthand Speed Building II	3.0	2
	Database Module	.5	2	CRCC 145	Computerized Shorthand Speed Building III	3.0	3
CIS 58A	PC Operating Systems A+ Certification	3.5	3	CRCC 146	Computerized Shorthand Speed Building		
CIS 58B	PC Core Hardware A+ Certification	3.5	3		(140-170 wpm)	3.0	3
CIS 105B	Microsoft Windows Mobile	3.0	2	CRCC 147	Computerized Shorthand Speed Building		
CIS 152	Programming in Excel in VBA	3.5	3		(160-190 wpm)	3.0	4
CIS 168C	Special Topics in Networking	3.0	2	CRCC 148	Computerized Shorthand Speed Building		
CIS 169A	Special Topics in Security	1.0	2		(180-210 wpm)	3.0	4
CIS 169D	Special Topics in Security	3.5	2	CRCC 149	Computerized Shorthand Speed Building		
CIS 189A	Special Topics in Software Development	1.0	4		(190-225 wpm)	3.0	4
CIS 189B	Special Topics in Software Development	2.0	4	CRCC 152	Introduction to Jury Charge Intermediate		
CIS 189C	Special Topics in Software Development	3.0	4		Computerized Shorthand	3.0	2
CIS 189D	Special Topics in Software Development	3.5	2	CRCC 152X	Introduction to Jury Charge Intermediate		
CIS 202B	Microsoft Project	3.5	3		Computerized Shorthand	4.0	2
CIS 211A*	Special Topics in Database	1.0	4	CRCC 153	Multiple-Voice Colloquy I Computerized		
CIS 211B*	Special Topics in Database	2.0	4		Shorthand Speed Building I	3.0	2
CIS 211C*	Special Topics in Database	3.0	4	CRCC 153X	Multiple-Voice Colloquy I Computerized		
CIS 271	Computer and Information Science Occ				Shorthand Speed Building I	4.0	2
	Work Experience	1.0	3	CRCC 154	Introduction to Congressional Record		
CIS 272	Computer and Information Science Occ				Computerized Shorthand Speed Building II	3.0	2
	Work Experience	2.0	3	CRCC 154X	Introduction to Congressional Record		
CIS 273/274	Computer and Information Science Occ				Computerized Shorthand Speed Building II	4.0	2
	Work Experience	3-4	4	CRCC 155	Multiple-Voice Colloquy II Computerized		
CIS 286	Software Development with C#	3.5	2		Shorthand Speed Building III	3.0	3
CIS 288	Mobile Application Development	3.5	2	CRCC 155X	Multiple-Voice Colloquy II Computerized		
COS 53	Advanced Cosmetology Manipulation	6.5	3		Shorthand Speed Building III	4.0	3
COS 63	Advanced Cosmetology Manipulation	5.0	2	CRCC 156	Jury Voir Dire Procedures Computerized		
COS 70C	Advanced Cosmetology Manipulation	8.0	2		Shorthand Speed Development		
COS 73A	Advanced Cosmetology I	4.0	2		(140-170 wpm)	3.0	3
CRCC 98	Directed Studies	1.0	2	CRCC 156X	Jury Voir Dire Procedures Computerized		
CRCC 119AEF	CAT Dictionary Build	2.5	3		Shorthand Speed Development		
					(140-170 wpm)	4.0	3
CRCC 119BCD	Computer-Aided Transcription	2.5	3	CRCC 157	Congressional Testimony Computerized		
CRCC 125	Computerized Shorthand Realtime				Shorthand Speed Development		
	Practicum I (100-130 wpm)	3.0	2		(160-190 wpm)	3.0	3
				CRCC 157X	Congressional Testimony Computerized		
					Shorthand Speed Development		
					(160-190 wpm)	4.0	3

*Students may take a combination of CIS 211A, CIS 211B, and/or CIS 211C no more than a total of 4 times.

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COURSE	DESCRIPTION	MAX		COURSE	DESCRIPTION	MAX	
		UNITS	TIMES			UNITS	TIMES
CRCC 158	Professional Practices Hearings/Conferences Computerized Shorthand Speed Development (180-210 wpm)	3.0	3	EDT 22	Teleconference Review and Evaluation	1.0	4
CRCC 158X	Professional Practices Hearings/Conferences Computerized Shorthand Speed Development (180-210 wpm)	4.0	3	EDT 23	Teleconference Production	3.0	3
CRCC 159	In Curia/In Camera Procedures Computerized Shorthand Speed Development (190-225 wpm)	3.0	3	EDT 24	Teleconference Portfolio	3.0	3
CRCC 159X	In Curia/In Camera Procedures Computerized Shorthand Speed Development (190-225 wpm)	4.0	3	EDT 30	Fundamentals of Instructional Multi-Media Production	2.0	2
CRCC 162 ABCD	Q and A Speed Building I	3.0	4	EDT 43	Educational Occupation/Work Experience	3.0	2
CRCC 164 ABCD	Q and A Speed Building II	3.0	4	EDT 57	Apple/Claris Works for Educators	1.0	2
CRCC 166 ABCD	Q and A Speed Building III	3.0	4	EDT 67	Inspiration Presentations	1.0	4
CRCC 168 ABCD	Q and A Speed Building IV	3.0	4	EDT 68	Using KidPix	1.0	4
CRCC 169 ABCD	Q and A Speed Building V	3.0	4	EDT 81	Videos for School Use	2.0	2
CRCC 173/174	Court Reporting and Captioning Careers Occ Work Experience	3-4	4	EDT 103	Spreadsheet for Educators	2.0	2
CRCC 185	CSR/RPR Examination Preparation	1.5	3	EDT 104	Word Processing for Educators	2.0	2
CRCC 190A	Captioning Video Introduction	2.0	2	EDT 105	PowerPoint for Educators	2.0	2
CRCC 190B	Captioning Video Laws and Requirements	1.0	2	EDT 106	Access for Educators	2.0	2
CRCC 190C	Captioning Video for the Web and Video Production	2.0	2	ENGL 15	Beginning Writing for Native English Speakers	3.0	2
CRCC 192	Transcription Procedures	2.0	2	ENGL 227	Current Literature	3.0	2
CRCC 193A	Basic Captioning	2.0	2	ENGL 240	Creative Writing	3.0	2
CRCC 193B	Basic Broadcast Captioning	2.0	2	ENGL 241	Screenwriting	3.0	2
DA 1	Dental Radiation Safety Licensing	1.5	2	ESCI 180	Earth Science Materials/Preparation	1.0	2
DANC 105	Introduction to Dance Movement	3.0	4	ESL 7	ESL Beginning Speaking and Listening	1.5	2
DANC 106A	Beginning Ballet	2.0	2	ESL 12	ESL Pronunciation	1.5	2
DANC 106B	Intermediate Ballet	2.0	2	ESL 14	Pronunciation Plus	3.0	2
DANC 107	Ballet Variations	2.0	4	ESL 15	ESL Individualized Communication Skills for Academic Success	.5	4
DANC 108A	Dance, Modern, Beginning	2.0	2	ESL 35	Editing for Advanced Grammar and Syntax	1.5	4
DANC 108B	Dance, Modern, Intermediate	2.0	2	ESL 36	ESL Grammar Review	.5	4
DANC 109	Introduction to Dance Cultures of the World	2.0	4	FILM 101	Motion Picture Production	3.0	2
DANC 110	Commercial Dance	2.0	4	FILM 102	Television Production	3.0	4
DANC 120	Partnering for Dance	2.0	2	FILM 103	Television Commercial and Public Service Announcement Production	3.0	2
DANC 121	Latin Social Dance	2.0	4	FILM 104	Motion Picture and Digital Cinematography	3.0	2
DANC 122	Middle Eastern Dance	2.0	4	FILM 107	Motion Picture Editing	3.0	2
DANC 123	African Dance	2.0	4	FILM 160	Great Film Directors	3.0	2
DANC 124	Hip Hop Dance	2.0	4	FILM 241	Screenwriting	3.0	2
DANC 125	Introduction to Ballroom Dance	2.0	4	FILM 256	Documentary Film & Reality Television Production	3.0	2
DANC 130	Choreography	2.0	4	FILM 271	Music Video Production	3.0	2
DANC 133	Dance Production	2.0	4	FILM 293	Advanced Motion Picture Editing	3.0	2
DANC 134	Dance Performance	2.0	4	FILM 298	Directed Studies	1.0	2
DANC 135	Dance Workshop	2.0	4	FILM 299	Directed Studies	2.0	2
DANC 136	Dance Repertory	2.0	4	GEOL 100	Natural History of So. Calif.	1.0	2
DANC 140	Beginning Jazz Dance	2.0	2	HIST 270	Special Topics in History	3.0	2
DANC 141	Intermediate Jazz Dance	2.0	2	HO 7	Cardiopulmonary Resuscitation	.5	4
DANC 142	Beginning Tap Dance	2.0	2	HO 9	Emergency Medical Technician I	3.0	2
DANC 143	Intermediate Tap Dance	2.0	2	HO 9L	Emergency Medical Technician I Lab	2.0	2
DANC 144	Dance for Musical Theatre	2.0	4	HO 56	Medication Calculations for Nurses	1.0	2
DS 98	Directed Studies	1.0	2	INSR 171	Insurance Occ Work Experience	1.0	4
DS 99	Directed Studies	2.0	2	JOUR 50	Editorial Board	1.0	4
DS 298	Directed Studies	1.0	2	JOUR 103	Newspaper Article Writing	2.0	4
DS 299	Directed Studies	2.0	2	JOUR 105	Newspaper Production	2.0	4
EDT 19	Fundamentals of Teleconferencing	1.0	4	JOUR 106	Talonmarks.com	1.0	4
EDT 20	Teleconferencing for Small Groups	2.0	2	JOUR 107	College Newspaper	3.0	4
EDT 21	Teleconference Telematics	1.0	4	JOUR 120	Internet for Journalists	2.0	4
				JOUR 121	Multimedia Reporting	3.0	2
				JOUR 160	College Magazine Production	1.0	4
				JOUR 170	Broadcast News/Webcasting	1.0	4
				JOUR 171	Work Experience/Journalism	1.0	4
				LAW 1T	Legal-Computer Tutorial	.5	4

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COURSE	DESCRIPTION	MAX		COURSE	DESCRIPTION	MAX	
		UNITS	TIMES			UNITS	TIMES
LAW 171	Legal Occ Work Experience	1.0	3	NRSG 25	Clinical Workshop 1	0.5	3
LAW 172	Legal Occ Work Experience	2.0	3	NRSG 26	Clinical Workshop 2	0.5	3
LAW 173	Legal Occ Work Experience	3.0	3	NRSG 47	Nursing Skills Lab	1.0	4
LAW 174	Legal Occ Work Experience	4.0	4	NRSG 48T	Elective Nursing – Tutorial	.5	4
MA 73/74	Medical Assisting Occ Work Experience	3-4	4	NRSG 80	Nursing Process Documentation	1.0	3
MATH 5	Mathematics Learning Strategies	1.0	3	NRSG 213B	Major Drugs and Nursing Management II	1.0	3
MATH 90A	Training for Tutors of Mathematics I	2.0	2	PHOT 171	Occupational Work Experience in Photography	1.0	4
MATH 90B	Training for Tutors of Mathematics II	2.0	2	PHOT 232	Approaches to Studio Lighting	3.0	2
MFGT 43/44	Manufacturing Tech Occ Work Experience	3-4	4	PHOT 252	Photography of the Landscape	3.0	2
MTT 91L	CNC Machining Laboratory	1.0	4	PE 120	Sedentary Activities for Students with Disabilities	1.0	4
MTT 92L	Mastercam Laboratory	1.0	3	PE 121	Adapted Cardiovascular Exercise	1.0	4
MTT 93L	Virtual Gibbs	1.0	3	PE 122	Adapted Strength Training	1.0	4
MTT 94L	Manual Machining Laboratory	1.0	4	PE 123	Adapted Swimming	1.0	4
MTT 95L	CNC Lathe Machining Laboratory	1.0	3	PE 124	Wheelchair Activities	1.0	4
MUS 112	Elementary Piano I	2.0	2	PE 125	Water Safety Instructor (WSI)	2.0	4
MUS 113	Elementary Piano II	2.0	2	PE 126	Lifeguard Training	2.0	4
MUS 114	Intermediate Piano I	2.0	2	PE 127	Adapted Stretching and Relaxation	1.0	4
MUS 115	Intermediate Piano II	2.0	2	PE 130	Stretching and Relaxation	1.0	4
MUS 116	Voice I	2.0	2	PE 131	Walking for Fitness	1.0	4
MUS 117	Voice II	2.0	2	PE 132A	Low Impact Aerobics	1.5	4
MUS 118	Voice III	2.0	2	PE 132B	Aerobics Activities	1.5	4
MUS 119	Voice IV	2.0	2	PE 133	Step Aerobics	1.5	4
MUS 120	Elementary Guitar I	2.0	2	PE 134	Water Aerobics	1.0	4
MUS 121	Elementary Guitar II	2.0	2	PE 135A	Circuit Weight Training Beginning	1.0	2
MUS 122	Intermediate Guitar I	2.0	2	PE 135B	Circuit Weight Training Intermediate/Advanced	2.0	2
MUS 123	Intermediate Guitar II	2.0	2	PE 136	Indoor Cycling	1.0	4
MUS 124	Concert Band	2.5	4	PE 137	Song Unit	2.0	4
MUS 124A	Beginning Band	2.5	4	PE 138	Yoga	1.0	4
MUS 125	Community Symphonic Band	2.5	4	PE 139	Pilates Conditioning	1.0	4
MUS 125A	Community Band	2.5	4	PE 141	Fitness and Wellness	3.0	2
MUS 126	Pep Band	2.5	4	PE 142	Fitness for Older Adults	2.0	2
MUS 127	Orchestra	2.5	4	PE 143	Personal Fitness Program	1.0	4
MUS 128	Community Orchestra	2.5	4	PE 145	Basic Training and Physical Conditioning	1.0	4
MUS 129	Woodwind Ensemble	1.5	4	PE 146	Weight Management	1.0	4
MUS 130	Brass Ensemble	1.5	4	PE 147	Triathlon Basics	1.0	4
MUS 131	Percussion Ensemble	1.5	4	PE 148	Body Sculpting	1.0	4
MUS 132	Guitar Ensemble	2.5	4	PE 149A	Beginning Jogging	1.0	2
MUS 133	Stage Band	2.5	4	PE 149B	Intermediate Jogging for Fitness	2.0	2
MUS 134	Jazz Ensemble	2.5	4	PE 150A	Swimming, Beginning	1.0	2
MUS 136	String Ensemble	1.5	4	PE 150B	Swimming, Intermediate/Advanced	2.0	2
MUS 138	Community Chorus	2.5	4	PE 151	Wrestling, Beginning	1.0	4
MUS 138A	Collegiate Chorale	2.5	4	PE 153A	Backpacking, Beginning	2.0	2
MUS 139	Gospel Choir	2.5	4	PE 153B	Backpacking, Advanced	2.0	2
MUS 140	Pop Choir	2.5	4	PE 154A	Badminton, Beginning	1.0	2
MUS 141	Pop/Rock Ensemble	2.5	4	PE 154B	Badminton, Intermediate/Advanced	2.0	2
MUS 142	Jazz Improvisation	1.0	4	PE 155A	Bowling Beginning	1.0	2
MUS 143	The Jazz and Popular Singer	3.0	4	PE 155B	Bowling Intermediate/Advanced	1.0	4
MUS 144	Electronic Synthesizer I	2.0	2	PE 156A	Golf, Beginning	1.0	2
MUS 145	Electronic Synthesizer II	1.0	2	PE 156B	Golf, Intermediate/Advanced	2.0	2
MUS 146	Recording Techniques	2.0	4	PE 158A	Racquetball, Beginning	1.0	2
MUS 147	Basic Applied Music	1.0	4	PE 158B	Racquetball, Intermediate/Advanced	2.0	2
MUS 148	Private Study/Technique	1.0	2	PE 159A	Tennis, Beginning	1.0	2
MUS 149	Private Study/Musical Preparation	1.0	2	PE 159B	Tennis, Intermediate/Advanced	2.0	2
MUS 150	Private Study/Performance Practice	1.0	2	PE 160	Personal Self Defense	1.0	4
MUS 151	Private Study/Preparation	1.0	2	PE 161A	Tae Kwon Do Beginning	1.0	2
MUS 154	Piano Ensemble	1.5	4	PE 161B	Tae Kwon Do Intermediate/Advanced	2.0	2
MUS 171	Work Experience/Music	1.0	4				
MUS 244	Digital Audio Post Production	3.0	2				
NRSG 5	Removing Barriers to Success in Nursing	2.0	3				

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COURSE	DESCRIPTION	MAX		COURSE	DESCRIPTION	MAX	
		UNITS	TIMES			UNITS	TIMES
PE 170	Water Polo	2.0	4	RE 173/174	Real Estate Occ Work Experience/ Career Internship	3-4	4
PE 171A	Softball	1.0	2	READ 6	Tutor Training	.5	1
PE 171B	Softball, Intermediate/Advanced	2.0	2	READ 41	Individualized Reading	.5	4
PE 171C	Slow Pitch Softball	1.0	2	RTV 155	Radio Production	3.0	4
PE 172A	Volleyball, Beginning	1.0	2	RTV 170	Broadcast News/Webcasting	1.0	4
PE 172B	Volleyball, Intermediate/Advanced	2.0	2	RTV 171	Occupational Work Experience in Theatre	1.0	4
PE 173	Soccer Fitness and Technique	1.0	2	RTV 175	Sports Casting	1.0	4
PE 175A	Baseball, Beginning	1.0	2	RTV 176	Talk Radio Broadcasting	1.0	4
PE 175B	Baseball, Intermediate/Advanced	2.0	2	RTV 255	Editing Audio	3.0	4
PE 176A	Basketball	1.0	2	SLP 120	Phonetics Lab	.5	3
PE 176B	Basketball, Advanced	2.0	2	SOC 225	Contemporary Social Issues	3.0	4
PE 177	Flag Football	1.0	4	SPCH 31	Communication Disorders	1.0	4
PE 178	Football, Intermediate/Advanced	2.0	4	SPCH 200	Contemporary Communication Topics	3.0	4
PE 179A	Soccer, Beginning	1.0	2	SPCH 236	Forensics for One Tournament	1.0	4
PE 179B	Soccer, Intermediate/Advanced	2.0	2	SPCH 237	Forensics for Two Tournament	1.0	4
PE 200	Baseball	3.0	4	SPCH 238	Forensics for Three Tournament	1.0	4
PE 201	Baseball Off-Season Conditioning	2.0	4	SPCH 239	Forensics Workshop	2.0	4
PE 202	Basketball, Men	3.0	4	TH 105	Intro to Musical Theatre Techniques	3.0	4
PE 204	Basketball, Women	3.0	4	TH 107	Actors Studio	3.0	4
PE 206	Cross Country, Men	3.0	4	TH 108	Improvisation for the Theatre	3.5	2
PE 207	Cross Country Conditioning	1.0	4	TH 109	Remounting a Production	2.0	4
PE 208	Cross Country, Women	3.0	4	TH 110	Fundamentals of Acting	3.5	2
PE 210	Football, Men	3.0	4	TH 115	Stage Movement & Combat	3.0	2
PE 211	Football Conditioning (Olympic Weights - Power Lifting)	2.0	4	TH 117	Stand-Up Comedy	3.0	2
PE 212	Football Training and Techniques	2.0	2	TH 123	Stage Make-up	3.0	2
PE 213	Intercollegiate Golf	3.0	4	TH 130	Rehearsal & Performance for the Minor Role	1.0	4
PE 217	Soccer, Men	3.0	4	TH 131	Rehearsal & Performance for the Supporting Role	2.0	4
PE 218	Soccer Pre-Season Conditioning	2.0	4	TH 132	Rehearsal and Performance for the Leading Roles	3.0	4
PE 219	Soccer, Women	3.0	4	TH 133	Stage Crew Activity	1.0	4
PE 221	Softball, Women	3.0	4	TH 134	Technical Production	2.0	4
PE 222	Softball Pre-Season Conditioning	1.0	4	TH 136	Touring Theatre Production for Supporting Roles	2.0	4
PE 223	Swimming	3.0	4	TH 137	Touring Theatre Production for Leading Roles	2.0	4
PE 225	Swimming, Women	3.0	4	TH 140	Beginning Jazz Dance	2.0	2
PE 227	Tennis, Men	3.0	4	TH 141	Intermediate Jazz Dance	2.0	2
PE 228	Tennis Conditioning	1.0	4	TH 142	Beginning Tap Dance	2.0	2
PE 229	Tennis, Women	3.0	4	TH 143	Intermediate Tap Dance	2.0	2
PE 231	Track & Field, Men	3.0	4	TH 144	Dance for Music Theatre	2.0	2
PE 233	Track & Field, Women	3.0	4	TH 145	Costume Production for Dance	1.0	4
PE 234	Track & Field Conditioning	1.0	4	TH 146	Musical Theatre Production for Chorus	2.0	4
PE 235	Volleyball, Women	3.0	4	TH 147	Musical Theatre Production for Leading Roles	3.0	4
PE 236	Volleyball Pre-Season Conditioning	1.0	4	TH 171	Occupational Work Experience in Theatre	1.0	4
PE 238	Wrestling Off Season Training	2.0	4	TH 208	Advanced Improv	3.5	2
PE 239	Water Polo – Men	3.0	4	TH 216	Acting for the Camera	3.0	2
PE 241	Water Polo – Women	3.0	4	TH 221	Costuming for the Stage	3.0	2
PE 243	Wrestling	3.0	4	TH 221A	Advanced Costuming for the Stage	3.0	2
PE 245	Pep Unit	2.0	4	TH 223	Portable Entertainment Technology-Lighting	3.0	2
PE 271A	Occupational Work Experience in Athletic Training	1.0	4	TH 224	Portable Entertainment Technology-Audio and Staging	3.0	2
PE 271B	Occupational Work Experience in Fitness	1.0	4	TH 225	Portable Event Production	1.0	2
PHAR 73/74	Pharmacy Tech Occ Work Experience	3-4	2	WELD 43/44	Welding Occ Work Experience	3-4	4
PMT 2	Injection Molding Fundamentals	1.5	2	WELD 51L	Advanced Arc Welding Specialty Lab	1.0	4
PMT 43/44	Plastics Manufacturing Technology Occupational Work Experience	3-4	4	WELD 54L	Advanced Pipe Welding	2.0	2
PMT 59	Injection Molding I	2.5	2				
PMT 61	Fiberglass Technology	2.5	2				
PMT 63L	Specialty Plastics Lab	.5	4				
RE 172	Real Estate Occ Work Experience/ Career Internship	2.0	3				

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COURSE	DESCRIPTION	MAX	
		UNITS	TIMES
WELD 170	Structural Fabrication	2.0	2
WELD 210L	Arc Welding Applications	2.0	3
WELD 240	Advanced Tungsten Arc Welding Lab	2.0	2
WELD 250L	Gas Tungsten Arc Welding Applications	2.0	2
WMT 43/44	Woodworking Manufacturing Tech Occ Work Experience	3-4	4
WMT 102	Introduction to Solid Wood Casegoods	4.0	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
WMT 111L	Introduction to Woodworking Lab	1.0	4
WMT 115	Scrollsaw Fretwork and Intarsia	2.0	2
WMT 117	Woodworking Appreciation	1.0	3
WMT 118	Introduction to Woodworking	2.0	2
WMT 119L	Introduction to Woodturning Lab	1.0	4
WMT 120	Artwork Framing	3.0	2
WMT 123	Decorative Boxes	4.0	2
WMT 130	Furniture Design	3.0	2
WMT 132	Chair Design and Construction	4.0	2
WMT 134	Frame Making	4.0	2
WMT 137	Outdoor Furniture	2.5	4
WMT 144	Jigs and Fixtures	2.0	2
WMT 148	Furniture Making and Manufacturing	4.0	2
WMT 151	Intro to Faceframe Cabinetmaking	4.0	2
WMT 153	32mm System of Cabinetmaking	4.0	2
WMT 154	Intro to Cabinet Installation	3.0	2
WMT 155	Architectural Millwork	4.0	2
WMT 157	Passage Door	4.0	2
WMT 159	Solid Surface Fabrication	4.0	2
WMT 171	Introduction to Wooden Boat Building	3.0	2
WMT 181	Introduction to Computer Operations for Cabinetmaking and Design	3.0	2
WMT 185	CNC Woodworking	3.0	2
WMT 201	Woodworking with Hand Tools	4.0	2
WMT 202	Advanced Furniture Case Goods	4.0	2
WMT 203	Wood Veneering	4.0	2
WMT 204	Advanced Tables	4.0	2
WMT 211	The Workbench Class	4.0	4
WMT 218	Polychromatic and Closed Form Turning	3.0	2
WMT 219L	Woodturning Lab	1.0	4
WMT 228L	Production Furniture Making and Manufacturing	1.0	4
WMT 229L	Comprehensive Woodworking Manufacturing Specialty	2.5	4
WMT 233	Morris Chair	4.0	3
WMT 235	Windsor Chair	3.0	2
WMT 237	Traditional American Furniture	4.0	2
WMT 239L	Traditional Furniture Lab	1.0	2
WMT 241	Special Topics in Handtool	2.0	4
WMT 243	Advanced Wood Veneering	4.0	2
WMT 244	Chest of Drawers	4.0	2
WMT 246	Rocking Chair	4.0	2
WMT 248	Production Furniture Making and Manufacturing	4.0	3
WMT 249L	Furniture Manufacturing Specialty	2.5	4
WMT 250	Intermediate Faceframe Cabinetmaking	4.0	2
WMT 251	Advanced Cabinetmaking	4.0	2
WMT 252	Intermediate 32MM System Cabinetmaking	4.0	2
WMT 253	Advanced 32MM System of Cabinetmaking	4.0	2

COURSE	DESCRIPTION	MAX	
		UNITS	TIMES
WMT 258	Mantels and Wall Systems	4.0	2
WMT 259L	Solid Surface Manufacturing Specialty Lab	2.0	4
WMT 268A	Production Cabinetmaking (Commercial/Institutional)	5.0	3
WMT 268B	Production Cabinetmaking & Manufacturing (Residential)	5.0	2
WMT 268C	Production Cabinetmaking & Manufacturing (Mass Production)	5.0	2
WMT 269L	Cabinetmaking Manufacturing Specialty	2.5	4
WMT 281	Advanced Computer Operations for Cabinetmaking and Design	2.5	2

CHANGE OF ADDRESS

Changes in address must be reported immediately to the Admissions and Records Office. 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.

DEFINITION OF A CLASS HOUR

A class hour is defined as 50 minutes. Classes scheduled for more than an hour follow formulas to stay close to this definition. For example, a class scheduled from 6:00 to 7:30 p.m. (90 minutes) actually meets for 80 minutes, allowing for a 10 minute passing period. Longer class meeting patterns have required breaks. Cerritos College follows these time patterns.

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 A.A. 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 from class of students who are members of an active or reserve United States military service unit who receive orders compelling withdrawal from courses. Upon verification of such orders, a military withdrawal (MW) symbol may be assigned at any time after the period during which no notation is made for withdrawals. There will be no penalty for military 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 who desires to enroll for college credit.
<i>Special Admit</i>	One currently enrolled in K-10th grade who desires to enroll for college credit.

PARKING REGULATIONS

Parking on campus is by permit only. Term and daily permits are available. Please refer to the Expenses section of the catalog for more information. Metered parking is also available.

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 MUST BE AFFIXED TO THE INSIDE LOWER LEFT OF THE FRONT WINDSHIELD. IT IS YOUR RESPONSIBILITY TO ENSURE THE PERMIT IS VISIBLE IN ITS ENTIRETY AT ALL TIMES. Vehicles not properly displaying a permit 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. Persons displaying a "DP" plate or placard may not park in spaces reserved for "carpool" or Board Members. Students may not park in stalls designated for staff parking unless they have a qualified disability and a valid "DP" plate or placard AND a current student parking permit displayed.

Parking is free in student stalls during the first week of each semester and the first week of the first summer session. 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 students with a valid "DP" plate or placard and a current parking 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	Valid "DP" plate or placard and a current Cerritos College parking permit.
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, 7 a.m., through Friday, 11 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 the Campus Police Department 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. Student vehicles parking in the surrounding neighborhoods will be cited, towed away and impounded by the city at the student's expense.

The property owners also prohibit student parking in the shopping centers adjacent to campus. Student vehicles in these shopping centers are also towed away by property managers, at the student's expense.

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 are requested through the Admissions and Records Office. Fees will be credited if the official drop has occurred within the appropriate deadline for session or semester.

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 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 3.0 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

Teacher TRAC

The Teacher TRAC program offers many services and pathways for students interested in teaching K-12. Teacher TRAC focuses on preparing future elementary school teachers, special education teachers, secondary teachers, and future Career Technical Education Industrial Technology teachers at the secondary and community college level in woodworking, welding, and automotive.

For students interested in becoming an elementary school teacher, Teacher TRAC's flagship program is a partnership with California State University, Long Beach. As a student in the integrated, standards-based Teacher TRAC / CSULB program, you can earn your bachelor's degree and multiple-subject teaching credential, and complete your student teaching. Official Teacher TRAC students receive admission to CSULB (upon completion of the lower division general education and pre-major requirements).

Excellent opportunities are offered through the Teacher TRAC Program. These opportunities include work experience in schools, access to Teacher TRAC counselors, training on how to integrate technology into the classroom, participation in conferences for teachers, and access to Teacher TRAC Scholarships.

Change a life, shape a future, and give back to your community. Become a teacher!! California schools need new teachers each year. One of them can be you!

HOW DO I REGISTER?

Applications for the program are accepted each semester. Visit our website at www.teachertrac.com for an application and more information, or call (562) 860-2451, Ext. 2212.



Learning Communities Program

Learning communities involve the intentional creation of class pairs or clusters around a common theme, public issue or question. Typically, the same group of students is co-enrolled in two or more courses, usually from different disciplines—for instance, history and art, English and career guidance, political science and philosophy. Students enroll in both courses but receive a separate grade for each one.

Course instructors integrate their syllabi, encouraging students to gain a deeper understanding of each course, even as they discover connections between the two. Classroom activities, tests, assignments, field trips, research projects, and educational technology are used to engage students in their own learning, as well as provide them with valuable “real-world” skills.

Perhaps more importantly, the learning community model promotes student-centered learning, with an emphasis on an enriched classroom environment. It promotes greater intellectual growth and genuine mastery of course content through collaborative activities, frequent feedback, and increased student-teacher and student-student interactions. Traditional lecturing is minimized; active learning and thoughtful integration of content are maximized.

Research indicates learning communities promote student achievement, retention, and progress toward degree completion. Faculty benefit from professional development and training, fresh approaches to teaching, and collaboration with colleagues.

FIRST-YEAR EXPERIENCE PROGRAM (FYE)

The First-Year Experience Program 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 positive, strong start in college. Students who are interested in this program should call (562) 860-2541, Ext. 2782 for more information.

WHAT ARE THE BENEFITS OF JOINING A LEARNING COMMUNITY?

- Smooth your transition into college
- Meet other students and form lasting friendships
- Reinforce learning in one class while working on projects in the other
- Learn how to choose your major and reach your academic goals sooner
- Graduate or transfer to a four-year college or university sooner
- Increase your learning and earn better grades

Are Learning Community courses transferable?

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

What are the requirements to enroll?

The only requirement is that you must enroll in all the courses listed for that Learning Community. The prerequisites are listed in the Cerritos College Catalog and must be met prior to enrollment.

Are Learning Community courses more difficult?

No, you will not be required to do more work than if you took the two classes separately. In fact, by taking the courses in a learning community, you may find that material is easier to understand.

How will Learning Community courses 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. 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

When a student enrolls in a group of two or more courses as part of a learning community or FYE House, 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.**

Distance Education Program

Distance education takes place whenever teacher and student interactions are separated by physical distance and facilitated by the use of technology. Voice, video, data, and print may be used in place of traditional classroom delivery to bridge the instructional gap. Many courses listed in this catalog are delivered via distance education either fully online or in a hybrid mode. In online courses students and teachers do not meet regularly on campus as a class, although some instructors may require on-campus attendance for orientation, test taking, or to satisfy other course requirements. Hybrid courses include the combination of traditional in-class meetings with computer-based learning and other instructional technologies.

Distance education classes are identified in the published class schedule with the designation “online” or “hybrid.” All online and hybrid courses carry full academic credit, and the content is equivalent to what you would receive via a more traditional mode of delivery. Students enroll in distance education classes in the same manner as regular classes. Consult the general enrollment procedures in this catalog or in the class schedule for more information.

What do Distance Education students need to be successful?

- Internet access and basic computer skills (send and receive e-mail messages and attachments, download and manage files, search and navigate the Internet using a browser)
- Awareness of available online library resources and learning support services
- Time management and organizational skills
- Motivation and focus
- Completion of an online orientation program or equivalent preparation, such as previous online coursework.

Before registering for an online course, you should make sure that your skills are proficient in basic computing, web browsing, e-mail, and word processing. Your instructor will not teach these skills as part of the content of the course.

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 available in the class schedule and online at www.cerritos.edu/finalexam. 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	Less than satisfactory	1
F	Failing	0
FW	Failing, due to lack of participation and failure to withdraw	0
P	Pass (at least satisfactory, the equivalent of a "C"; units awarded not counted in GPA)	-
NP	No Pass (less than satisfactory or failing - units not counted in GPA)	-
I	Incomplete	-
MW	Military Withdrawal (without penalty)	-
W	Withdrawal	-
*RD	Report Delayed	-

*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 Records and 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 Admissions and Records Office. 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 \$3 is charged for each regular transcript; a \$10 fee is charged for each rush transcript (2-hour turnaround). Failure by a student to pay proper financial obligations due to the college or district may result in the withholding of grades, transcripts, diplomas, or registration privileges or any combination thereof. (California Code of Regulations, Title 5, Section 59410).

VERIFICATION OF STUDENT STATUS FEES

The following are the fees for verification of enrollment:

\$2.00 per verification of status.

\$5.00 additional rush fee per verification to be completed within the same business day.

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 higher.

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.

REMOVAL FROM CLASS

A student may be involuntarily removed from a course due to excessive absences, failure to meet prerequisite(s), or as a result of official disciplinary action. (California Code of Regulations, Title 5, Section 55003).



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 their instructor to explain the absence. Students who are absent in excess of 10% of the total class hours are subject to drop. Students who are absent during the course add period are subject to drop. Certain academic and career technical education areas may have stricter attendance requirements.

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.

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

Students must attend the first class meeting or their names may be removed 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.

WITHDRAWAL

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 withdraw from class, it is the student’s responsibility to drop in person in the Admissions and Records Office or through MyCerritos.

THE ULTIMATE RESPONSIBILITY OF WITHDRAWAL FALLS TO THE STUDENT.

How to officially withdraw after enrollment ends:

Complete an Add/Drop card (available in the Admissions and Records Office) or for a faster response, use MyCerritos (<http://my.cerritos.edu>). Retain an updated printout for your records.

ALL WITHDRAWALS MUST BE COMPLETED BY THE LISTED DEADLINES. FAILURE TO OFFICIALLY WITHDRAW FROM CLASS(ES) MAY RESULT IN AN “F/FW” GRADE FOR EACH CLASS. SEE THE “Calendar of Important Dates” in the schedule of classes for specific deadlines.

BASIC SKILLS COURSE LIMITATIONS

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

- ENGL 15, 20
- MATH 20, 40
- READ 41, 42, 43, 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.

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 Admissions and Records Office.

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 Admissions and Records Office 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 55022, permits the granting of credit toward a degree or certificate for courses completed on a Pass/No Pass basis. All sections of the course must be offered in the same manner. Courses may be offered for Pass/No Pass in either of the following categories and will be specified in the catalog:

Pass/No Pass Only Grading Basis

- Courses wherein all students are evaluated on a Pass/No Pass basis only. Please refer to current Class Schedule for the list of courses offered as Pass/No Pass only.

Optional Pass/No Pass Grading Basis

- Courses in which each student has the option to individually elect Pass/No Pass or letter grade. Please refer to the current Class Schedule for the list of courses offered with the Pass/No Pass option.

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. 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 decision to elect Pass/No Pass grading must be made by the end of the fifth week of a full semester course or by the first 30% of a short-term course, after which no other evaluative grade may be given. Pass/No Pass forms are available online or in the Admissions and Records Office in the Administration Building. Forms must be received and processed by the Admissions and Records Office in order to receive the Pass/No Pass notation.

A grade of "P" is earned for coursework equal to a grade of "C" or better. A grade of "NP" is earned for coursework equal to a grade of "D" or "F". Neither "P" nor "NP" grades are used in computation of grade point average; however, P/NP units will appear on the transcript of record.

A student may reverse P/NP selection to a letter grade, provided the reversal is completed prior to the end of the fifth week of a full semester course or prior to the first 30% of a short term course.

Units attempted for which a grade of "NP" is recorded shall be considered in probation and dismissal procedures. Students may not repeat a course using the P/NP grading basis for a course previously taken for a letter grade.

Students are advised that four-year institutions may limit the number of units acceptable for transfer completed with a P/NP notation.

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 F-1 status 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 (A.A.), 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 visit the website at www.cerritos.edu/isc.

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 A.A. 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 A.A. degree (Plan A) as follows:

AP Subject	Cerritos College A.A. GE Area	Units Granted
Art: History of Art	Fine Arts-6 c. (1)	3
Art: Studio	Elective credit only	3
Biology	Biological Sciences-6 a. (2)	4
Chemistry	Physical Sciences-6 a. (1)	5
Computer Science A	Communication and Analytical Thinking-6 d. (2)	3
Computer Science AB	Communication and Analytical Thinking-6 d. (2)	3
Economics: Macroeconomics	Social and Behavioral Sciences-6 b. (3)	3
Economics: Microeconomics	Social and Behavioral Sciences-6 b. (3)	3
*English: English Language & Composition	English Composition-6 d. (1)	3

*English: English Literature & Composition	English Composition and Humanities-6 d. (1) and 6 c. (2)	6
Environmental Science	Biological Sciences-6 a. (2)	3
French: French Language	Humanities-6 c. (2)	5
French: French Literature	Humanities-6 c. (2)	5
German Language	Humanities-6 c. (2)	5
Government and Politics: United States	American Government-6 b. (2)	3
Government and Politics: Comparative	Social and Behavioral Sciences-6 b. (3)	3
History: European History	Social and Behavioral Sciences-6 b. (3)	3
History: United States History	American History-6 b. (1)	3
History: World	Social and Behavioral Sciences-6 b. (3)	3
Human Geography	Social and Behavioral Sciences-6 b. (3)	3
Japanese	Humanities-6 c. (2)	3
Latin: Vergil	Humanities-6 c. (2)	3
Latin: Latin Literature	Humanities-6 c. (2)	3
**Mathematics: Calculus AB	Communication and Analytical Thinking-6 d. (2)	3
**Mathematics: Calculus BC	Communication and Analytical Thinking-6 d. (2)	3
Music Theory	Fine Arts-6 c. (1)	3
Physics B	Physical Sciences-6 a. (1)	5
Physics C (mechanics)	Physical Sciences-6 a. (1)	3
Physics C (electricity and magnetism)	Physical Sciences-6 a. (1)	3
Psychology	Social and Behavioral Sciences-6 b. (3)	3
Spanish: Spanish Language	Humanities-6 c. (2)	5
Spanish: Spanish Literature	Humanities-6 c. (2)	5
**Statistics	Communication and Analytical Thinking-6 d. (2)	3

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

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

Students wishing to apply AP credits towards transfer general education and unit requirements should consult the table on the Transfer Center website at www.cerritos.edu/transfer.

Students wishing to apply AP credits towards transfer major requirements should consult the receiving institution's policy which can often be found in the receiving institution's university catalog. A Cerritos College counselor may help you with your inquiries.



COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College-Level Examination Program (CLEP) gives college students the opportunity to receive college credit by earning qualifying scores on standardized examinations.

A student must be currently enrolled at Cerritos College at the time they request credit for CLEP exams. Credit will not be granted for courses in which equivalent or more advanced course work has been completed. All official transcripts from CLEP must be submitted directly to the Admissions and Records Office to receive credit. The number of units earned through CLEP will be noted on the student's transcript.

Departmental approval is required to determine whether test scores will satisfy requirements for the major.

Credit granted towards the associate degree at Cerritos College does not necessarily transfer to other institutions. Transferability of credit is determined by the receiving college or university. Currently, the University of California does not accept CLEP Examinations. Please see a counselor for applicability to transfer requirements.

Credit for the American Government exam does not meet the CSU American Institutions requirement. In addition, the English composition requirement currently cannot be met by a CLEP exam.

CLEP Examination	Passing Score	Cerritos College A.A. GE Area	Units Granted
American Government	50	American Government -6 b. (2)	3
American Literature	50	Humanities-6 c. (2)	3
Analyzing and Interpreting Literature	50	Humanities-6 c. (2)	3
Biology	50	Biological Sciences-6 a. (2)	3
Calculus	50	Communication and Analytical Thinking-6 d. (2) and satisfaction of math proficiency requirement	3
Chemistry	50	Physical Sciences-6 a. (1)	3
College Algebra	50	Communication and Analytical Thinking-6 d. (2) and satisfaction of math proficiency requirement	3
College Algebra-Trigonometry- (Discontinued June, 2007)	50	Communication and Analytical Thinking-6 d.(2) and satisfaction of math proficiency requirement	3
English Literature	50	Humanities-6 c. (2)	3
French Level II	59	Humanities-6 c. (2)	3
German Level II	60	Humanities-6 c. (2)	3
History, United States I	50	American History-6 b. (1)	3
History, United States II	50	American History-6 b. (1)	3
Human Growth and Development	50	Social and Behavioral Sciences-6 b. (3)	3
Humanities	50	Humanities-6 c. (2)	3
Introductory Psychology	50	Social and Behavioral Sciences-6 b. (3)	3
Introductory Sociology	50	Social and Behavioral Sciences-6 b. (3)	3
Natural Sciences	50	Physical Sciences or Biological Sciences -6 a. (1) or 6 a. (2)	3

Pre-Calculus	50	Communication and Analytical Thinking -6 d. (2) and satisfaction of math proficiency requirement	3
Principles of Macroeconomics	50	Social and Behavioral Sciences-6 b. (3)	3
Principles of Microeconomics	50	Social and Behavioral Sciences-6 b. (3)	3
Spanish Level II	63	Humanities-6 c. (2)	3
Trigonometry	50	Communication and Analytical Thinking -6 d. (2) and satisfaction of the math proficiency requirement	3
Western Civilization I	50	Social and Behavioral Sciences-6 b. (3)	3
Western Civilization II	50	Social and Behavioral Sciences-6 b. (3)	3



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 is open to all qualified students regardless of national origin, religion, age, gender, gender identity, gender expression, race, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics, or any other status protected by law in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.

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.

Students 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 PROCEDURES

A student of the College may address 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 the District.

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 Responsibilities," or any state, federal, or local codes. Grades and grading grievances are not addressed within this administrative procedure. Student should refer to "Student Grade Grievance Procedure."

The determination of whether the Statement of Grievance presents sufficient grounds for a hearing shall be based on the following:

- The statement contains facts which, if true, would constitute a grievance under these procedures;
- The grievant is a student, which includes applicants and former students;
- The grievant is personally and directly affected by the alleged grievance;
- The grievance was filed in a timely manner;
- The grievance is not clearly frivolous, clearly without foundation, or clearly filed for purposes of harassment.

If the grievance does not meet each of the requirements, the Office of Judicial Affairs or ASCC Chief Justice or designee shall notify the student in writing of the rejection of the request for a grievance hearing, together with the specific reasons for the rejection and the procedures for appeal.

GRIEVANCE PROCEDURE (Except Grades and Grading, Sexual Harassment, and Other Illegal Discrimination):

STEP I - INFORMAL ACTION

- A. The student with a grievance 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, the student shall then attempt to resolve the matter by informal discussion with the person at the lowest level of supervisory authority for the person with whom there is a complaint.
- C. If the grievant still believes the issue has not been resolved satisfactorily after Step I-B, a student Statement of Grievance Form may be obtained from the Office of Judicial Affairs. After completion of the Form, specifying the time, place, nature of the complaint and remedy or correction requested, it should be submitted to the Coordinator of Student 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 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 administrative offices. All weekend days and college holidays are excluded.
- D. The ASCC 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 is intended to include the levels of management or administration concerned with the problem and should be completed within ten instructional days, as such days are defined herein. In the event the informal procedure fails, then the formal procedure may be implemented.

STEP II - FORMAL ACTION

A. PRELIMINARY STEPS

1. If the grievant does not believe the grievance has been resolved, then the grievant may request Step II-Formal Action through the ASCC Chief Justice. 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:
 - ASCC Chief Justice or designee and two Court Justices or designees,
 - the Vice President of Academic Affairs or administrative designee,
 - the Faculty Senate President or Senate designee, and
 - one Faculty Senate member, chosen by the Faculty Senate.
 If replaced per section II.A.5. herein, the ASCC Chief Justice or designee or Court Justices or designees substitute(s) shall be appointed by the ASCC Court.
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 may be selected within the first six weeks of the academic year. Names selected by the Faculty Senate are to be submitted to the Chief Justice. Members of the Committee are to 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. No person shall serve as a member of a Hearing Committee if that person has been personally involved in any matter giving rise to the grievance, has made any statement on the matters at issue, or could otherwise not act in a neutral manner. 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, who 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 15 instructional days after informal action has been completed and the grievant has requested a formal hearing.
2. The Chair must notify the parties involved within five 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 members shall constitute a quorum by which Hearing Committee business may proceed. The quorum must include at least one student member, one faculty member, and one administrative member.
4. The members of the Hearing Committee shall be provided with a copy of the grievance and any written response provided by the respondent before the hearing begins.
5. Both parties shall have the right to present personal statements, testimony, evidence, and witnesses. Formal rules of evidence shall not apply. Any relevant evidence shall be admitted. Unless the Hearing Committee determines to proceed otherwise, each party to the grievance shall be permitted to make an opening statement. Thereafter, the grievant or grievants shall make the first presentation, followed by the respondent or respondents. The grievant(s) may present rebuttal evidence after the respondent(s)' evidence. The burden shall be on the grievant or grievants to prove by substantial evidence that the facts alleged are true.
6. Each party shall have the right to be present, to be accompanied by the person of his or her choice (who may not participate in the hearing), and to question witnesses who are present. In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the committee agree to the contrary.
7. The hearing shall be recorded by the Coordinator of Judicial Affairs either by audio recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. The audio or stenographic recording shall remain in the custody of the District, at all times, unless released to a professional transcribing service. Any recognized party to the grievance may request a copy of the recording.
8. The Hearing Committee Chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name.
9. The Hearing Committee shall discuss the stated grievance(s), hear testimony, examine witnesses, and receive all available evidence to the charge.
10. The hearing shall be closed to the public unless otherwise agreed upon in writing by both parties.
11. 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 appropriate Vice President. The Hearing Committee's decision(s) shall be final unless appealed.
12. A recording of the proceedings shall be kept in a confidential file in the Office of Student 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.
13. 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.
14. Evidence and testimony given in each case presented shall not be the sole cause of initiating or filing further grievances.
15. If the grievant does not act within the time limits provided herein, the ability to proceed with the grievance shall be terminated and no further action will be taken.
16. 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.
17. 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.
18. 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 30 instructional days after the grievant should have reasonably become aware of the act or condition on which the complaint is based.

APPEALS PROCESS

1. If a party wishes to formally appeal a recommendation of the Hearing Committee, an appeal must be submitted within ten instructional days to the appropriate Vice President provided the appropriate Vice President is not a direct party to the grievance. If the appropriate Vice President is a direct party to the grievance, and either party is dissatisfied with the recommendation of the Hearing Committee, an appeal may be submitted to a Vice President/Assistant Superintendent 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 appropriate Vice President or alternate may accept or reject the Hearing Committee's decision.
3. If the appropriate Vice 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 instructional days. The Hearing Committee shall within ten instructional days reconsider its decision(s) and submit its decisions to the appropriate Vice President for a final decision.
4. The appropriate Vice President shall transmit his or her final decision to the parties within ten instructional days.
5. An appeal of the appropriate Vice President's decision may be submitted to the President/Superintendent by either party within five instructional days of the appropriate Vice President's decision. The President/Superintendent shall transmit his or her final decision to the parties within ten instructional days.
6. An appeal of the President/Superintendent's decision may be submitted to the Board of Trustees by either party within five instructional days of the President/Superintendent's decision. The Board of Trustees may review an appeal for two consecutive regular Board meetings before making a final determination of the matter at the District level.
7. The President/Superintendent or designee, or Board of Trustees may reject a Hearing Committee decision only after reviewing a transcription of the involved hearing.

STUDENT GRADE GRIEVANCE PROCEDURE

A student of the College may present a grade grievance. The California Education Code, Section 76224, quoted, 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 incompetence, shall be final.” “Mistake” may include, but is not limited to, errors made by an instructor in calculating a student’s grade and clerical errors.

STEP I – INDIVIDUAL ACTION

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

STEP II – MANAGEMENT ACTION

1. The student will obtain a Grade Grievance Form from the Office of Student Judicial Affairs.
2. The student must return the Grade Grievance Form to the Office of Student Judicial Affairs within 30 instructional days after the completion of the course about which the grade grievance is 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 Student Judicial Affairs will meet with the student and review the completed Grade Grievance Form. If the student wishes to pursue the grievance, the Coordinator of Student Judicial Affairs will sign and date the Form.
4. The Coordinator of Student Judicial Affairs will present a copy of the Grade Grievance Form to the applicable 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 Student Judicial Affairs and is dated. The Division Dean shall make a recommendation to the parties within ten instructional days.

STEP III – ADMINISTRATIVE ACTION

If either party is dissatisfied with the recommendation of the Division Dean, he or she may appeal the matter to the Vice President of Academic Affairs or designee within ten instructional days of the Division Dean’s recommendation. The Vice President of Academic Affairs or designee shall call a meeting with the student, the ASCC Chief Justice, the Division Dean, and if needed, the faculty member. The Vice President of Academic Affairs or designee shall transmit his or her decision to the parties within ten instructional days.

STEP IV – PRESIDENT/SUPERINTENDENT ACTION

If either party chooses to appeal the decision of the Vice President of Academic Affairs, he or she may appeal the matter to the President/Superintendent of the College within ten instructional days of such decision. 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/Superintendent. The President/Superintendent will review the recommendation and if needed, request persons involved in the grievance to meet.

The President/Superintendent shall make a recommendation within ten instructional days. If either party is dissatisfied with the recommendation of the President/Superintendent, an appeal of the President/Superintendent’s recommendation may be submitted to the Board of Trustees by either party. The appeal must be submitted within ten instructional days after the President/Superintendent’s recommendation. The Board may review an appeal for two 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.

ADDITIONAL INFORMATION

Most complaints, grievances, and disciplinary matters should be resolved at the college level. If a complaint does not fall into one of the college’s established procedures, it may be addressed in writing to the College President. Individuals are strongly encouraged to make every attempt to resolve matters through the appropriate administrative processes.

Matters that are not resolved at the college level may be submitted to one or more of the following agencies for consideration:

- The Accrediting Commission for Community and Junior Colleges (ACCJC) at <http://www.accjc.org/complaint-process>, if the complaint is associated with the institution’s compliance with academic program quality and accrediting standards. The ACCJC is the agency that accredits the academic programs of the California Community Colleges.
- If the complaint does not concern the college’s compliance with academic program quality and accrediting standards, it may be directed to the California Community College Chancellor’s Office by completing the web form found at <http://californiacommunitycolleges.cccco.edu>.

STANDARDS OF CONDUCT

The President/Superintendent shall establish procedures for the imposition of discipline on students in accordance with the requirements for due process of the state and federal laws and regulations.

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

Due process requires that in all significant disciplinary situations, a student is informed of charges against him/her, is given an opportunity to refute them, and has the opportunity to appeal a decision.

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

The procedures shall be made widely available to students through the College catalog and other means.

Students enrolling in Cerritos College assume an obligation to abide by all District regulations on District-owned or controlled property or at District-sponsored or supervised functions.

Students who fail to adhere to District regulations are subject to disciplinary actions.

In all disciplinary actions, the student shall be informed of the nature of the charges against him/her and given a fair opportunity to refute them. The District shall not be arbitrary in its actions.

The following conduct while on District-owned or controlled property or at District-sponsored or supervised functions shall constitute good cause for discipline, including but not limited to the removal, suspension, or expulsion of a student.

1. Assault, battery, or any threat of force or violence, or causing, attempting to cause, or threatening to cause physical injury to another person, in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.
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 in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.
8. Engaging in harassing or discriminatory behavior based on national origin, religion, age, gender, gender identity, gender expression, race, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics, or any other status protected by law in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.
9. Engaging in intimidating conduct or bullying against another student through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying.
10. Willful misconduct that results in injury or death to a student, client, patient, visitor, guest, 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.
11. Endangering a student, client, patient, visitor, guest, or District employee or contributing to or causing harm to the health, safety, and/or well-being of such others.
12. 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.
13. Cheating, or engaging in other academic dishonesty including copying from another's work; discussion prohibited by the instructor; obtaining exam copies without permission; and using notes, other information, or devices that have been prohibited.
14. Misrepresentation and/or impersonation, including arranging for or allowing another individual to impersonate or otherwise misrepresent himself or herself to be a student generally or to be a particular student either in person or in an online environment, and/or impersonating or otherwise misrepresenting oneself to be another person in person or in an online environment.
15. Plagiarism, in individual or group work or in a student publication, including 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.
16. Dishonesty; forgery; alteration or misuse of District documents, records, or identification; or knowingly furnishing false information to the District.
17. Unauthorized entry upon, into, or use of District facilities, either in person or in an online environment.
18. Lewd, indecent or obscene conduct on District-owned or controlled property; or at District-sponsored or supervised functions; or directed at and for the purpose of harming another individual or group associated with the District, whether carried out in person or in an online environment, and whether or not the location is associated with the District.
19. 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.
20. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
21. 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.
22. 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.
23. Sexual assault and/or battery; rape, including acquaintance rape; or physical abuse of another person.
24. Misrepresentation of oneself or of an organization to be an agent of the District.
25. 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.
26. Abuse of any person or any possession of any person, on District-owned or controlled property.
27. 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.
28. Abusive behavior directed toward coercion of, or hazing of, or bullying of a member of the college community, in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.

29. 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; arranging for, allowing, and/or impersonation of one person by another; 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.
30. 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, in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.
31. 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.
32. Failure to identify oneself when requested to do so by District officials acting in the performance of their duties.
33. 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.

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. However, plagiarism, cheating, and other forms of academic dishonesty are violations of the college's official Standards of Conduct.

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.

Options may be exercised by the faculty member 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 DISCIPLINE PROCEDURES

Judicial Programs should contribute to the teaching of appropriate individual and group behavior as well as to protecting the campus community from disruption and harm. The Programs should be conducted in ways that will serve to foster the ethical development and personal integrity of students and the promotion of an environment that is in accord with the overall educational goals of the institution.

The Office of Judicial Affairs is responsible for the student conduct and disciplinary procedures of the college. Inquiries should be directed to the Coordinator of Judicial Affairs in the Office of Student Activities.

DISCIPLINARY PROCEDURES AND SANCTIONS

Disciplinary Sanctions

Official Reprimand – Defined as 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 (Disciplinary Officer) shall determine if there exists good and sufficient reason to initiate disciplinary action and student should be notified of such actions.

Disciplinary Probation – Defined as disciplinary action that may include, but is not limited to, 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.

Instructor Removal – Defined as instructor-initiated removal of 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.

1. The instructor or Instructional Dean shall immediately report the removal to the Office of Judicial Affairs for appropriate action such as official reprimand, suspension, or recommendation of expulsion.

Immediate Interim Suspension – The President/Superintendent or designee may order immediate suspension of a student where he or she concludes that immediate suspension is required to protect lives or property and to ensure the maintenance of order. In cases where an interim suspension has been ordered, the time limits contained in these procedures shall not apply, and all hearing rights, including the right to a formal hearing where a long-term suspension or expulsion is recommended, will be afforded to the student within ten instructional days.

Suspension – Defined as exclusion from the College for a specified period of time.

1. Suspensions shall be initiated by the Disciplinary Officer or designee with the knowledge of the Vice President of Student Services.
2. The duration of the suspension from one or more classes shall be for a period of up to ten 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 instructional days.

Expulsion - 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 indefinitely.
3. The expulsion is noted in the permanent file of the student.
4. Re-admittance after expulsion requires Board approval.

Hearing Board

In all cases when the Disciplinary Officer or designee has initiated disciplinary action, the student, within five instructional days following notification of the action, may convey to the Vice President of Student Services, in writing:

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

If a grievance challenging the action is filed, a hearing will be conducted.

A Hearing Board shall be responsible to the President/Superintendent for reviewing and making recommendation to the President/Superintendent. Membership of the Hearing Board shall include the following:

1. Two members of the instructional staff appointed by the Faculty Senate.
2. Two student Court Justices appointed by the ASCC Chief Court Justice or by the Associated Students President, if the Chief Court Justice is a party to the matter.

3. The Disciplinary Officer shall serve as the Chairperson of the Hearing Board, but will not vote except to break a tie.

Procedures for a Hearing, Disposition, and Imposition of Sanctions

1. Written notice of a hearing shall be mailed or delivered to the student. A hearing must be held within ten instructional days of the suspension if the suspension is immediate. 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, the opportunity of the student to appear in person, and the opportunity to present oral and documentary evidence.
3. Hearings shall be conducted in the manner consistent with the orderly conduct of the affairs of the College, and which seems to the Hearing Board to be most conducive to the determination of the truth.
4. All hearings shall be tape recorded. A transcript shall be made available to parties directly involved, at their own expense. Transcripts may be redacted to comply with law, policies, and to protect the privacy and/or safety of individuals.
5. Promptly following the hearing, the Hearing Board shall submit the recommendation to the President/Superintendent. The President/Superintendent and/or designee shall make the final decision on suspensions. A decision of the President/Superintendent to suspend shall be issued to the student in writing. Expulsion requires action by the Board of Trustees. A decision of the Board of Trustees to impose expulsion shall be reached no later than the next regularly scheduled regular Board meeting after the Board receives the recommendation from the President/Superintendent. Notification of the Board's decision regarding expulsion shall be issued to the student in writing after the action by the Board.

Time Limits - Any times specified in these procedures may be shortened or lengthened if there is mutual concurrence by all parties.

These procedures may change from time to time and may be superseded by current state and federal laws and regulations. Otherwise, the College Catalog, which is updated annually, contains the most recent information regarding student discipline procedures.

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/gender, 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/gender, equal rights and opportunities in the educational institutions of the state. (Education Code sections 200-264.)

In compliance with Title IX and Board Policy 3410, the District's educational programs and activities are offered to the community without regard to sex/gender. Questions regarding Title IX policies affecting the educational program should be directed to the Director of Employment, Diversity & Legal Services in the Human Resources Office by calling (562) 860-2451, Ext. 2276.

EQUAL OPPORTUNITY POLICY

Cerritos College does not discriminate in educational and employment opportunities on the basis of national origin, religion, age, gender, gender identity, gender expression, race, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics, or any other status protected by law in person or in an online environment and, when the victim or victims are associated with the District, whether or not the location is associated with the District.

The District is strongly committed to achieving staff diversity and the principles of equal opportunity education and employment. The District encourages a diverse pool of applicants for employment and does not discriminate in any of its policies, procedures, or practices. The District encourages applications from all segments of qualified people and Board Policies 3410 and 3420 prohibit discrimination and promote equal opportunity.

Questions concerning the application of these policies may be addressed to the Human Resources Office by calling (562) 860-2451, Ext. 2276.

SECTION 504/508, AMERICANS WITH DISABILITIES ACT

Under Section 504/508/ADA of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990, Cerritos College will take all necessary steps to ensure that no student with a verified disability is denied the benefits of, excluded from participation in, or otherwise subjected to discrimination because of the absence of auxiliary aids or academic accommodations. The decision to authorize such aids or accommodations is the responsibility of the Disabled Student Programs and Services (DSPS) Dean, Disability Specialist, or DSPS counselor after a review of documentation verifying the disability and any resulting educational limitations.

It is the responsibility of the student with a verified disability and resultant educational limitation to apply for DSPS assistance in the Santa Barbara Building and to file a request for accommodations with DSPS via the college form entitled "Disabled Student Program and Services – Application for Services". The request should be completed with adequate notice provided for an effective response. Classroom related requests will be reviewed for approval on the "Service Request Form" and, upon approval by DSPS, notification will be sent within 3 days to any involved instructor by DSPS staff. The instructor will respond to the request in writing in a timely manner. Non-return will be construed as agreement.

If the instructor denies the classroom related request(s) the DSPS Dean, or designee, will intervene with the appropriate academic staff and attempt to resolve the matter. In the event of continued denial of an accommodation request or request for course substitution or waiver DSPS will provide the student with the policy, procedures and form entitled "Academic Accommodation Request Form". The DSPS Dean or designee, will concurrently inform the student that he/she has the right to file a grievance under the college's discrimination grievance procedure and/or the Office for Civil Rights and will provide the student with the information necessary to do so.

Inquiries regarding DSPS or the District's non-discrimination policy relative to students, employees, or applicants with disabilities should contact the 504/508/ADA Coordinator at ext. 2334, or Human Resources at ext. 2276.

Section 504/508 Complaint Procedure

The student 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 may contact all parties concerned and attempt to reach some resolution of the problem. If the complaint cannot be 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, Soccer, Swimming, Tennis, Track & Field, and Water Polo. Wrestling is a member of the Southern California Wrestling Association. Football is a member of the Southern California Football Association.

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

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 and Services (DSPS) is to provide 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 Programs and Services 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.

Individuals with a disability may receive support services and instruction from Disabled Student Programs and Services at Cerritos. Students 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. Non-classroom related assistance for qualified students includes registration assistance, campus orientation, accommodated placement tests, elevator access, parking, learning disability eligibility assessment, matriculation and support with disability management issues. For further information or an initial appointment contact DSPS. at (562) 860-2451, ext. 2333; (562) 467-5043/TTY; (866) 971-0948/VP; or visit our website at www.cerritos.edu/dsps.

DSPS services available to qualified students include disability management, in-class aides, note taking assistance, tutoring referral, test-taking assistance, textbooks on tape, liaison with instructors and other campus offices, community agency resource information, liaison with the Department of Rehabilitation and other agencies, referral for special instruction, and use of specialized equipment, information.

Instructional Support Center

The Instructional Support Center (ISC), provides disability management, instruction, and technology support services to students with all types of disabilities. Services available include preregistration, interpreters and real time captioning, textbooks on tape, liaison with instructors and other campus offices, and liaison with other outside agencies. The ISC also houses Learning and Evaluation Services, the Assistive Technology Training and Information Center, and Alternate Media Production Center. Learning Evaluation Services provides learning disability evaluations and follow-up referrals for DSPS. services. The Assistive Technology Training Center is 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. An Independent Mediation Lab providing specialized instruction in approaches to accommodate the limitations of a cognitive disability is also available.

ACCIDENT INSURANCE

Accident insurance is provided by Cerritos College to all enrolled 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 coverage programs are available for health and hospitalization coverage. Students interested should contact Student Health Services at (562) 860-2451, Ext. 2321, 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. 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, chiropractic services, referrals to psychological and optometric services, and a variety of support services (pharmacy, laboratory, health education, etc.). Accident, international student, and supplemental insurances are also available through the SHS. We invite you to visit our website at www.cerritos.edu/shs 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.

MENTAL WELLNESS PROGRAM

Psychological services, crisis intervention, and referrals are available to students experiencing emotional problems or concerns. Please contact Student Health Services at (562) 860-2451, Ext. 2321, for assistance or visit our website at www.cerritos.edu/shs.

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 6 p.m., Monday through Thursday. Hours vary during summer sessions and may be extended or reduced as needed. For more information or current hours, call the Student I.D. Center at (562) 860-2451, Ext. 2480.

Extended Hours

During the week before and 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.

Textbook Rental

The bookstore is offering select textbooks for rent. The renter must be 18 years of age with a government issued ID and a valid credit card to be eligible to rent. Rented textbooks may be kept for the entire semester in which they are rented and are due back to the bookstore on the last day of finals. Any rented books not returned to the bookstore by the due date will be charged their full price to the renter's credit card plus a processing fee. For more information regarding the textbook rental program, please refer to the rental website at www.rent-a-text.com.

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.

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 11 a.m. to 1 p.m. for lunch Monday through Thursday during the fall and spring semesters. Additional food services and vending machines are located throughout the campus.

CAREER AND ASSESSMENT SERVICES

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

Assessment Testing Center

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

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 open Monday and Thursday, 8 a.m. – 4:30 p.m.; Tuesday and Wednesday, 8 a.m. – 7 p.m.; and Friday, 8 a.m. – noon. 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 open Monday and Thursday, 8 a.m. – 4:30 p.m.; Tuesday and Wednesday, 8 a.m. – 7 p.m.; and Friday, 8 a.m. – noon. Call (562) 860-2451, Ext. 2362, for more information.

Student Employment-Job Placement Office

Job Placement, 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 and Thursday, 8 a.m. – 4:30 p.m.; Tuesday and Wednesday, 8 a.m. – 7 p.m.; and Friday, 8 a.m. – noon. For more information call (562) 860-2451, Ext. 2356; email jobplacement-info@cerritos.edu; or visit www.cerritos.edu/career-services/job-placement.

CALWORKS

The Cerritos College CalWORKs Program assists students who are receiving Temporary Assistance for Needy Families (TANF), are in good standing with the college, and have developed or are in the process of developing a welfare-to-work plan with the local county welfare office. The program provides eligible students with counseling, educational and career planning, job search assistance, referrals to campus and community based organizations, up-to-date information regarding Welfare Reform Rules, and advocacy with the Department of Public Social Services (DPSS). For eligible students, the CalWORKs program also provides work-study opportunities.

The CalWORKs office is located in the Career Services Center in the Administration Building. To make an appointment with a CalWORKs Counselor, please call (562) 860-2451, Ext. 2356. For additional information, please visit our website at www.cerritos.edu/calworks.

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 One-Stop area of the Administration Building across from the Counseling Office. Office hours are Monday and Thursday, 8 a.m. – 4:30 p.m.; Tuesday and Wednesday, 8 a.m. – 7 p.m.; and closed on Friday. Call (562) 860-2451, Ext. 2154, for further information or visit www.cerritos.edu/transfer.

VETERANS' EDUCATION OFFICE

The Veterans' Education Office 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. The primary function of this office is to certify to the Veteran's Administration that eligible veterans are enrolled at the college and pursuing an approved educational goal.

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.

The Veterans' Education Office is located in the Veterans' Resource Center. Hours are Monday and Thursday, 8 a.m. – 4:30 p.m.; Tuesday and Wednesday, 10 a.m. – 7 p.m.; closed on Friday.

VETERANS' RESOURCE CENTER

The Veterans' Resource Center (VRC) is a one-stop center that houses certifying officials, veteran's counselors, tutors, and other valuable resources. There are computers available for veteran students' use and assistive technology for improved learning. Tutoring is available Monday through Thursday from 2-7 p.m. The VRC is located in the Technology Building, Room #TE 8. Hours are Monday through Thursday, 8 a.m. – 7 p.m., and Friday, 8 a.m. – noon.

CHILD DEVELOPMENT CENTER

The Cerritos College Child Development Center serves students, college employees and the community. The Center is also a laboratory school for future teachers in the field of Early Childhood Education. Our purpose is to provide a safe, nurturing, exceptional early childhood education program for children from 2½ – 5 years old. Inspired by the schools of Reggio Emilia, Italy, we use a constructivist approach to learning. Cerritos College Child Development Center is open from 7:30 a.m. – 5:00 p.m., Monday through Friday. We foster an emergent curriculum, one that arises out of the children's interests and responses to the prepared indoor and outdoor classroom environment and their experiences. Students interested in these services must contact the Child Development Center and fill out a Request for Child Care Services or call (562) 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 care providers the opportunity to take topical courses, which are required in order to keep the foster parent license; and
- 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. In addition to several classrooms and faculty offices, the facility houses the Library, two open computer Labs, the Center for Teaching Excellence, Media Services (technology and multi-media support for faculty and staff), the Teleconference Center, the Math

Learning Center (for semi-independent math courses), and the Success Center. Disabled students have easy access throughout the building via ramps and elevators. All areas of the Library and Learning Resource Center are staffed with qualified personnel who are eager to help you.

The Library

Students, faculty, staff, and district residents are invited to use the College Library, where they can enjoy access to more than 100,000 books and over 200 magazine and newspaper subscriptions in an open stack arrangement. Students, faculty, and staff may use their campus photo IDs as their library card, and district residents may purchase a library card at the Circulation Desk. Students, faculty, and staff have access from campus computers, as well as remotely, to a wide variety of literature and reference databases, and all library resources are listed in the online catalog. Library materials are integral to Cerritos College instructional programs, and all are selected cooperatively by classroom and library faculty. 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 and materials related to the Cerritos College curriculum are available in print at the Reference Desk and online via the Web. Computers are available for student use near the Reference Desk for research and in an open lab setting where printers and group study rooms are also available. The Library is open Monday through Friday during the regular school year. For hours of operation and special schedules, please call the Library at (562) 860-2451, Ext. 2430, or visit the website at www.cerritos.edu/library.

SUCCESS CENTER

The Success Center, located in the LRC on the upper and lower floors, has been established to serve the needs of faculty and students across the campus. The Success Center has set out to provide learning assistance and academic support for students at all levels. Assistance in virtually any subject is available via workshops, directed learning activities, and computer software programs, as well as individually from qualified tutors and instructors. Faculty and staff in the Success Center involve instructors in developing supplemental instruction in a variety of forms and work with instructors to enhance course offerings. For hours, special schedules, and additional information, please call the Success Center at (562) 860-2451, Ext. 7891, or visit the Center's website at www.cerritos.edu/sc.

STUDENT RECORDS

Notification of Rights under FERPA

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

(1) The right to inspect and review the student's education records within 45 days of the day the College receives a request for access.

A student should submit to the registrar or designee a written request that identifies the record(s) the student wishes to inspect. The registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the registrar, the registrar shall advise the student of the correct official to whom the request should be addressed.

(2) The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

A student who wishes to ask the College to amend a record should write the registrar, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

(3) The right to provide written consent before the College discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

The College discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted as its agent to provide a service instead of using College employees or officials (such as an attorney, auditor, or collection agent); or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College. The College may also disclose education records without consent to officials of another school in which a student seeks or intends to enroll.

(4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

Directory Information

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.

Reference: Board Policy and Administrative Procedure 5040

Withholding of Student Records

Student records may be withheld pending satisfaction of certain requirements, per Board Policy and Administrative Procedure 5035.

POLICY ON SEXUAL AND OTHER ASSAULTS

Cerritos College is committed to providing a safe and secure environment for all members of the campus community. Board Policy

3540, Sexual and Other Assaults on Campus, conforms with relevant State and Federal Laws. Sexual assault and acquaintance rape are crimes and will be treated as such. Any student or employee who becomes a victim of sexual assault or acquaintance rape is encouraged to report the crime immediately to Campus Police. The District is dedicated to providing prompt and compassionate services to all crime victims. In the event of an incidence of sexual assault or acquaintance rape, Student Health Services will provide support services and direction. The phone number for Student Health Services is (562) 860-2451, Ext. 2321. The Chief of Campus Police will notify the President-Superintendent of all reports of sexual assault and/or acquaintance rape.

Please see Board Policy 3540 and Administrative Procedure 3540, Sexual and Other Assaults on Campus, for more information. This Policy and Procedure are on the Board Policy webpage at: <http://cms.cerritos.edu/board/policies>.

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 and Board Policy.

The Board of Trustees and the President-Superintendent have provided regulations and procedures to implement this policy and the regulations and procedures are included as a part of the District's Equal Employment Opportunity Plan and Board Policy.

It is a violation of Board 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 in Board Policy and as described 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 is a violation of Board Policy for any employee to sexually harass another employee.

Informal and formal complaints under Board Policy shall be processed through the District's Administrative Procedure 3435, Discrimination and Harassment Investigations, through the Director of Employment, Diversity & Legal Services. The College's policies and procedures are available on the webpage at <http://cms.cerritos.edu/board/policies>.



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.

PRESIDENT'S LIST

Full-time students with 12 units earned or more of college-level courses in a single semester and who achieve a 4.0 grade point average within those units earned will qualify for the President'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

The Financial Aid Office at Cerritos College is here to provide students and the community with a better understanding of financial aid programs and services available. We value and take pride in the diversity of our students and the support we provide in promoting student success. There are many financial aid programs that can help students with fees, books, supplies, transportation, housing, and other related educational expenses.

BASIC STUDENT ELIGIBILITY REQUIREMENTS FOR FEDERAL STUDENT AID

- Be enrolled as a regular student in an eligible program which includes certificate, associate in arts degree, or transfer programs
- Cannot also be enrolled in elementary or secondary school
- Have a high school diploma or equivalent.
- Make satisfactory academic progress
- Meet enrollment status requirements
- Have resolved any drug conviction issue(s)
- Be a U.S. citizen or eligible noncitizen
- Have resolved any default on a FSA loan or overpayment
- Have a valid social security number
- Men aged 18-25 must register with the Selective Service System or meet exemption requirements
- Resolve any conflicting information

There are also program-specific eligibility requirements that may be required.

APPLICATION PROCESS

Step 1 – Apply

- Submit a Free Application for Federal Aid (FAFSA) at www.fafsa.gov
- List Federal School Code 001161

Step 2 – Submit Forms

- Read Missing Information Letter or view To Do List, which lists required documents to complete your file
- Download required forms from www.cerritos.edu/finaid
- Submit the required forms to the Financial Aid Office in person, by mail, fax, or drop-box

Step 3 – Review Award Letter

- Review award letter or view awards on MyCerritos at <http://my.cerritos.edu/>
- You must meet Satisfactory Academic Progress (SAP) standards to receive awards

Step 4 – Receive Financial Aid

- Receive and activate your Cerritos Falcon Card at www.cerritosfalconcard.com
- The Financial Aid Office will disburse your grants, scholarships, and/or loans
- View account activity online at MyCerritos for refund status

IMPORTANT DATES

January – Free Application for Federal Student Aid (FAFSA) becomes available for upcoming award year. Submit financial aid application online at www.fafsa.gov.

March 2nd – Cal Grant application deadline – Submit both FAFSA and GPA Verification

March – April – Respond to Missing Information Letter (MIL) or view To Do's on MyCerritos. Submit all required documentation to the Financial Aid Office.

July – Financial Aid Office begins mailing of Award Notification Letters to students

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.

Federal Supplemental Educational Opportunity Grant (FSEOG) is awarded to eligible undergraduate students with exceptional financial need. It is awarded on a "first-come, first-served" basis and is dependent upon funds available. Students must have a zero EFC and be enrolled in at least six units to receive the funds.

Federal Work-Study (FWS) is a 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 approximately 15 hours per week on or off campus. Students must submit a separate FWS application in addition to the FAFSA to apply for FWS.

William D. Ford Federal Direct Subsidized and Unsubsidized Loans must be repaid. Students must complete a Free Application for Federal Student Aid (FAFSA) first. Once a student receives a financial aid award letter, the student may apply for a student loan at www.cerritos.edu/finaid/loans.html. Loan amounts will be determined at the time the Financial Aid Office certifies a loan application.

Both entrance and exit counseling are requirements of the William D. Ford Federal Direct Loan Program. Students must be enrolled at least half-time to receive a loan. Once a student receives loan funds, the student must maintain reasonable progress toward a certificate, associate degree, or transfer program.

In reviewing a request for any loan, the Financial Aid Office 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.

STATE PROGRAMS

Board of Governors Fee Waiver (BOGFW) 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)/CalWORKs, Supplemental Security Income (SSI)/State Supplemental Program (SSP), or General Assistance (GA). Documentation is required; or
2. Student must meet income standards based on family size. Documentation may be required; or
3. Student must have applied for FAFSA and demonstrate financial need.

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 B Entitlement Awards are for every graduating high school senior who meets the minimum GPA determined by the state, meets all the Cal Grant requirements and applies by March 2 within one

year of graduating (or receiving their GED). 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 B Competitive Awards are for students who aren't eligible for the Entitlement awards. Awards are for students who meet the minimum GPA determined by the state, meet all the Cal Grant requirements and apply by either the March 2nd or September 2nd deadline. The 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.csac.ca.gov.

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), 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, enroll in 12 units, meet with an EOPS counselor three times during each semester, and have earned less than 70 degree applicable units from ALL colleges/universities attended.

CARE Grant is available to students who are current recipients of TANE, in 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.

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 www.cerritos.edu/financial/scholarship.htm

AB540

California's AB540 law allows qualifying students, including undocumented immigrant students, to pay in-state fees at public colleges including Cerritos College. A student must attend a California high school for 3 years or more; graduate from a California high school or receive the equivalent of a high school diploma (such as a GED); and file an affidavit with the Admissions and Records Office stating that they will file an application to adjust their immigration status as soon as they are eligible. Students should inquire at the Admissions and Records Office about applying for AB540. AB540 students are encouraged to search for scholarships for funding their education. Scholarship information can be found at www.maldef.org and www.latinocollegedollars.org.

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, with a passing grade, and (3) repay any "unearned" financial aid as soon as possible to regain eligibility for financial aid.

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 bachelor's 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.

SATISFACTORY ACADEMIC PROGRESS (SAP) STANDARDS

To be eligible for financial aid, students must make satisfactory academic progress toward their educational goal. The Financial Aid Office monitors progress using both Qualitative and Quantitative standards at the end of each semester.

Grade Point Average (GPA) Requirement (Qualitative)

Students must maintain a 2.0 cumulative Grade Point Average (GPA). The GPA standard is used at all times in the determination of eligibility for financial aid, even when students do not receive financial aid.

Unit Completion Requirement - Pace of Progress (Quantitative)

Students are required to complete 70% of the units they have attempted. The cumulative units completed will be divided by the cumulative units attempted to calculate the pace of progress. All units are considered in this calculation. Units for which a grade of W, I, NP, NC, and/or F was received are considered as units attempted, but not completed.

Below are some examples:

Student A: Attended Fall and Spring semesters for one year; attempted 24 units, completed 20 units. Pace of progress is calculated as $20 / 24 = 83\%$; student met the 70% requirement.

Student B: Attended Fall and Spring for one year; attempted 24 units, completed 15 units. Pace of progress is calculated as $15 / 24 = 63\%$; student did not meet the 70% requirement.

Student C: Attended Fall and Spring semesters for two years; attempted 48 units, completed 36 units. Pace of progress is calculated as $36 / 48 = 75\%$; student met the 70% requirement.

Student D: Attended Fall and Spring semesters for two years; attempted 48 units, completed 33 units. Pace of progress is calculated as $33 / 48 = 69\%$; student did not meet the 70% requirement.

Warning

Students will be placed on warning status after a semester if they have not met the unit completion requirement and/or the 2.0 grade point average requirement. If students are placed on financial aid warning status, they may remain eligible for financial aid. Students will receive a letter notifying them of their status and how to avoid termination.

Termination

Students will be placed on termination status after a semester on warning status, if they still have not met the unit completion requirement and/or the 2.0 grade point average requirement. If a student is placed on termination status, they will no longer be eligible to receive financial aid, with the exception of the Board of Governors Fee Waiver.

Maximum Time Frame Requirement (Quantitative)

Students must complete their educational program within a maximum time frame of 150% of the published program's required units at Cerritos College. For example, associate in arts degree and transfer programs generally require 60 units. Therefore, 150% of those programs would be 90 units ($60 \text{ units} \times 1.5$).

Students will be required to meet with a counselor and create an educational plan based on their educational program once the student attempts the following:

- 60 Units (excluding remedial and ESL units) for associate in arts degree or transfer program
- 30 Units (excluding remedial and ESL units) for a certificate program

Students must submit their educational plan to the Financial Aid Office for review. The Financial Aid Office will notify the student regarding their eligibility for financial aid.

If at any point in time it is determined that the student cannot complete their educational program within the 150% time frame, they may be immediately disqualified from financial aid (with the exception of the Board of Governors Fee Waiver). It is the student's responsibility to read and understand the Financial Aid Satisfactory Academic Progress (SAP) Standards.

SERVICES

Financial Aid staff provide assistance during office hours or by appointment. Workshops are offered to assist students with the application process. Staff is also available at One Stop lobby area to assist students with submitting online financial aid applications. Students may use the Online Contact Us Form and questions will be addressed by e-mail.

CONTACT INFORMATION

The Financial Aid Office is part of Student Support Services and is located in the Administration Building. Office hours are: Monday and Thursday, 8:00 a.m. to 4:30 p.m.; Tuesday and Wednesday, 10:00 a.m. to 7:00 p.m.; closed on Friday.

For additional information on financial aid, students are encouraged to visit the Financial Aid Office website at: www.cerritos.edu/finaid, or contact the Financial Aid Office by E-mail: finaid-staff-list@cerritos.edu, or by phone at: (562) 860-2451, Ext. 2397, or by fax at: (562) 467-5035. Questions about financial aid can also be answered through Financial Aid TV video clips at: <http://cerritos.financialaidtv.com/>.

IMPORTANT NOTICE: *The information contained in this document is subject to state, federal and/or other legislative and regulatory change and may be changed without notice.*



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 and 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 higher (2.0) in all courses.
- B. A student must achieve a grade of Pass, or "C", or higher in each course to be counted for the major. Courses completed for a Certificate of Achievement that are also to fulfill requirements for the major in an A.A. degree must be completed with a grade of Pass, or "C", or higher.
- C. A minimum of 12 units of degree applicable work must be completed at Cerritos College, to meet the residence requirement.

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, 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 A.A. degree has been obtained, an additional A.A. 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 A.A. 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 A.A. degree were met in the first A.A. 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 Associate in Arts degree" procedures as detailed for the first A.A..
4. Additional A.A. degrees may be granted for each eighteen (18) degree applicable additional units completed. For example a third A.A. 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 A.A. degree.

ENGLISH/READING COURSE LIMITATIONS

Students completing both English 52 and Reading 54 will be able to count the units from only one course towards the associate in arts degree. Please see a counselor for further information.

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 A.A. 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 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 California State University (CSU) General Education Certification pattern. Students should see a counselor for advice on selecting the A.A. 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 (UC), 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 A.A. 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 A.A. degree, a minimum of 60 CSU transferable units is required. (See transfer requirements for CSU and your counselor.)

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 A.A. degree, a minimum of 60 UC transferable units is required. (See IGETC, UC transfer requirements, and your counselor.)

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



Associate in Arts Degree for General Education 2012-13 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 A.A. 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 Advanced Math Readiness test sufficient for placement in a course above the level of MATH 80 or MATH 80B.
 - b. Completion of MATH 80 or MATH 80B with a grade of Pass, or "C", or higher.
 - c. For other options, see your counselor.
 3. READING PROFICIENCY REQUIREMENT:
This requirement can be met by one of the following options:
 - a. Earn a score on the reading proficiency test sufficient for placement in a course above the level of READ 54.
 - b. Completion of READ 54 with a grade of Pass, or "C", or higher.
 - c. For other options, see your counselor.
- NOTE: Students completing both English 52 and Reading 54 will be able to count the units from only one course towards the associate in arts degree.**
4. WRITING PROFICIENCY REQUIREMENT:
Completion of ENGL 100 with a grade of Pass, or "C", or higher.
 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 114, 120, 121, 122, 123, 124, 125, 126, 127, 130, 131, 132A, 132B, 133, 134, 135A, 135B, 136, 137, 138, 139, 140A, 141, 142, 143, 145, 146, 148, 149A, 149B, 150A, 150B, 151, 153A, 153B, 154A, 154B, 155A, 155B, 156A, 156B, 158A, 158B, 159A, 159B, 160, 161A, 161B, 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, 218, 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, 122, 123, 124, 125, 130, 133, 134, 135, 136, 140, 141, 142, 143, 144

- b. Completion of HED 100, 101, 103, or 200; TH 140-143; HO 100 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 SCIENCES OR BIOLOGICAL SCIENCES
 - (1) Physical Sciences
Astronomy 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 successfully passing the College Board's Advanced Placement Exam, American History. Unit credit is awarded for passing the AP exam option with a score of 3 or higher.)
- (2) Political Science 101 or 201
(This requirement can be met by successfully passing the College Board's Advanced Placement Exam, Government and Politics: United States. Unit credit is awarded for passing the Advanced Placement exam option with a score of 3 or higher.)
- (3) Social and Behavioral Sciences
Administration of Justice 101
Anthropology 100, 120, 170, 200, 201, 202, 203, 205
Business Administration **208
Child Development 110
Child Development/Early Childhood **113

Counseling **150, 200
 Economics 101, 102, 201, 201M, 202, 202M, 204
 Environmental Policy 200
 Finance 125
 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, 205, 210, 215, **225, 230, 250
 Speech 110
 Speech Language Pathology **105
 Women's Studies 101, 106, 202, 204, 205, 206, **208

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

(1) FINE ARTS

Architecture **110, 112
 Art 100, 101, 102, 103, 104, 105A, 105B, 106, 107, *108, *109, 110, 113, 116, 120, 130A, 144, 150, **186, **192, 193
 Dance 100, 101
 Film 159
 Humanities: *108, *109
 Music 100, 101, 102, 103, 104, 104B, 105
 Photography 100, 160
 Theatre 101, 102, 103, 104, **110, 150, RTV 151/TH 151, RTV 152

(2) HUMANITIES

Art *108, *109
 Chinese 101, **102
 English 102, 106, 221A, 221B, 222, 223, 224, 225, 226, 227, 228, 230A, 230B, 232, 233, 234, 235, 236, 237, 238, 245, 246A, 246B, 248A, 248B
 French 101, 102, 201, 202, 203, 285
 German 101, 102, 201, 202
 Humanities 100, *108, *109
 Japanese 101, 102, 201, 202
 Philosophy 100, 102, 104, 105, 107, 108, 109, 200, 201, 203, 204, 205, 206
 Photography 150
 Sign Language 101, 102, 201
 Spanish 101, 102, 111, 112, 201, 202, 206, 210, 245, 285
 Speech 140, **145
 Women's Studies 102, 109

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 100

(2) COMMUNICATION AND ANALYTICAL THINKING

Business Communication **148
 Computer and Information Sciences **101, **102, **103, **178
 Engineering Design Technology **131
 English 101, 103
 Mathematics **80, **80B, 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
 Speech Language Pathology **220

e. Select an additional general education course 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 2012-13 school year and thereafter. Students who enrolled prior to Fall 2012 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 2012-13 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 A.A. 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 higher, which must include the specified general education requirements and designated courses for a major. The Health and Wellness Proficiency requirement must be completed. (See description in Plan A.)

If a student wishes only to transfer and is not seeking an A.A. degree, there are no proficiencies required for CSU GE 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 higher 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 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 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, 113, 116, 120, 130A, 144, 150, 193
Dance 100, 101
Film 159
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
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, 238, 245, 246A, 246B, 248A, 248B
French 101, 102, 201, 202, 203, 285
German 101, 102, 201, 202
History *101, *102, *103, *110, *120, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265, *275
Humanities 100, *108, *109
Japanese 101, 102, 201, 202
Philosophy 100, 102, 104, 105, 107, 108, 109, 200, 201, 203, 204, 205, 206
Photography 150
Sign Language 101, 102, 201
Spanish 101, 102, 111, 112, 201, 202, 205, 206, 210, 245, 285
Speech 140
Women's Studies 102, 109

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 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, 201M, 202, 202M, 204
Environmental Policy 200
Geography 102, 105
History *110, *120, 204, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265, *275
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, 205, 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
Child Development *110
Counseling 200
Finance 125
Health Education 100, 101
Health Occupations 152
Physical Education *106, 141
Psychology *150, 245
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 courses offered by Cerritos College can be found on the ASSIST website at www.assist.org.



Associate in Arts Degree for General Education 2012-13 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 A.A. 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 higher 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 higher, which must include the specified general education requirements and designated courses for a major. The Health and Wellness Proficiency requirement must be completed. (See description in Plan A.)

If a student wishes only to transfer and is not seeking an A.A. 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 this 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 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, 105A, 105B, 106, 107, *108, *109
Dance 100, 101
Film 159
Humanities *108, *109
Music 100, 101, 103, 104, 104B, 105
Photography 160
Theatre 101, 102, 103, 104, 150
- 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, 238, 245, 246A, 246B, 248A, 248B
French 201, 202, 285+
German 102, 201, 202
History *101+, *102+, *103+, *110, *120, *210+, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265, *275
Humanities 100, *108, *109
Japanese 102
Philosophy 100, 102, 104, 105, 107, 108, 109, 200, 201, 203, 204, 205, 206
Photography 150
Sign Language 201
Spanish 102+, 112+, 201, 202, 205, 210, 245, 285+
Women's Studies 102, 109

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, 201M, 202, 202M
Environmental Policy 200
Geography 102, 105
History *101+, *102+, *103+, *110, *120, 204, *210+, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265, *275
Physical Education 106
Political Science 101+, 201+, 210, 220, 230
Psychology 101, 150, 251, 261, 265+, 271
Sociology 101, 110, 120, 201, 202+, 205, 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 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 higher.
- 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 may 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. To assure that appropriate transfer course work is being undertaken at Cerritos College, students should plan to communicate regularly with a counselor.

INDEPENDENT AND OUT-OF-STATE COLLEGES AND UNIVERSITIES TRANSFER REQUIREMENTS

There are many choices for transfer students when deciding to earn a bachelor's degree and beyond. In addition to the California State University and University of California systems, there are many California independent institutions. There are also many colleges, private and public, located throughout the United States to which Cerritos College students can transfer. Each of these institutions has its own unique requirements for admission. In order to determine eligibility, students should refer to the school's catalog or website and consult with a counselor at Cerritos College and/or the university of choice.

GENERAL EDUCATION REQUIREMENTS FOR INDEPENDENT AND OUT-OF-STATE COLLEGES AND UNIVERSITIES

In planning for transfer, students should consider the general education requirements for all institutions of interest. Many in-state independent institutions accept CSU general education and IGETC. Students transferring to independent or out-of-state institutions should refer to the school's catalog or website and meet with a counselor in order to determine appropriate general education requirements. Cerritos College has articulated general education requirements with a number of independent institutions. You can visit the Transfer Center's website at www.cerritos.edu/transfer for a complete list of articulation agreements.

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 higher 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 higher 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.csumentor.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 higher 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 are required. In addition, you must have completed at least 30 semester (45 quarter) units of college courses with a grade of "C" or higher 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. The ENGL 100, oral communication, critical thinking, and transferable mathematics courses must be completed with a grade of "C" or higher.

Although 2.0 is the minimum, the California State University is becoming more competitive and students should try to maintain the highest possible grade point average.

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 and ACT are available from school and 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 California 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 California State University.

Cerritos College is further authorized to certify the partial or complete fulfillment of these requirements. 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 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 higher 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 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 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, 113, 116, 120, 130A, 144, 150, 193
Dance 100, 101
Film 159
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
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, 238, 245, 246A, 246B, 248A, 248B
French 101, 102, 201, 202, 203, 285
German 101, 102, 201, 202
History *101, *102, *103, *110, *120, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265, *275
Humanities 100, *108, *109
Japanese 101, 102, 201, 202
Philosophy 100, 102, 104, 105, 107, 108, 109, 200, 201, 203, 204, 205, 206
Photography 150
Sign Language 101, 102, 201
Spanish 101, 102, 111, 112, 201, 202, 205, 206, 210, 245, 285
Speech 140
Women's Studies 102, 109



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, 201M, 202, 202M, 204

Environmental Policy 200

Geography 102, 105

History *110, *120, 204, *210, *220, *221, *230, *235, *241, *242, *245, *246, *250, *255, *260, *265, *275

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, 205, 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

Child Development *110

Counseling 200

Finance 125

Health Education 100, 101

Health Occupations 152

Physical Education *106, 141

Psychology *150, 245

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 courses offered by Cerritos College can be found on the ASSIST website at www.assist.org.



UNIVERSITY OF CALIFORNIA TRANSFER REQUIREMENTS

The University of California considers you a transfer applicant if you graduated from high school and enrolled in a regular session at another college or university. You cannot 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. For assistance in planning for transfer to the University of California, see a community college counselor or university advisor. Many of the university admissions advisors are available for appointments through the Transfer Center.

CALIFORNIA RESIDENTS

There are three ways in which you can meet the University's minimum admission requirements for transfer students. These requirements are described below. Please note that even though options 1 and 2 are possible, the number of University of California campuses actually accepting students with these two options is very limited.

***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 higher 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.

COURSES TRANSFERABLE 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 2012-13 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 campus.

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 higher. 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 Admissions and Records Office.

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 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, 105A, 105B, 106, 107, *108, *109
Dance 100, 101
Film 159
Humanities *108, *109
Music 100, 101, 103, 104, 104B, 105
Photography 160
Theatre 101, 102, 103, 104, 150
- 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, 238, 245, 246A, 246B,
248A, 248B
French 201, 202, 285+
German 102, 201, 202
History *101+, *102+, *103+, *110, *120, *210+, *220, *221,
*230, *235, *241, *242, *245, *246, *250, *255, *260, *265, *275
Humanities 100, *108, *109
Japanese 102
Philosophy 100, 102, 104, 105, 107, 108, 109, 200, 201, 203, 204,
205, 206
Photography 150
Sign Language 201
Spanish 102+, 112+, 201, 202, 205, 210, 245, 285+
Women's Studies 102, 109

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, 201M, 202, 202M
Environmental Policy 200
Geography 102, 105
History *101+, *102+, *103+, *110, *120, 204, *210+, *220,
*221, *230, *235, *241, *242, *245, *246, *250, *255, *260,
*265, *275
Physical Education 106
Political Science 101+, 201+, 210, 220, 230
Psychology 101, 150, 251, 261, 265+, 271
Sociology 101, 110, 120, 201, 202+, 205, 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 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 higher.
- 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.



BUSINESS, COMMUNITY, ADULT & PATHWAY PROGRAMS

ECONOMIC DEVELOPMENT

The Economic Development Department fulfills the specific educational needs of business and industry. The department provides quality controlled, customized training and services that go beyond the traditional academic curriculum. All training 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 clients.

The department serves companies and industries including aerospace, advanced manufacturing, clean energy, utility and public works, retail chains and others.

Services and training provided by the department include management training, composites and advanced manufacturing, leadership development, language training, as well as seminars, conferences and forums on emerging technologies. For more information, please visit us on the web at www.CerritosTrainsU.com

COMMUNITY EDUCATION

The Community Education department promotes the concept of lifelong learning for the general population. This department provides fee-based not for credit classes, workshops and programs that can be taken by members of our community of any age (from 18 months to 90+ years).

We have a wide variety of course offerings for adults in the topic areas of professional development, entrepreneurship & career, personal enhancement, healthy living, enrichment & interests and motorcycle training programs. For those under the age of 18, we offer classes in academics, art, music and athletics & movement. Also for this age group, we have a well-established and reputable Summer College for Youth program that runs for eight weeks in the summer where students can choose from over 200 classes.

Community Education offers classes/programs throughout the year – the schedule of classes for our department is published four times a year and mailed out to over 175,000 homes in our community. You can always come by our office to pick up a copy of our latest printed schedule, or visit us on the web at www.cerritoscommunityed.com to see all that we have to offer.

We are located in the Community Education building in the far southwest corner of campus, north of New Falcon Way. Our office hours are Monday through Thursday, 8 a.m. – 7 p.m.; Friday, 8 a.m.-4 p.m.; and Saturday, 8 a.m.-12 p.m. For more information call (562) 467-5050.

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. Bilingual English and Spanish support is provided. Adult Education courses include categories such as:

- Apprenticeship
- Assessment Preparation
- Courses for Immigrants - Citizenship
- Elementary and Secondary Basic Skills - GED
- English as a Second Language
- Literacy, Primary and Secondary Education – Plaza Comunitaria
- Occupational Preparation
- Older Wiser Learner (OWL)
- Preparatory Math
- Vocational English as a Second Language

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

- Computers
- Memoir Writing
- Music and Chorus
- Nutrition
- Senior Topics
- Stress Management with Exercise

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.

PATHWAY PROGRAMS

Pathway Programs Department's mission is to create career pathways for in-school youth and out-of-school adults with multiple entry and exit points. Pathways provide clearly delineated steps for students to follow in order to obtain skills that will enable them to obtain a sustainable job and/or continue their education beyond Cerritos College.

Pathway Programs events, services and programs include:

- Bridge Programs
- Career Pathways Speaker Series
- Middle and High School Career Exploration Fairs and Workshops
- Career Exploration and Basic Vocational Skills Workshops
- Counseling
- Job Development
- Secondary Articulation Agreements
- Project Lead the Way – Pre-engineering
- Solidworks Manufacturing Workshops
- Worker Retraining

For more information call (562) 860-2451, Ext. 2487.



Cerritos College Foundation

The Cerritos College Foundation was incorporated in the spring of 1979 as a 501 (c) 3 non-profit organization to serve as a charitable vehicle for the community, individuals, and alumni to assist with financial support to the Cerritos College District beyond that which state funding supports. 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.

The Cerritos College Foundation currently has a 23-member board of directors representing a wide diversity of business, education and community advocacy. The Foundation currently administers 117 scholarships in 25 areas of study and hosts a premier fundraising event annually. In addition, the Foundation has established long-standing relationships with community and business leaders who sponsor specialized vocational training programs and projects. In its ongoing pursuit of excellence, the Cerritos College Foundation emphasizes the importance of cooperative ventures with those served by the College. The Foundation sponsors a Corporate Partners Alliance, which fosters mutual benefit for businesses and the College in the areas of training, workforce development, and added value for their respective products and services.

The Foundation's commitment is to develop financial resources which will enhance and cultivate every program offered at Cerritos College. The goal is to continue the tradition of producing high caliber professionals, leaders, artisans and crafters. The commitment is to strengthen the pursuit of a quality education, while meeting the diverse needs of the students and community.



From left: Paul Martineau, Bellflower Noon Lions Club, scholarship recipients Vanessa Hernandez and Matthew Parks, and Foundation board member and Bellflower Noon Lions Club member Dr. Eric T. Ikeda.

ADMISIÓN AL COLEGIO

Admisión

La admisión a Cerritos College está abierta a cualquier graduado de preparatoria (o escuela secundaria) o su equivalente. Los estudiantes de 18 años de edad o mayores que no hayan obtenido un diploma de preparatoria o su equivalente, podrán asistir siempre y cuando puedan demostrar capacidad de beneficiarse de la enseñanza. Estos estudiantes deberán cumplir con el criterio de admisión de Cerritos College que consiste en obtener un puntaje satisfactorio en el examen de matemáticas, lectura y/o escritura, también conocido como el examen de Ability to Benefit (ATB).

Cerritos College no discrimina en oportunidades de educación ni de empleo por la nacionalidad de origen, la religión, la edad, el género, la identidad de género, la expresión de género, la raza, el color, la condición médica, la información genética, la ascendencia, la orientación sexual, el estado civil, la discapacidad física o mental, que se perciba que él o ella tenga alguna de las características anteriores, que tenga relación con una persona o un grupo con una o más de estas características reales o percibidas, ni cualquier otro estado que proteja la ley en persona o en un ambiente en línea ni si la víctima o víctimas estén relacionadas con el Distrito, ya sea que la ubicación esté o no relacionada con el Distrito.

Residencia

Cualquier estudiante que solicite a cualquier colegio comunitario de California está sujeto a requisitos de residencia que son determinados por el estado de California. Un estudiante, cuya residencia legal se encuentra dentro del estado de California, es elegible para asistir a Cerritos College. Los residentes de cualquier otro estado o país extranjero serán sujetos a una colegiatura foránea.

La residencia legal de cualquier estudiante con estado civil soltero menor de 18 años de edad es basada en la residencia del padre o tutor. Todo estudiante deberá estar listo para presentar prueba de residencia en California.

Para preguntas adicionales podrán dirigirse a la Oficina de Admisión y Registro al (562) 860-2451, ext. 2211, o a la siguiente página electrónica www.cerritos.edu/admissions.

Solicitud de admisión

Todos los estudiantes que soliciten la admisión a Cerritos College deben presentar una solicitud de admisión en la Oficina de Admisión y Registro. Se recomienda someter su solicitud lo más temprano posible. Es responsabilidad de los solicitantes enviar, bajo pena de perjurio, información honesta y verdadera; cualquier falsificación deliberada de información en la solicitud o verificación de residencia puede ser motivo de expulsión de la universidad.

Tan pronto como la Oficina de Admisión y Registro reciba su solicitud, la procesará y le proporcionará un número de identificación así como la fecha y hora en que usted deberá inscribirse. Dicho número de identificación será necesario para completar el proceso de matriculación: examen de evaluación y ubicación, cita en el centro de consejería y asesoría académica y de matriculación. Este mismo número de identificación es también necesario para utilizar el servicio electrónico MyCerritos al igual que otros servicios estudiantiles.

Certificado de estudios

Es posible que sea necesario presentar transcripciones oficiales de escuelas, colegios y universidades anteriores para establecer el requisito previo de elegibilidad. Los certificados de estudios que verifiquen los créditos de otras instituciones podrán ser usados

para completar los requisitos de educación general de CSU, IGETC, certificados de culminación de cursos, grado de asociado de las artes.

Solicitud e Inscripción de Admisión especial de menores

Admisión especial de menores son estudiantes inscritos en grados K-12 sin diplomas de secundaria quienes pueden a la vez beneficiarse de un avance educativo o una carrera técnica/vocacional.

Estudiantes intermedios y avanzados de preparatoria (Programa Puente Universitario)

1. Los directores de escuelas secundarias o encargados deben respaldar y verificar con firma la Forma de Admisión Especial de Menores, dando su consentimiento de que el estudiante es capacitado para recibir instrucción académica universitaria.
2. El padre o tutor debe aprobar la participación del estudiante con firma y consentimiento en la forma Admisión Especial de Menores. Firma del padre o tutor que certifica que el estudiante seguirá las normas y reglas del Colegio.

Elegibilidad Académica

- Todo estudiante que planea inscribirse en cursos para cualquier carrera, debe tener un promedio de calificación de la preparatoria de 2.0 o más alta en su más reciente certificado de estudios.
- Para inscribirse en cualquier curso, el estudiante deberá completar el proceso de evaluación apropiado y tener los prerrequisitos y/o co-requisitos estipulados del curso deseado.
- Los estudiantes que requieran adaptaciones debido a una discapacidad deberán hacer arreglos a través de su distrito escolar K-12, previa consulta con la Oficina de los Servicios y Programas para estudiantes con discapacidad (DSP&S, por sus siglas en inglés) en Cerritos College. Por favor llame al número telefónico (562) 860-2451, ext. 2335, para asistencia.

Restricciones de inscripción

- Estudiantes de preparatoria del último año (sénior) o del nivel intermedio (junior) podrán ser permitidos inscribirse hasta un máximo de 8 unidades. Habrá excepciones y serán sujetas a consideración y aprobación por el Decano de Admisión, Registro y Asistencia.
- Estudiantes de preparatoria no podrán inscribirse en cursos pre-universitarios (1-99) o cursos de educación física.
- Estudiantes de preparatoria no podrán inscribirse en cursos universitarios para compensar una deficiencia de sus cursos preparatorios.
- Todo estudiante que se haya inscrito previamente y que haya dado de baja sus clases y/o no haya hecho un progreso satisfactorio, no le será permitido continuar en el Programa Puente Universitario.
- Ningún estudiante de preparatoria obtendrá estatus de prioridad de inscripción y será responsable por todos los cobros y cuotas aplicables, con la excepción de la cuota de inscripción del estado por unidad de los Colegios comunitarios de California.

Estudiantes de Primaria y Secundaria desde el 10º grado (Programa de Admisión Especial)

1. Los directores de escuelas o encargados deben respaldar y verificar con firma la Forma de Admisión Especial de Menores, dando su consentimiento de que el estudiante es capacitado para recibir instrucción académica universitaria.

2. El padre o tutor debe aprobar la participación del estudiante con firma y consentimiento en la forma Admisión Especial de Menores. Firma del padre o tutor que certifica que el estudiante seguirá las normas y reglas del Colegio.

Cerritos College admitirá a estudiantes de primaria y secundaria con talento extraordinario a partir del 10º grado siempre y cuando reúnan los requisitos estipulados a continuación:

Elegibilidad académica

- El estudiante debe tener un promedio de calificación de 2.5, o más alta, en su más reciente certificado de estudios.
- Para inscribirse en cualquier curso, el estudiante deberá completar el proceso de evaluación del colegio y satisfacer los prerrequisitos y/o co-requisitos estipulados del curso deseado.
- Los estudiantes que requieran adaptaciones debido a una discapacidad deberán hacer arreglos a través de su distrito escolar K-12, previa consulta con la Oficina de los Servicios y Programas para estudiantes con discapacidad (DSP&S, por sus siglas en inglés) en Cerritos College. Por favor llame al número telefónico (562) 860-2451, ext. 2335, para asistencia.

Restricciones de inscripción

- A los estudiantes de 10º grado se les permitirá inscribirse con un máximo de 4 unidades por semestre; excepciones serán consideradas y aprobadas por el Decano de Admisión, Registro y Asistencia. La admisión a cursos está sujeta a la disponibilidad de cupo; también se requiere la aprobación y firma del instructor antes de intentar inscribirse.
- Estudiantes no podrán inscribirse en cursos pre-universitarios (1-99) o cursos de educación física.
- Etudiantes no podrán inscribirse en cursos universitarios para compensar una deficiencia de sus cursos primarios o secundarios.
- Estudiantes que se hayan inscrito previamente y que hayan dado de baja sus clases y/o no hayan hecho un progreso satisfactorio serán permitidos a continuar en el Programa especial de admisión.
- Estudiantes no obtendrán estatus de prioridad de inscripción y serán responsables por todos los cargos y cuotas aplicables, con la excepción de la cuota de inscripción del estado por unidad de los Colegios comunitarios de California.

Inscripción de verano de estudiantes del nivel K-12

Además de lo anterior mencionado, estudiantes menores de edad que deseen asistir a cursos de verano deberán de cumplir con las siguientes condiciones:

- El estudiante deberá demostrar preparación adecuada en la materia solicitada.
- Los cursos pre-universitarios de inglés y matemáticas podrán tomarse siempre y cuando el estudiante haya agotado todos los recursos para inscribirse en los cursos equivalentes en su escuela actual.

Para asistir a Cerritos College a través del Programa Puente Universitario o Programa de Admisión Especial, siga los siguientes pasos a continuación:

1. Complete la Forma de admisión especial de menor (marque el casillero Puente Universitario o Admisión Especial) y la solicitud de admisión de Cerritos College.

2. Escoja la(s) clase(s), tome las pruebas de evaluación y ubicación y complete los pre-requisitos.
3. Admisión especial de estudiantes del nivel K-10 deberán obtener la aprobación del Decano de Admisión, Registro y Asistencia antes de inscribirse.

Se recomienda que estudiantes del Programa Puente Universitario (11-12) se entrevisten con un consejero académico y participen en una Orientación Estudiantil de Nuevo Ingreso.

Para más información, comunicarse al (562) 860-2451, ext. 2211.

MATRICULACIÓN

La matriculación es un proceso diseñado tanto para ayudar a estudiantes en su planeación de estudios como a escoger y lograr sus metas educativas. El proceso invita al estudiante a incorporarse al colegio en un común acuerdo para lograr las metas docentes del estudiante a través de programas, reglamentos y requisitos ya establecidos por el colegio. El acuerdo señala responsabilidades tanto del colegio como del estudiante para lograr dichos objetivos. El objetivo primordial de matriculación es el éxito del alumno.

A continuación se listan los componentes básicos del proceso de matriculación de común acuerdo entre el colegio y el estudiante.

El colegio se compromete a proporcionar:

- Una solicitud y un proceso de admisión.
- Una orientación acerca de programas y servicios del Colegio.
- Examen de inglés, matemáticas, y lectura.
- Consejería y asesoramiento para desarrollar un plan de estudios.
- Un seguimiento en el progreso de evaluación del estudiante para lograr una meta educativa.

El estudiante se compromete a:

- Expresar un amplio interés en el campo educativo una vez admitido al Colegio.
- Si es un nuevo estudiante, debe tomar una nueva sesión de orientación y consejería.
- Declarar una meta educativa antes o cuando se completen 15 unidades.
- Asistir a clases.
- Trabajar de manera diligente para completar las asignaciones de clase.
- Demostrar un esfuerzo para obtener una meta educativa.

Se solicita a todos los estudiantes nuevos, de primer ingreso en la universidad, que participen en las actividades de matriculación; envíen una solicitud y completen la evaluación y orientación. Los estudiantes que hayan completado un grado de asociado o más alto en una institución de educación superior están exentos de participar en actividades del proceso en conjunto. Sin embargo, todo estudiante exento tendrá que participar en una parte del proceso de matriculación.

Hay acomodamiento especial disponible a estudiantes con discapacidades físicas, de comunicación o aprendizaje, o quienes estén en el programa de ayuda financiera y sean identificados para ser elegibles para recibir EOPS. Contacte el centro de consejería para más detalles. Véase más abajo el perfil y las normas generales diseñadas para ayudarlo a completar el proceso de matriculación.

En caso que no cumpla las normas de matriculación, o que no declare un gol educativo para desarrollar un plan de estudios universitario, se suspenderán los servicios de matriculación al estudiante.

Para más información visite el sitio web para matriculación: www.cerritos.edu/counseling.

Admisión

Complete la solicitud de admisión y sométala a la Oficina de Admisión y Registro de Cerritos College, localizada en el edificio de Administración o en línea: www.cerritos.edu. Puede someter en línea la solicitud a través del sitio web www.cerritos.edu seleccionando la opción para aplicar en línea ("Apply Online"). Certificados de estudios de otras instituciones tendrán que comprobar la elegibilidad de prerequisites ya que es estrictamente verificado a la hora de inscribirse.

Examen de evaluación/ubicación

El centro de examen de evaluación y ubicación está localizado en Administración al costado del Centro de carreras y servicios.

"Examen de evaluación/ubicación" es el proceso de reunir información individual del estudiante para facilitar su éxito. En Cerritos College, la evaluación incluye, pero no se limita a, la recopilación de información pertinente a las habilidades de estudio del estudiante, competencia en el lenguaje de inglés, destrezas de computación, revisión de planes de estudios preparatorios o universitarios, pruebas de certificados de estudios o grado de asociados de educación superior de instituciones acreditadas, destrezas de aprendizaje, rendimiento académico, y la urgencia de servicios especiales. Además, el asesoramiento de carreras le da la oportunidad de explorar y aspirar a carreras, goles, intereses y fomentar valores.

¿Necesito tomar un examen de evaluación/ubicación?

Los estudiantes nuevos para el colegio deben completar la evaluación. Los estudiantes que planean inscribirse en clases de matemáticas, inglés, o lectura o que planean obtener un título A.A. deben completar el examen de evaluación antes de inscribirse. Para tomar el examen deberá presentar su número de estudiante y una identificación con fotografía. Todos los exámenes son computarizados.

Exentos de examen de evaluación/ubicación

Los estudiantes que ya poseen un título A.A. o superior no están obligados a tomar el examen de evaluación, pero tendrán que verificar su título presentando documentos oficiales en la Oficina de Admisiones y Registro por lo menos diez días hábiles antes de inscribirse. También pueden someter los formularios de acreditación de requisitos para satisfacer requisitos previos.

Excepciones de evaluación individuales para ubicación de un curso

Inglés

Si Ud. ha completado Inglés 100 o un equivalente a tres o cuatro unidades de un curso de composición de nivel universitario con una calificación de "C" o más alta en un colegio acreditado, Ud. está exento de tomar el examen de inglés de evaluación/ubicación. Por favor someta comprobante (calificaciones o transcripciones) a la Oficina de Admisiones y Registros antes de inscribirse.

Matemática

Si completó Álgebra I, o un nivel más alto, con una calificación "B" o superior en la escuela secundaria o en una Universidad acreditada, presente una constancia de haber completado el curso (reporte de

calificaciones o transcripciones) a la Oficina de Admisiones y Registros antes de su inscripción. Es posible que usted pueda optar por una equivalencia al curso Matemática 80 o un nivel inferior, sin tomar un examen de ubicación. Sin embargo, si busca una equivalencia al curso Matemática 114 o superior, se le requerirá tomar un examen de ubicación, el cual consiste de varios componentes.

Los estudiantes pueden ser ubicados en cursos avanzados de Matemática si obtuvieron una calificación "B" o superior en cursos recientes de Álgebra en dos semestres consecutivos, cursados en una escuela secundaria o en cursos semejantes en una universidad. Se recomienda que estos cursos de Matemática se completen en los últimos tres años. Se requiere una constancia de las calificaciones de una escuela secundaria o universidad.

Cursos avanzados de ubicación

A los estudiantes que hayan participado en los cursos avanzados de ubicación en sus respectivas preparatorias con resultados de 3, 4, o 5 en el examen avanzado de ubicación del consejo universitario, se les otorgarán unidades aplicables para el diploma de grado de asociado.

Química

Favor de leer la sección de prerequisites y recomendaciones listados en cada clase de química. Asegúrese que los prerequisites sean obtenidos antes de inscribirse en un curso.

Tenga en cuenta: Las excepciones mencionadas son opciones de la evaluación para determinar elegibilidad para tomar ciertos cursos. Para cumplir con los requisitos de lectura, matemáticas, y dominio de el idioma inglés, necesarios para calificar para el título A.A. (Associate in Arts degree), revise su catálogo o pregunte a un consejero.

Asistencia en inglés como segundo idioma

Los estudiantes que planeen tomar cursos de ESL (inglés como segundo idioma) necesitan tomar el examen de ubicación CELSA. Favor de llamar al Centro de Evaluaciones al (562) 860-2451, ext. 2599, para obtener el horario o para hacer una cita.

¿Puedo volver a tomar un examen?

Los estudiantes pueden repetir cualquier examen de evaluación una vez DESPUÉS de un periodo de espera de 18 semanas de la fecha original de el examen.

Horario de exámenes de evaluación/ubicación

Hay folletos disponibles en la Oficina de Admisión y Registro, de Asesoría y consejería, de Centro de carreras y servicios, y en el sitio web del colegio en www.cerritos.edu/assessment-center o llame al (562) 860-2451, ext. 2355 para fechas y horarios.

Asistencia para individuos con discapacidades

Cualquier estudiante con discapacidades auténticas puede buscar asistencia alternativa para la administración de exámenes de ubicación en las áreas de inglés, lectura, matemáticas y ESL. Antes de pedir cualquier acomode, una solicitud de ingreso a Cerritos College deberá estar vigente. Reservaciones por adelantado podrán ser hechas a través del Programa y servicios para estudiantes con discapacidades, (562) 860-2451, ext. 2333. Métodos alternativos de administración de exámenes incluirán tiempo ilimitado, letras amplificadas, lupas o la ayuda de un lector o un escribidor.

Orientación

Después de haber cumplido con los exámenes de evaluación, complete una sesión de orientación y consejería. La orientación está disponible en diferentes formatos: En línea, talleres, cursos en línea (Counseling 50), taller en el colegio, y curso en el colegio (Counseling 50). Para inscribirse para un taller de orientación visite la recepción de la Oficina de Consejería o haga una cita al teléfono (562) 860-2451, ext. 2231.

Los talleres incluyen información del campus y preparación para la inscripción.

Los estudiantes deben tomar un examen de evaluación ANTES de asistir a talleres de orientación.

Talleres de orientación y clases de planeación educativa están disponibles a lo largo del semestre. Hay talleres de orientación disponibles en línea en el sitio web del colegio a través de www.cerritos.edu/counseling.

EXENTOS: Los estudiantes transferidos y readmitidos y algunas categorías adicionales de estudiantes. Contacte la Oficina de Consejería para más información acerca de exenciones.

Consejería y asesoría académica

Se solicita a todos los estudiantes nuevos que completen una orientación antes de la inscripción. A los estudiantes que están en período de probatoria de progreso o académica se les limitará la cantidad de unidades que pueden tomar cada semestre con base en su porcentaje de cursos completados y su promedio de calificaciones (GPA, por sus siglas en inglés). Los estudiantes que no hayan optado por un gol educativo y estudiantes que estén inscritos en pre-cursos básicos universitarios se les requiere rotundamente que se reúnan con un consejero o asesor académico para desarrollar un plan educativo de estudios.

Se exhorta a todos los estudiantes que se reúnan con un asesor para asegurarse de que su plan educativo refleje de manera exacta su meta educativa.

Seguimiento

El centro de consejería y asesoramiento y la facultad docente proporciona un número de servicios de seguimiento a los estudiantes matriculados. Esos servicios están diseñados para proveer información pertinente al progreso académico del estudiante. Los servicios especiales son proporcionados a los estudiantes que estén en un período de prueba académica y de progreso, a estudiantes en cursos básicos, y a estudiantes que estén indecisos acerca de sus planes educativos. Se remitirán a estudiantes a servicios fuera o dentro del campus según sean apropiados.

¿Qué son prerequisites, co-requisitos y recomendaciones?

Es determinación de Cerritos Community College guiar a los estudiantes en los cursos en los cuales ellos tendrán la mayor probabilidad de un éxito académico. Por lo tanto los estudiantes se encontrarán con cursos que tengan prerequisites, co-requisitos y/o recomendaciones. Lo anterior describe una necesidad específica de conocimiento y/o destreza que debe de ser aprendida antes que el estudiante intente con éxito continuar al siguiente nivel del curso. Por ejemplo, Inglés 52 deberá tomarse antes que Inglés 100. Este es el ejemplo de un curso que debe tomarse en secuencia. Se les exhorta a los estudiantes a que consulten las descripciones de los cursos en el catálogo del colegio para identificar los prerequisites de un curso.

Los estudiantes actualmente matriculados en un curso con prerequisites en Cerritos College serán permitidos inscribirse en el siguiente curso en secuencia. Por ejemplo, los estudiantes inscritos en

Inglés 52 durante el semestre de otoño podrán inscribirse en Inglés 100 para el semestre de primavera. Sin embargo es la responsabilidad del estudiante asegurarse que ha pasado el curso de prerequisite. Si recibe una calificación insatisfactoria, el estudiante será dado de baja durante el curso del semestre.

Los prerequisites verificados electrónicamente impedirán al estudiante inscribirse en una clase que tenga prerequisites y que no hayan sido satisfactoriamente terminados. Los prerequisites son verificados al momento de inscribirse (ya sea por medio automático o cuando el instructor agrega a un estudiante). Los prerequisites no son verificados cuando el estudiante lo selecciona del menú para agregarlos a la “canasta de compra virtual”.

Para evitar ser denegada la inscripción, los estudiantes deben de completar los exámenes de ubicación de Cerritos College y someter los certificados de estudios si los prerequisites de los cursos son completados en otra institución. Los certificados de estudios son aceptados en la Oficina de Admisión y Registro, o baje la forma de la siguiente página electrónica www.cerritos.edu/admissions-and-records/online-forms.

A continuación están las definiciones de los prerequisites, co-requisitos y/o recomendaciones de cursos:

1. Un prerequisite es cualquier requisito que deberá cumplirse antes que un estudiante pueda inscribirse en un curso. En otras palabras, un “prerequisite” significa un curso que a un estudiante se le requiera completar para probar que está listo para inscribirse en un curso o programa educativo.
2. Un “co-requisito” significa un curso que a un estudiante se le requiera tomar conjuntamente con otro curso. Por ejemplo, si un estudiante se inscribe en Farmacia 60, deberá tomar Farmacia 60L en conjunto.
3. Cuando se hace una “recomendación” para prepararse para un curso es una sugerencia altamente recomendada para antes o durante el trayecto de un curso o un programa educativo pero no es requisito.
4. Una “nota mínima” es una calificación mínima de una “C”. No se otorgará créditos para calificaciones deficientes (“D”, “F”, o “FW”).
5. Una “nota satisfactoria” significa que, para el curso en cuestión, en el historial académico del estudiante se ha anotado con un símbolo de “A”, “B”, “C”, o “P”.

¿Qué significa “desafiar” un prerequisite?

Un prerequisite podrá ser desafiado por estudiantes que hayan presentado razones válidas. Es la responsabilidad del estudiante de proveer información que apoye su petición. El prerequisite a desafiar debe de ser solicitado y resuelto antes que el estudiante se inscriba en el curso. La forma para disputar un prerequisite puede obtenerse en la Oficina de Admisión y Registro, en el centro de consejería y asesoramiento académico, o bajarla de la página electrónica www.cerritos.edu/admissions-and-records/online-forms.

Los estudiantes pueden desafiar un requisito usando el siguiente procedimiento:

1. Complete la forma para disputar un prerequisite.
2. Seleccione una de las cinco opciones listadas en la forma:
 - A. El prerequisite tiene prejuicios o está aplicado de una manera discriminatoria.
 - B. El estudiante puede demostrar que posee el conocimiento equivalente al prerequisite.

- C. El progreso del estudiante está estancado porque el prerrequisito del curso no se ofrece dentro de un periodo razonable.
 - D. El prerrequisito no se ha establecido siguiendo las normas del distrito.
 - E. El prerrequisito no se ha establecido en concordancia con Title 5.
3. Someta la forma completada de su petición a registro académico y comité de regulaciones para su aprobación o negación.
 4. Si la solicitud es aprobada, el estudiante tendrá que inscribirse en el curso en la Oficina de Admisión y Registro en persona. Ni el portal MyCerritos procesará dicha solicitud que ha sido aprobada. Nota importante: El requisito desafiado no será considerado como requisito completado, por lo tanto no aparecerá en su historial académico ni suplirá en el futuro otro requisito parecido.
 5. Si la solicitud para desafiar un requisito es negada, el estudiante deberá obtener el prerrequisito siguiendo el requisito oficial del curso. No hay ningún proceso de apelación.

Debido a la alta demanda de estudiantes que solicitan servicios de consejería y asesoría académica antes de comenzar un nuevo semestre, no hay citas disponibles durante las primeras cuatro semanas antes de comenzar cada semestre. La asesoría de apoyo solo está disponible durante este horario. Comuníquese al Departamento de Asesoría para obtener los horarios programados para la asesoría de apoyo.

Plan de estudios

Los estudiantes deben de tomar los cursos en secuencia. Una vez tomado un curso de cierto nivel, los alumnos no recibirán crédito por cursos que son de un nivel más bajo a los que ya se hayan tomado.

Admisión a clases

Los estudiantes deberán estar oficialmente inscritos antes de asistir a cualquier clase. Si a los alumnos les es imposible asistir al primer día de clases, deberán agotar todos los recursos por contactar al instructor o de lo contrario el instructor podrá darlos de baja por “ausencia”.

Los estudiantes que quieran ingresar a una “clase llena”, deberán estar presentes el primer día de clases. Los instructores podrán agregar a estudiantes a sus clases dependiendo de la disponibilidad de lugares y si los estudiantes han cumplido satisfactoriamente con sus prerrequisitos, si es aplicable.

INFORMACIÓN DE MATRICULACIÓN

Consejería y asesoría académica

Es de mayor importancia saber que cada estudiante inscrito en Cerritos College cuenta con un centro de servicio detallado y extenso de consejería y asesoría académica proveído para asistir a los estudiantes a que logren sus metas académicas de una manera eficiente, completa y sin contratiempos. Los cambios constantes de prerrequisitos y de requisitos por otras instituciones y centros ocupacionales, hace que el contacto continuo del personal de Consejería y asesoría académica sea una parte vital para el éxito y experiencia académica del estudiante.

Los servicios de consejería y asesoría académica consisten en cuatro funciones principalmente:

1. asistencia en planear programas académicos;
2. asistencia en explorar perspectivas y posibilidades de carreras educativas;
3. consultas y remisiones de problemas personales;
4. suministros adicionales de servicios auxiliares tales como clases de superación personal, asistencia para transferirse a otra institución, remisiones a agencias exteriores, orientación de clases y asistencia en interpretación de idiomas.

Estos servicios diversos son ofrecidos por personal profesional entrenado y acreditado para ayudar a estudiantes en las áreas de interés propio. El personal de Consejería y asesoría académica opera en conjunto con todas las divisiones docentes del colegio y se mantiene al tanto de programas educativos tanto dentro del campus como de otras universidades.

A pesar de que el uso de los servicios de asesoría es voluntario, se solicita a todos los estudiantes nuevos, de primer ingreso en la universidad, estudiantes F-1 VISA y algunos estudiantes con ayuda económica que se reúnan con un asesor para la planificación y aprobación de un programa antes de la inscripción. Generalmente el estudiante deberá reunirse con su asesor una vez por semestre. Las citas para consejería deberán hacerse en persona en el Centro de consejería y asesoría académica localizado en el edificio de Administración o por teléfono (562) 860-2451, ext. 2231. La asesoría de apoyo también está disponible de forma limitada. El horario e información de la asesoría académica general está disponible en línea en www.cerritos.edu/counseling.

Oyentes

Es permitido asistir de oyente a Cerritos College. Un estudiante oyente es un estudiante que asiste a un curso o cursos sin recibir créditos en un certificado oficial de estudios. Ingresar de oyente a cualquier curso será posible solamente con la aprobación del instructor para cualquier estudiante que desee tomar un curso ya sea para superación personal o repasar una materia. Los estudiantes que deseen asistir de oyente deben estar conscientes que los cursos que sean tomados como oyente NO aparecerán en el certificado oficial de estudios. Para cursos de oyente no es necesario tener prerrequisitos.

1. Los estudiantes no podrán asistir de oyente a un curso a menos que hayan agotado todas las posibilidades para tomar el curso por crédito.
2. Permiso para entrar de oyente a un curso es concedido bajo criterio del instructor. Consentimiento firmado por el instructor y decano de el departamento pertinente son requeridos.
3. Una vez firmado el consentimiento, el estudiante debe someter la forma de oyente a la Oficina de Admisión y Registro cualquier día durante el semestre después del primer día de clases. (El primer día de clases es considerado el primer día que empieza la clase.)
4. Un estudiante oyente puede revertir el estatus de oyente a crédito para recibir crédito por sus clases antes de finalizar la 5ª semana de clases del ciclo escolar semestral o antes del 30% del término de una clase si es un curso de un periodo corto, con la firma autorizada por escrito por el instructor. El pago de clases para oyentes no es reembolsable y los pagos para clases de crédito deberán ser pagados al contado a la hora de elegir la opción para recibir crédito.
5. Un estudiante que optó por crédito puede revertir el estatus de crédito a estudiante oyente antes de finalizar la 5ª semana de clases del ciclo escolar semestral o antes del 30% del término de una clase si es un curso de un periodo corto, con la firma autorizada por escrito por el instructor. El pago de clases con opción crédito no es reembolsable después de la fecha tope para recibir reembolsos y todos los pagos para clases de estatus oyente deberán ser pagados al contado a la hora de elegir la opción oyente.

- Los estudiantes con opción crédito tienen prioridad sobre los estudiantes con estatus de oyentes. En caso de que un curso cierre después de que un estudiante oyente haya sido admitido, se le podría pedir al estudiante oyente que abandone el curso para ceder su lugar a estudiantes que hayan optado por crédito. Se sugiere enérgicamente el criterio de el profesor.
- La cuota de clases para oyentes es de \$15.00 dólares por unidad (además de la inscripción estudiantil). Estudiantes inscritos en 10 o más unidades pueden asistir gratis de oyente hasta 3 unidades (puede ser una clase de 3 unidades). Los \$15.00 dólares por unidad por clases para oyentes automáticamente serán cobrados si el estudiante baja de 10 unidades.

Para mas informacion sobre la opción de oyente, estudiantes pueden pedir información en la Oficina de Consejería, la Oficina de Asuntos Académicos, la oficina de el departamento pertinente, o la Oficina de Admisión y Registro. Formas para oyentes pueden ser obtenidas en la Oficina de Admisión y Registro.

Procedimiento para agregar clases

- Puede inscribirse en clases a través del portal MyCerritos, Centro Estudiantil (<http://my.cerritos.edu>).
- Pare inscribirse en una clase que está llena, vaya al salón el primer día cuando comienza la clase; esté a tiempo. Pida amablemente al instructor que lo inscriba en la clase; si el instructor lo aprueba, usted no tendrá que hacer nada, la inscripción se hará electrónicamente directamente a la Oficina de Admisión y Registro. Se revisará su récord académico para verificar que cumpla con los prerrequisitos, que not tenga que no tenga detenciones estudiantiles (service indicators –SI), conflictos, o cursos que no han sido aprobados para ser repetidos. Las fechas límite de pago de cuotas están publicadas en el horario de clases actual. Por favor visite MyCerritos en el sitio <http://my.cerritos.edu> o el catálogo de clases para más información acerca de cancelación (dar de baja) de los cursos y detenciones estudiantiles (SI) por falta de pago. Por favor revise su estado de cuenta a través del portal MyCerritos o en la Oficina de Admisión y Registro. Sus matriculaciones deberán ser completadas para las fechas topes publicadas oficialmente.
- No podrán agregar un curso si tienen una restricción o intentan repetir un curso sin autorización previa. (Vea Repetición de cursos).

Procedimientos para darse de baja

De acuerdo a la ley Title 5, sección 58004 y a las normas de Cerritos College, es la responsabilidad del estudiante de participar enteramente en clases una vez que la inscripción ha sido completada. Sin embargo, si hay la necesidad de dar de baja una clase, es la responsabilidad del estudiante de darse de baja a sí mismo.

Se recomienda que los estudiantes tomen la iniciativa de darse de baja oficialmente ellos mismos. Si fallan en darse oficialmente de baja en un curso, como resultado podrán obtener una nota “F” por cada curso y no tendrán acceso a su cuenta estudiantil.

Puede darse de baja a través del portal MyCerritos, Centro Estudiantil en el sitio <http://my.cerritos.edu>. Asegúrese de verificar las fechas topes para recibir reembolsos y grados de “W”. Consulte el “Calendario de fechas importantes” en el horario de clases para obtener las fechas límite específicas. Asegúrese de verificar que se haya dado de baja e imprima una copia del recibo.

Las fechas topes para dar de baja una o más clases deberán llevarse a cabo el último día de la 14ª semana de un semestre de 18-semanas o cuando se complete el 75% de un término de estudios de menos

de 18-semanas o lo que suceda primero. Los archivos académicos de un estudiante que continúe en clases después de la fecha permitida para darse de baja, se les marcará con un símbolo que indique curso autorizado, otro símbolo que no sea una “W”.

El símbolo “W” es considerado “dada de baja confirmada” y no se usará para calcular el promedio de calificación. Sin embargo, el exceso de “W” se usará para determinar factores de periodo de prueba o de expulsión. De igual forma un estudiante que tenga una “W” en la misma clase dos o más veces, pierde el privilegio de prioridad para registrarse para esa clase. Los estudiantes pueden someter la solicitud Petición para repetir un curso, la cual puede ser aprobada o rechazada, a registro académico y comité de regulaciones para una excepción al reglamento para repetir curso por exceso de “W”.

Dar de baja una clase después de la fecha tope

Los estudiantes deberán de haber documentado las circunstancias que pasaron más allá de su control para haberse dado de baja. Ejemplos de dichas circunstancias incluyen, pero no se limitan, lo siguiente: accidentes, enfermedad, cambio de horario en su sitio laboral u otras circunstancias que se puedan documentar. Una “W” oficialmente será anotada permanentemente en su certificado de estudios. Haga una cita con el director de la Oficina de admisión si necesita más información.

Lista de espera

Cerritos College utiliza el sistema lista de espera “pre-pagada”. Esto significa que una vez que usted se haya agregado a una lista de espera de un curso, usted debe hacer todos los pagos pertinentes para ese curso. Consecuentemente la “inscripción automática” entrará en efecto. La “inscripción automática” inscribe oficialmente a estudiantes que están en la lista de espera de un curso siguiendo el orden de prioridad una vez que un espacio se haga disponible. Cada estudiante está limitado a un máximo de 10 unidades en la lista de espera. La “inscripción automática” no procederá si:

- El estudiante tiene una restricción en su cuenta.
- El prerrequisito de la clase no ha sido completado.
- Repetición no autorizado del curso.
- Hay un conflicto en el horario de clases. El estudiante no se podrá inscribir simultáneamente en dos clases que tengan el mismo horario.
- Si usted está inscrito en una clase Y ESTÁ en una lista de espera de la misma clase (ej., si Ud. está inscrito en Sociología 101 y también está en el lugar #1 en la lista de espera de otra clase de Sociología 101) perderá el lugar debido a “inscripción múltiple”.

Inscripción automática estará en efecto hasta el viernes antes de que comience la clase. Asistencia el primer día de clases es requerida para inscribirse o permanecer en la lista de espera. Si no se presenta a clases NO implica que se dará de baja automáticamente o recibirá un reembolso. Si usted no desea entrar en la clase, por favor dese de baja de la lista de espera para evitar una calificación deficiente o la pérdida de su reembolso.

Unidades de estudios por semestre

Para graduarse en cuatro semestres, los estudiantes deberán cursar entre un promedio de 16 unidades transferibles y acreditables por cada semestre. Los estudiantes que deseen tomar más de 18 unidades por semestre, dichas unidades deberán ser aprobadas por un asesor académico. Otras limitaciones en unidades son:

Estudiantes extranjeros con visa no menos de 12 unidades.
Atletas intercolegiales no menos de 12 unidades.

Repetición de cursos

En el Colegio de Cerritos registro de previos cursos es revisado electrónicamente para averiguar previos atentados. La mayoría de los cursos tienen limitación de repetición. El Colegio de Cerritos ofrece algunos cursos que tienen un designado número de repeticiones.

Estudiantes pueden repetir un curso en el cual sus calificaciones son deficientes (D, F, NP, FW) or “W” en cualquiera de estas combinaciones y han recibido una vez sin llenar una petición. Antes de una segunda petición (tercer enlista) de un curso, los estudiantes deben someter una petición y recibir aprobación al Comité de Records y Regulaciones Académicas. Una vez completado un curso repetido, la calificación más reciente será computada en el promedio de calificación general y el historial académico será permanentemente anotado.

Cuando un estudiante repite un curso para mejorar deficiencias académicas, la calificación y crédito anterior no se tomarán en cuenta en la computación de el promedio de calificación general, pero permanecerán en su historial académico. Cursos que sean repetidos aparecerán en el historial académico anotados como corresponde. Cuando una repetición de curso ocurra, el historial académico será permanentemente anotado de una manera entendible y verídica.

Los estudiantes pueden transferir cursos equivalentes de cualquier colegio, universidad o institución académica acreditada para reemplazar un curso tomado en Cerritos College que haya tenido una deficiencia académica si el curso fue tomado después de haber resultado en deficiencia en Cerritos College. El estudiante deberá someter una petición al Comité de Records y Regulaciones Académicas para que registren el cambio. El colegio puede honrar las acciones de curso previamente repetido de otros colegios o universidades para determinar la aceptación de créditos, sujeta a petición del estudiante y aprobación de el Comité de Records y Regulaciones Académicas.

Ejemplos de excepciones para la consideración de las limitaciones para repetir un curso

Una petición de Registros Académicos y Regulaciones deberá ser sometida para solicitar oficialmente ciertos tipos de repeticiones. Contacte la Oficina de Admisiones y Registros para instrucciones específicas.

1. Estudiantes que hayan recibido una “MW” (Dado de Baja Militarmente).
2. Estudiantes con deficiencias cuyas calificaciones son resultado de circunstancias fuera de su control.
3. Cursos en cooperación con trabajo de experiencia, sujetos a determinados máximos tal como se definiera en los procedimientos administrativos de el colegio.
4. Ciertos tipos de actividades o cursos para ganar habilidades, sujetos a determinados máximos tal como se definiera en los procedimientos administrativos de el colegio.
5. Ciertos cursos para estudiantes con incapacidades, sujetos a determinados máximos tal como se definiera en los procedimientos administrativos de el colegio.
6. La repetición necesaria debido a un mandato legal para entrenamiento. *Dichos cursos pueden ser repetidos un sinnúmero de veces, a pesar de que dicho curso ha sido oficialmente registrado en el plan de estudios o haya tenido una deficiencia en calificación, y la calificación recibida en cada instancia deberá ser incluida en el certificado de estudios como propósito de calcular el promedio de calificación del estudiante (Title 5, Division 6, Ch. 6 Subchapter 9, §55763).
7. Después de un tiempo calificado como significativo tal como se definiera en los procedimientos administrativos de el colegio.

Cambio de domicilio

Cambios de domicilios deben de ser inmediatamente reportados a la Oficina de Admisión y Registro. Cualquier negligencia tendrá como resultado el retraso de fechas para inscripción o el retraso de otras notificaciones importantes. Los cambios de domicilio pueden hacerse en línea al sitio web www.cerritos.edu, en el portal My Cerritos.

Unidades

Cada curso tomado vale cierto número de “unidades”. Este número es determinado dependiendo el tipo de clase y el número de horas que dura por semana. Por ejemplo, una clase de lectura de tres (3) unidades (inglés o salud) equivale a tres horas por semana durante el periodo regular de 18 semanas que dura un semestre, pero una clase de laboratorio de una (1) unidad equivale a tres horas por semana.

Definición de una hora de clase

Una hora de clase se define como 50 minutos. Las clases programadas para durar más de una hora siguen fórmulas para permanecer cerca a esta definición. Por ejemplo, una clase programada de 6:00 a 7:30 p. m. (90 minutos) realmente tiene 80 minutos, permitiendo un periodo libre de 10 minutos. Las clases más largas requieren descansos. Cerritos College sigue estos patrones de tiempo.

Crédito de unidades por servicio militar

Soldados que hayan estado al servicio activo por un periodo de un año o más y quienes hayan sido dados de baja honorablemente sin haber desertado podrán recibir cuatro (4) unidades de crédito. Las unidades serán designadas como “Crédito por servicio militar” en el certificado de estudios. Para solicitar estas unidades el militar deberá presentar la forma D.D. #214 a la Oficina de Admisión y Registro. Los créditos serán aplicables al Diploma A.A. solamente y no serán aplicables a ningún programa de certificados.

Militares que se dan de baja

De acuerdo al código de educación 66023, el Consejo de administración de fideicomisos de Cerritos College no impugna a estudiantes que se dan de baja de clases y que son miembros activos de la reserva del servicio militar de los Estados Unidos y quienes reciben órdenes para darse de baja de cursos. Después de haberse verificado dichas órdenes, el estudiante será dado de baja por la administración de todos los cursos y un símbolo “MW” que significa dado de baja por asuntos militares será asignado. No habrá sanción por darse de baja por asuntos militares. Darse de baja por asuntos militares no se contará para poner en periodo de prueba académica ni expulsión.

Clasificación de estudiantes

Estudiante de primer año (Freshman): Aquellos que han acumulado menos de 30 unidades.

Estudiante de segundo año (Sophomore): Aquellos que han acumulado 30 o más unidades pero menos de 60 unidades, o aquellos que han completado 60 unidades y que no tienen un certificado.

Estudiante graduado: Aquellos que han obtenido un grado de asociado de las artes o un grado más alto.

Estudiante de tiempo completo: Estudiante inscrito en 12 o más unidades.

Estudiante de tiempo parcial: Estudiante inscrito en menos de 12 unidades.

Programa puente: Estudiante que en la actualidad asiste al onceavo (11º) o doceavo (12º) grado de la secundaria y quien desea inscribirse para obtener crédito universitario.

Admisión especial: Estudiante actualmente inscrito en el décimo grado (K-10th) quien desea inscribirse para obtener crédito universitario.

CURRICULUM AND REQUIREMENTS FOR MAJORS AND CERTIFICATES



ASSOCIATE DEGREE PROGRAMS, SB1440 CERTIFICATES OF ACHIEVEMENT, TRANSFER AND VERIFICATIONS OF COMPLETION

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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.
7. Courses completed for a Certificate of Achievement that are also to fulfill requirements for the major in an A.A. Degree must be completed with a grade of Pass, or "C" or better.

REQUIREMENTS FOR THE ASSOCIATE IN ARTS FOR TRANSFER (AA-T) OR ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

California Community Colleges are now offering associate degrees for transfer to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to CSU program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units.

Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

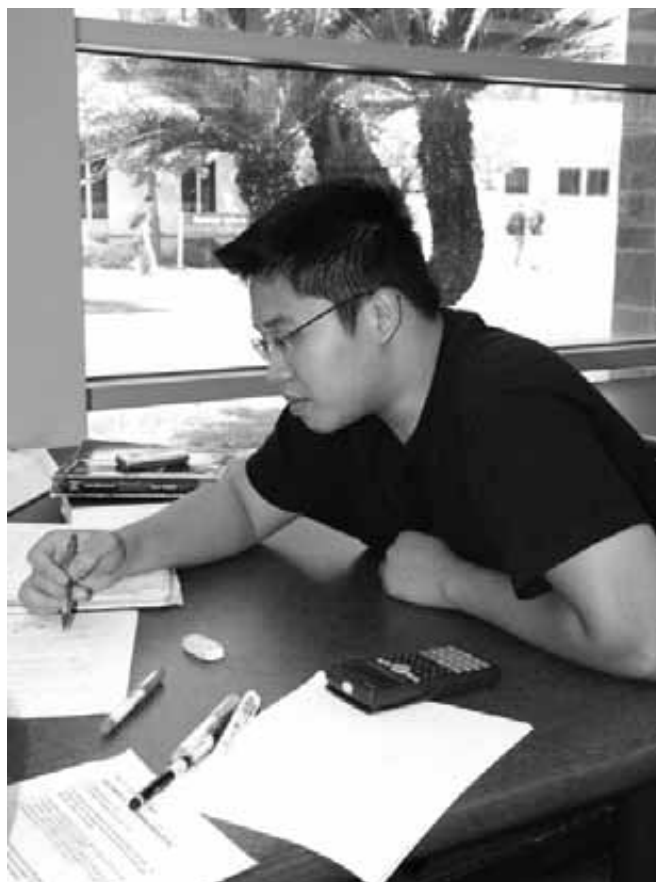
REQUIREMENTS

The following is required for all AA-T or AS-T Degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an "AA-T" or "AS-T" major as detailed in the Majors, and Certificates section of the catalog. All courses in the major must be completed with a grade of "C" or better or a "P" if the course is taken on a "pass-no pass" basis (title 5 § 55063).
4. Certified completion of the California State University General Education-Breadth pattern (CSUGE Breadth) (see page 50 for more information); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern (see page 52 for more information).

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.



ACCOUNTING

CAREER OPPORTUNITIES:

Accountant
Tax Preparer
Marketer

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
ACCT 133 Computerized Spreadsheet Accounting	3
ACCT 201 Intermediate Accounting I	4
ACCT 202 Intermediate Accounting II	4
FIN 125 Personal Finance	3
or ACCT 60 QuickBooks Accounting	(1.5)
and ACCT 61 Turbo Tax Accounting	(1.5)
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:	33.5

*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/A.A. Degree is nontransferable.

RECOMMENDED COURSES

BA 100 Fundamentals of Business	3
LAW 111 Business Law	3
BCOT 147 Business Communications	3

Please see a Business Counselor or the respective department chairperson for additional alternatives.

ADVANCED ACCOUNTING

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
Complete the Accounting Certificate Requirements:	33.5
Plus any three of the following four courses:	
ACCT 240 Cost Accounting	4
ACCT 241 Managerial Accounting	4
ACCT 270 Fundamentals of Auditing	3
ACCT 280 Advanced Accounting	3
TOTAL CERTIFICATE REQUIREMENTS:	43.5/44.5

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.

RECOMMENDED COURSE

LAW 110 Business Law	3

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable.

Please see a Business Counselor or the respective department chairperson for additional alternatives.

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
ACCT 133 Computerized Spreadsheet Accounting	3
FIN 125 Personal Finance	3
or ACCT 60 QuickBooks Accounting	(1.5)
and ACCT 61 Turbo Tax Accounting	(1.5)
FIN 51 Retirement Planning and Investing	1.5
CIS 102 Introduction to Microcomputer Hardware & Applications Software	3
TOTAL CERTIFICATE REQUIREMENTS:	20.5

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.

RECOMMENDED COURSES

*ACCT 130 Payroll Tax Accounting	3
LAW 111 Business Law	3
BCOT 108 WordPerfect for Windows	3.5
or BCOT 112 Microsoft Word	(3.5)
BCOT 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/A.A. 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:	20.5
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:	29.5

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.

RECOMMENDED COURSES

BA 100	Fundamentals of Business	3
LAW 111	Business Law	3
BCOT 108	WordPerfect for Windows	3.5
or BCOT 112	Microsoft Word	(3.5)

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable.

Please see a Business Counselor or the respective department chairperson for additional alternatives.

PAYROLL ADMINISTRATION

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
ACCT 60	Quickbooks Accounting	1.5
ACCT 100	Introduction to Accounting	3
ACCT 130	Payroll Tax Accounting	3
ACCT 133	Spreadsheet Accounting I	3
ACCT 230	Advanced Payroll Accounting	3
or ACCT 250	Income Tax Accounting	(3)
ACCT 231	Current Topics in Payroll Accounting	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:		21

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.

RECOMMENDED COURSES

ACCT 101	Fundamentals of Accounting I	4
ACCT 131	Computerized Accounting –IBM	3
BA 117	Introduction to Supervision	3
BCOT 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/A.A. Degree is nontransferable.

Please see a Business Counselor or the respective department chairperson for additional alternatives.

ADMINISTRATION OF JUSTICE

ASSOCIATE IN ARTS DEGREE

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

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

CAREER OPPORTUNITIES:

Police Officer
Deputy Sheriff
Correctional Officer
Investigator

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 Major Requirements provides the educational potential for advancement to supervisory and management positions or entry to graduate studies or law school.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete a minimum of 60 units, including: (1) the Administration of Justice Core and Department requirements, (2) A.A. Degree General Education requirements, and (3) additional elective courses as needed.

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	Social Problems	(3)

ELECTIVE GROUP

AJ 71	First Aid (AJ)	2
AJ 107	Introduction to Probation and Parole	3
AJ 173	A.J. Occupational Work Experience	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
LAW 100	Introduction to California Civil Procedures	3
LAW 101	Introduction to Law	3
LAW 103	Legal Research	3

ADMINISTRATION OF JUSTICE

ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER (AS-T)

REQUIRED CORE (3)	UNITS
AJ 101 Introduction to Administration of Justice	3
AJ 102 Concepts of Criminal Law	3

List A: Select any two of the following courses (6 units total)

AJ 103 Criminal Procedures	3
AJ 104 Criminal Evidence	3
AJ 105 Community Relations	3
AJ 107 Introduction to Corrections, Probation and Parole	3
AJ 220 Criminal Investigation	3
AJ 222 Juvenile Procedures	3

List B: Select any two of the following courses (6 units total)

SOC 101 Introductory Sociology Principles	3
PSYC 201 Elementary Statistics	4
or MATH 112 Elementary Statistics	(4)
PSYC 101 General Introductory Psychology	4
AJ 110 Patrol Procedures and Enforcement Tactics	3
AJ 173 Administration of Justice Occupational Work Experience	3
AJ 202 Substantive Law	3
AJ 208 Special Issues in Law Enforcement	3
AJ 221 Narcotics and Vice Control	3

ASSOCIATE IN SCIENCE IN ADMINISTRATION OF JUSTICE FOR TRANSFER REQUIREMENTS:

Maintain a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

Complete a minimum of 18 semester units in the major as detailed in the catalog. Each course in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis (title 5 55063).

Be certified as having completed the California State University-General Education- Breadth pattern (CSU- GE Breadth); OR the Inter-segmental General Education Transfer Curriculum (IGETC) pattern. II Students should note that no more than 60 units are required for this degree and that no additional requirements will be imposed by Cerritos College. In addition, no developmental or non-collegiate level course work will be counted in the total units for this degree.

ANTHROPOLOGY

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

ANTH 100 Cultural Anthropology	3
ANTH 115 Physical Anthropology	3
ANTH 120 Introduction to Archaeology	3
ANTH 170 Introduction to Language and Culture	3

Select any two additional 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 Magic, Witchcraft and Religion	3
ANTH 205 The Anthropology of Sexuality and Gender	3
SOC 205 Introduction to Social Research Methods	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete a minimum of 60 units to include (1) the above courses and units, (2) the A.A. Degree General Education requirements, and (3) electives as needed

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. 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

CAREER OPPORTUNITIES:

Architectural Draftsperson
Architectural CAD Drafter

CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES	UNITS
ARCH 110 Introduction to Architecture and Environmental Design	3
or ARCH 114 Green Architecture and LEED	(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 2D Computer Aided Drafting	4
ARCH 212 Architectural Design Theory I	3
ARCH 213 Introduction to 3D Computer Aided Drafting	4
ARCH 221 AutoCAD Architecture	4
or ARCH 223 REVIT Architectural	(3)
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 A.A. 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 Draftsperson or Architectural CAD Drafter.

RELATED TRANSFER PROGRAMS: See Architecture and Industrial Technology – Construction.

See Counseling for information.

ART AND DESIGN

CAREER OPPORTUNITIES:

Advertising*	Gallery Director/Assistant
Antique Dealer	Layout Artist
Architect*	Museum Docent*
Art Therapist*	Painter/Sculptor
Cartoonist	Police Artist
Ceramist/Ceramics Lab Tech	Product Designer*
Curator*	Teacher/Professor*
Computer Game Designer*	Technical Illustrator
Designer (floral, graphics, interior)*	Textile/Garment Designer*

*Bachelor's degree normally required.

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—Beginning Wheelthrowing	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) A.A. Degree General Education requirements and (3) electives as needed.

COMPUTER ANIMATION

CERTIFICATE OF ACHIEVEMENT

REQUIRED COURSES

	UNITS
ART 101	Art History I: Prehistory to Gothic
or ART 103	Art History III: Neoclassical to Present
ART 110	Freehand Drawing
ART 112	Life Drawing
ART 114	Storyboard and Animation Principles for Film
ART 120	Two-Dimensional Design
ART 121	Three-Dimensional Design
ART 190	Animation Principles
ART 191A	3D Computer Animation
ART 195	3D Modeling for Animation
ENGL 240	Creative Writing
MUS 244	Digital Audio Post Production

TOTAL CERTIFICATE REQUIREMENTS: 33

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the requirements for a Certificate of Achievement in Computer Animation. For an A.A. Degree, a student must also take 6 units selected from the following courses: ART 192, ART 194, ART 196, FILM 102 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 Animation Principles for Film	3
ART 120 Two-Dimensional Design	3
ART 121 Three-Dimensional Design	3
ART 182A Lettering and Typography	3
ART 182B Letting and Typography	3
ART 190 Animation Principles	3
ART 198 Motion Graphics	3
MUS 244 Digital Audio Post Production	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete requirements for a Certificate of Achievement in Motion Graphics. For an A.A. Degree, a student must also take 6 units selected from the following courses: ART 192, ART 194, ART 196, FILM 102 and General Education requirements to achieve a minimum of 60 units.

AUTOMOTIVE COLLISION REPAIR

CAREER OPPORTUNITIES:

Automotive Collision Repair Technician
Body and Frame Repair Technician
Assistant Body and Frame Repair Technician
Shop Foreman

GENERAL AUTOMOTIVE COLLISION REPAIR CERTIFICATE OF ACHIEVEMENT

	UNITS
AB 51 Non-Structural Repair	4.5
AB 52 Structural Damage Repair	4.5
AB 53 Suspension, Alignment and Power Train Damage	4.5
AB 54 Advanced-Design Panel Repair	4.5
AB 55 Structural Panel Replacement	4.5
AB 61 Preparation and Spot Refinishing	3.0
AB 61L Automotive Refinishing Lab	1.5
TOTAL CERTIFICATE REQUIREMENT	27

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Meet the requirements for your chosen Certificate (listed above) plus complete such electives and General Education Plan A, B or C requirements to achieve a minimum of 60 units. A minimum of 10 units of non-duplicated courses from the listed certificates and/or from below can be part of your electives.

RECOMMENDED ELECTIVES: AB 56, AB 57, AB 58L, AB 59M, AB 59B, AB 62, AB 63, AB 65, AB 66, AB 68L, AB 73, AB 75, AB 76, AB 77, AB 79L, AB 80, AB 83A, AB 83P, AB 83U, AB 86, AB 88, AB 181, AB 182, AB 183, AB 188, AB 281, AB 282, AB 283, AB 285, AB 286, AB 287, AB 288.

AUTOMOTIVE MECHANICAL REPAIR TECHNOLOGY

CAREER OPPORTUNITIES:

General Auto Mechanic
Parts Clerk
Mechanical and Auto Agencies or Commercial Fleets

CERTIFICATES OF ACHIEVEMENT

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

ELECTRICAL/DIAGNOSIS TECHNICIAN	UNITS
AUTO 100 Automotive Maintenance and Operation	4
AUTO 110 Automotive Engines	5
AUTO 160 Automotive Electricity	5
AUTO 170 Automotive 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 Systems – 1997 Standards	5
	36

ENGINE/MACHINING TECHNOLOGY	UNITS
AUTO 100 Automotive Maintenance and Operation	4
AUTO 110 Automotive Engines	5
AUTO 210 Automotive Machine Shop	5
AUTO 211 High Performance Engines	5
AUTO 212 Automotive Specialty	2
	21

MANUFACTURE SPECIALTY	UNITS
AUTO 73 Automotive Mechanical Repair Occupational Work Experience	15
AUTO 111 Automotive Engines	4
AUTO 121 Drivetrain Transmissions and Axles	6
AUTO 151 Automotive Alignment, Brake and Suspension	6
AUTO 161 Automotive Electricity	7
AUTO 179 Automotive Air Conditioning	4
AUTO 181 Electronic Engine Management Systems – Corporate	6
	48

AUTOMOTIVE MANAGEMENT	UNITS
AUTO 100 Automotive Maintenance and Operation	4
AUTO 190 Automotive Management	3
AUTO 193 Automotive Service Information Management	3
AUTO 194 Retailing Automotive Service	3
AUTO 195 Automotive Customer Relations	3
BA 114 Marketing	3

Curriculum and Requirements for Majors and Certificates

BA 115	Management - Business	3
or BA 117	Introduction to Supervision	(3)
		—
		30

* Select 3 units from the following: BA 104, BA106, BA 113, BA 120, BA 156

* Additional 5 units from any Automotive course(s).

ALTERNATE FUELS SERVICE TECHNICIAN

		UNITS
AUTO 54	Introduction to Electric Vehicles	4
AUTO 55	Advanced Technology Electric Vehicles	3
AUTO 100	Automotive Maintenance and Operation	4
AUTO 108	Energy and Transportation Systems	4
AUTO 109	Automotive Diesel Systems	5
AUTO 160	Automotive Electricity	5
AUTO 182	Introduction to Alternative Fuels	3
AUTO 281	Emission Control Systems – 1997 Standards	5
		—
		34

RECOMMENDED ELECTIVES: AUTO 180 and AUTO 260.

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 and 3) electives as needed.

RECOMMENDED ELECTIVES: WELD 100, MTT 100, BCOT 147, BCOT 148, MFGT 100.

BUSINESS ADMINISTRATION

CAREER OPPORTUNITIES:

Business
Industry
Government
Self-Employment

BUSINESS ADMINISTRATION

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
BA 100	Fundamentals of Business
BA 113	Legal Environment of Business
or LAW 111	Business Law
BA 114	Marketing
or ECON 201	Principles of Macroeconomics
BA 115	Management Business
BA 120	Management–Accounting and Internal Control
or ACCT 100	Introduction to Accounting
BA 132	Computer Applications for Managers
or CIS 101	Introduction to Computer Information Systems
	—
TOTAL CERTIFICATE REQUIREMENTS:	18

RECOMMENDED COURSES:

ACCT 100	Introduction to Accounting	3
BA 113	Legal Environment of Business	3
BA 208	Leadership for Women in Business	3
CIS 101	Introduction to Computer Information Systems	3

ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
SPCH 100	Fundamentals of Oral Communication	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the department requirements for a Certificate of Achievement in Business Administration

Plan A: To obtain an A.A. Degree, complete the department requirements, take 12 units from the Recommended Courses, and complete the requirements for Plan A (Degree and/or Career Option) in the Cerritos College Catalog.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements, and complete the requirements for Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements, and complete the requirements for Plan C (Intersegmental General Education Transfer Curriculum- IGETC-for transfer to UC and CSU) in the Cerritos College Catalog.

BUSINESS MANAGEMENT

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
BA 100	Fundamentals of Business
BA 101	International Business
or BA 117	Fundamentals of Supervision
or BA 153	Small Business Management
BA 107	Human Relations in Business
BA 113	Legal Environment of Business
or LAW 111	Business Law
BA 115	Management-Business
BA 132	Computer Applications for Managers
or BA 156	Motivational Presentation Skills for Managers
BA 204	Project Management
	—
TOTAL CERTIFICATE REQUIREMENTS:	21

RECOMMENDED COURSES:

ACCT 100	Introduction to Accounting	3
BA 113	Legal Environment of Business	3
BA 208	Leadership for Women in Business	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
SPCH 100	Fundamentals of Oral Communication	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the department requirements for a Certificate of Achievement in Business Management

Plan A: To obtain an A.A. Degree, complete the department requirements, take 12 units from the Recommended Courses, and complete the requirements for Plan A (Degree and/or Career Option) in the Cerritos College Catalog.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements, and wording complete the requirements for Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements, and complete the requirements for Plan C (Intersegmental General Education Transfer Curriculum - IGETC-for transfer to UC and CSU) in the Cerritos College Catalog.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable. Please see a Business Counselor or the respective department chairperson for additional alternatives.

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
BA 157	Principles of Public Relations	3
or JOUR 157	Principles of Public Relations	(3)
TOTAL CERTIFICATE REQUIREMENTS:		21

RECOMMENDED COURSES:

ACCT 100	Introduction to Accounting	3
BA 113	Legal Environment of Business	3
BA 208	Leadership for Women in Business	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
SPCH 100	Fundamentals of Oral Communication	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the department requirements for a Certificate of Achievement in Business Marketing

Plan A: To obtain an A.A. Degree, complete the department requirements, take 12 units from the Recommended Courses, and complete the requirements for Plan A (Degree and/or Career Option) in the Cerritos College Catalog.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements, and complete the requirements for Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements, and complete the requirements for Plan C (Intersegmental General Education Transfer Curriculum- IGETC-for transfer to UC and CSU) in the Cerritos College Catalog.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is wording nontransferable. Please see a Business Counselor or the respective department chairperson for additional alternatives.

HUMAN RESOURCE MANAGEMENT

ASSOCIATE IN ARTS DEGREE

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BA 50	Business Math for Managers	3
or MATH 60	Elementary Algebra	(4)
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 109	Human Resource Development	3
BA 113	Legal Environment of Business	3
or LAW 111	Business Law	(3)
BA 132	Computer Applications for Managers	3
or BCOT 114	Introduction to Microsoft Office	(3)
or CIS 101	Introduction to Computer Information Systems	(3)
BA 156	Motivational Presentation Skills for Managers	3
or BCOT 148	Effective Business Presentations	(3)
or SPCH 100	Fundamentals of Oral Communication	(3)
BA 157	Principles of Public Relations	3
or BCOT 54	Business Writing for Managers	(3)
or BCOT 147	Business Communications	(3)
or ENGL 52	Introduction to College Composition	(3)
TOTAL CERTIFICATE REQUIREMENTS:		30/31

RECOMMENDED COURSES:

ACCT 100	Introduction to Accounting	3
BA 113	Legal Environment of Business	3
BA 208	Leadership for Women in Business	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
SPCH 100	Fundamentals of Oral Communication	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the department requirements for a Certificate of Achievement in Human Resource Management.

Plan A: To obtain an A.A. Degree, complete the department requirements, take 12 units from the Recommended Courses, and complete the requirements for Plan A (Degree and/or Career Option) in the Cerritos College Catalog.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements, and complete the requirements for Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements, and complete the requirements for Plan C (Intersegmental General Education Transfer Curriculum-IGETC-for transfer to UC and CSU) in the Cerritos College Catalog.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable. Please see a business Counselor or the respective department chairperson for additional alternatives.

INTERNATIONAL BUSINESS**CERTIFICATE OF ACHIEVEMENT**

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BA 101	International Business	3
BA 102	International Business Law	3
or BA 113	Legal Environment of Business	(3)
or LAW 111	Business Law	(3)
BA 104	Managing Cultural Diversity	3
BA 114	Marketing	3
BA 120	Management–Accounting and Internal Control	3
or ACCT 100	Introduction to Accounting	(3)
BA 152	Fundamentals of Importing and Exporting	3
or BA 155	Introduction to Global Logistics	(3)
ECON 101	Economic Issues and Policy	3
or ECON 201	Principles of Macroeconomics	(3)
TOTAL CERTIFICATE REQUIREMENTS:		21

RECOMMENDED COURSES:

ACCT 100	Introduction to Accounting	3
BA 113	Legal Environment of Business	3
BA 208	Leadership for Women in Business	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
SPCH 100	Fundamentals of Oral Communication	3

A Foreign Language is recommended.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the department requirements for a Certificate of Achievement in Human Resource Management.

Plan A: To obtain an A.A. Degree, complete the department requirements, take 12 units from the Recommended Courses, and complete the requirements for Plan A (Degree and/or Career Option) in the Cerritos College Catalog.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements, and complete the requirements for Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements, and complete the requirements for Plan C (Intersegmental General Education Transfer Curriculum-IGETC-for transfer to UC and CSU) in the Cerritos College Catalog.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable. Please see a business Counselor or the respective department chairperson for additional alternatives.

RETAIL MANAGEMENT**CERTIFICATE OF ACHIEVEMENT**

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BA 50	Math for Business and Finance	3
or MATH 60	Elementary Algebra	(4)
BA 106	Human Resource Management	3
BA 107	Human Relations in Business	3

BA 114	Marketing	3
BA 115	Management – Business	3
or BA 205	Organizational Leadership	(3)
or BA 208	Leadership for Women in Business	(3)
BA 118	Retail Management	3
BA 120	Management – Accounting and Internal Control	3
or ACCT 100	Introduction of Accounting	(3)
BA 132	Computer Applications for Managers	3
or BCOT 114	Introduction to Microsoft Office	(3)
or CIS 101	Introduction to Computer Information Systems	(3)
BA 156	Motivational Presentation Skills for Managers	3
or BCOT 148	Effective Business Presentations	(3)
or SPCH 100	Fundamentals of Oral Communication	(3)
BA 157	Principles of Public Relations	3
or BCOT 54	Business Writing for Managers	(3)
or JOUR 157	Principles of Public Relations	(3)
or BCOT 147	Business Communications	(3)
or ENGL 52	Introduction to College Composition	(3)
TOTAL CERTIFICATE REQUIREMENTS:		30/31

TOTAL CERTIFICATE REQUIREMENTS:

30/31

RECOMMENDED COURSES:

ACCT 100	Introduction to Accounting	3
BA 113	Legal Environment of Business	3
BA 208	Leadership for Women in Business	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
SPCH 100	Fundamentals of Oral Communication	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the department requirements for a Certificate of Achievement in Human Resource Management.

Plan A: To obtain an A.A. Degree, complete the department requirements, take 12 units from the Recommended Courses, and complete the requirements for Plan A (Degree and/or Career Option) in the Cerritos College Catalog.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements, and complete the requirements for Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements, and complete the requirements for Plan C (Intersegmental General Education Transfer Curriculum-IGETC-for transfer to UC and CSU) in the Cerritos College Catalog.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable. Please see a business Counselor or the respective department chairperson for additional alternatives.

SMALL BUSINESS MANAGEMENT/ENTREPRENEURSHIP**CERTIFICATE OF ACHIEVEMENT**

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BA 113	Legal Environment of Business	3
or LAW 111	Business Law	(3)
BA 114	Marketing	3

Curriculum and Requirements for Majors and Certificates

BA 117	Introduction to 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)
BA 153	Small Business Management	3
TOTAL CERTIFICATE REQUIREMENTS:		18

RECOMMENDED COURSES:

ACCT 100	Introduction to Accounting	3
BA 113	Legal Environment of Business	3
BA 208	Leadership for Women in Business	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
SPCH 100	Fundamentals of Oral Communication	3

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the department requirements for a Certificate of Achievement in Human Resource Management.

Plan A: To obtain an A.A. Degree, complete the department requirements, take 12 units from the Recommended Courses, and complete the requirements for Plan A (Degree and/or Career Option) in the Cerritos College Catalog.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements, and complete the requirements for Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements, and complete the requirements for Plan C (Intersegmental General Education Transfer Curriculum–IGETC–for transfer to UC and CSU) in the Cerritos College Catalog.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable. Please see a business Counselor or the respective department chairperson for additional alternatives.

BUSINESS COMMUNICATIONS OFFICE TECHNOLOGY

CAREER OPPORTUNITIES:

Business
Industry
Government
Self-Employment

GENERAL OFFICE CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOT 46	Business Communications	3
BCOT 60	Customer Service/Telephone Techniques	1
BCOT 63	Keyboarding Speed/Control Building	1
BCOT 112	Microsoft Word	3.5

BCOT 114	Introduction to Microsoft Office	3.5
BCOT 131	Beginning College Keyboarding & Document Processing	3.5
BCOT 147	Business Communications	3
BCOT 152	Job Search in the Business Field	1.5
BCOT 161	Principles of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
TOTAL CERTIFICATE REQUIREMENTS		24

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/A.A. Degree is nontransferable.

Please see Business Counselors or the respective department chairperson for additional alternatives.

LEGAL SECRETARY

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
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 112	Microsoft Word	3.5
BCOT 147	Business Communications	3
BCOT 152	Job Search in the Business Field	1.5
BCOT 162	Business Spelling and Proofreading Skills	3
LAW 101	Introduction to Law	3
TOTAL CERTIFICATE REQUIREMENTS		21.0/22.0

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

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/A.A. Degree is nontransferable. Please see a Business Counselor or the respective department chairperson for additional alternatives.

Please see a Business Counselor or the respective department chairperson for additional alternatives.

SECRETARY/ADMINISTRATIVE ASSISTANT

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOT 60	Customer Service/Telephone Techniques	1
BCOT 63	Keyboarding Speed/Control Building	1
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 117	Desktop Publishing–Microsoft Publisher	1.5
BCOT 147	Business Communications	3
BCOT 152	Job Search in the Business Field	1.5

Curriculum and Requirements for Majors and Certificates

BCOT 155	Administrative Secretarial Procedures	4
BCOT 161	Principles of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
TOTAL CERTIFICATE REQUIREMENTS		29.5

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/A.A. Degree is nontransferable.

Please see Business Counselors or the respective department chairperson for additional alternatives.

WORD PROCESSING

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOT 46	Business Communications	3
BCOT 63	Keyboarding Speed/Control Building	1
BCOT 112	Microsoft Word	3.5
BCOT 131	Beginning College Keyboarding & Document Processing	3.5
BCOT 147	Business Communications	3
BCOT 152	Job Search in the Business Field	1.5
BCOT 161	Principles of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
TOTAL CERTIFICATE REQUIREMENTS		19.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Meet the requirements for a Certificate of Achievement in Word Processing and complete General Education requirements and electives to achieve a minimum of 60 units.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable.

Please see Business Counselors or the respective department chairperson for additional alternatives.

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 Verification of Completion
- Preschool Director Verification of Completion
- Family Child Care Verification 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 A.A. 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.

- 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: Educational Paraprofessional

- D. **A.A. Degree – Child Development** – This option requires one of the Certificates of Achievement and the required General Education courses at Cerritos College. (See college catalog 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 A.A. Degree must be made through the Cerritos College Office of Admissions and Records.

DEPARTMENT SPECIALIZATIONS

A1. ASSOCIATE TEACHER SPECIALIZATION AND VERIFICATION 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

CD 110	Child Development	3
CDEC 111	Principles and Practices in Early Childhood Education	3
CDEC 112	Introduction to Curriculum	3
CDEC 113	The Child, Family, and Community	3

A2. PRESCHOOL DIRECTOR SPECIALIZATION AND VERIFICATION 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 for the Child Development Permit from the California Commission of Teacher Credentials.

CORE COURSES

CD 110	Child Development	3
CDEC 111	Principles and Practices in Early Childhood Education	3
CDEC 112	Introduction to Curriculum	3
CDEC 113	The Child, Family, and Community	3

ADDITIONAL COURSE

CDEC 66	Administration and Supervision of Early Childhood Education Programs	3

A3. FAMILY CHILD CARE SPECIALIZATION AND VERIFICATION 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

CD 110	Child Development	3
CDEC 161	Health, Safety, and Nutrition	3

*TO QUALIFY FOR CREDIT FOR VERIFICATION 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)

CD 110	Child Development	3
CDEC 111	Principles and Practices in Early Childhood Education	3
CDEC 112	Introduction to 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)

CD 110	Child Development	3
CDEC 111	Principles and Practices in Early Childhood Education	3
CDEC 112	Introduction to 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 program that also requires the Child Development permit.

COURSES

CD 110	Child Development	3
CDEC 111	Principles and Practices in Early Childhood Education	3
CDEC 112	Introduction to Curriculum	3
CDEC 113	The Child, Family, and Community	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:

COURSES

CDEC 230	Adult Supervision in Child Care Programs	3

AND

Six (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 A.A. Degree or 60 units, which must include the following courses. If the A.A. does not include the following courses then these courses must be taken in addition:

Curriculum and Requirements for Majors and Certificates

COURSES		UNITS	CDSE 50	Survey of Special Education	3
CD 110	Child Development	3	CDSE 52	Special Education Inclusion in Early Childhood Programs	3
CDEC 111	Principles and Practices in Early Childhood Education	3			—
CDEC 112	Introduction to Curriculum	3		TOTAL CERTIFICATE REQUIREMENTS	30/31
CDEC 113	The Child, Family, and Community	3			
Twelve additional Child Development units (choose from Certificate of Achievement – Early Childhood list)			* 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.		
COURSES		UNITS	C2. CHILD DEVELOPMENT/PRESCHOOL DIRECTOR		
CDEC 66	Administration and Supervision of Early Childhood Programs	3	NOTE: APPLICATION FOR CERTIFICATE OF ACHIEVEMENT MUST BE MADE AT Admissions and Records Office. Students must complete the Certificate of Achievement requirements listed in Child Development/Early Childhood and the following courses:		
CDEC 67	Advanced Administration and Supervision of Childhood Programs (offered in Spring semester only)	3	COURSES		UNITS
CDEC 230	Adult Supervision in Child Care Programs	3		Certificate of Achievement in Child Development/Early Childhood Administration and Supervision of Early Childhood Education Programs	30/31
Please note the required experience period.			CDEC 66	Advanced Administration and Supervision of Early Childhood Education Programs (offered in Spring semester only)	3
CERTIFICATES OF ACHIEVEMENT			CDEC 67	Adult Supervision in Child Care Programs	3
C1. CHILD DEVELOPMENT/EARLY CHILDHOOD			CDEC 230		—
In order to receive the Certificate of Achievement, all courses must be completed with a grade of “C” or higher.				TOTAL CERTIFICATE REQUIREMENTS	39/40
NOTE: APPLICATION FOR CERTIFICATE OF ACHIEVEMENT MUST BE MADE AT Admissions and Records Office.			COURSES		UNITS
COURSES		UNITS	C3. INFANT/TODDLER TEACHER		
CD 110	Child Development	3	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.		
CD 124	Teaching in a Diverse Society	3	COURSES		UNITS
CD 139	Observation, Assessment, and Positive Guidance of Childhood Behavior	3	CD 110	Child Development	3
CDEC 111	Principles and Practices in Early Childhood Education	3	CD 124	Teaching in a Diverse Society	3
CDEC 112	Introduction to Curriculum	3	CDEC 111	Principles and Practices in Early Childhood Education	3
CDEC 113	The Child, Family, and Community	3	CDEC 112	Introduction to Curriculum	3
CDEC 161	Health, Safety, and Nutrition	3	CDEC 113	The Child, Family, and Community	3
CDEC 164	Practicum Field Experience	3	CDEC 161	Health, Safety, and Nutrition	3
Choose two of the following for a total of 6 units:			CDIT 151	Infant and Toddler Development	3
CDEC 62	Exploring Creative Art Expression by Children	3	CDIT 152	Infant and Toddler Programs	3
CDEC 63	Early Childhood Experiences in Language Arts and Social Science	3			—
CDEC 65	Music and Movement for Children	3		TOTAL CERTIFICATE REQUIREMENTS	24
CDEC 133	Early Childhood Experiences in Math and Sciences	3	COURSES		UNITS
CDEC 173	Early Childhood Education Occupational Work Experience	3	CD 110	Child Development	3
CDEC 174	Early Childhood Education Occupational Work Experience	(4)	CD 124	Teaching in a Diverse Society	3
CDEC 230	Adult Supervision in Child Care Programs	3	CD 139	Observation, Assessment and Positive Guidance of Childhood Behavior	3
CDIT 151	Infant and Toddler Development	3	CDEC 62	Exploring Creative Art Expression by Children	3
CDIT 152	Infant and Toddler Programs	3	CDEC 133	Early Childhood Experiences in Math and Sciences	3
CDSA 152	School-Age Child Care Supervision and Administration (offered Spring Semester only)	3	CDSE 50	Survey of Special Education	3
CDSA 155	School-Age Child Care Activities (offered Fall semester only)	3			

CDSE 52	Special Education Inclusion in Early Childhood Programs	3
*CDSE 73/74	Special Education Assistant Occupational Work Experience	3-4
PSYC 101	General Introductory Psychology	3
SL 101	Beginning American Sign Language	3
TOTAL CERTIFICATE REQUIREMENTS		29/30

* 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. Plus, for an A.A. Degree a student must complete General Education requirements to achieve a minimum of 60 units.

C5. EDUCATIONAL PARAPROFESSIONAL

COURSES		UNITS
CD 110	Child Development	3
CD 124	Teaching in a Diverse Society	3
CD 139	Observation, Assessment and Positive Guidance of Childhood Behavior	3
CDEC 62	Exploring Creative Art Expression by Children	3
CDEC 113	The Child, Family, and Community	3
CDIA 90	Introduction to Elementary and Secondary Classroom Experience	3
*CDIA 99	Educational Paraprofessional Practicum	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		30

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. Plus, for an A.A. Degree a student must complete General Education requirements to achieve a minimum of 60 units.

COMPUTER AND INFORMATION SCIENCES

CAREER OPPORTUNITIES:

Compiler
Systems Operator
Web Designer

ISERIES 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	iSeries 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 Programming	(3)
CIS 240	iSeries 400 Control Language Programming	3
BCOT 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 units from the following courses:

CIS 70A	Network Fundamentals	3.5
CIS 121	Internet for Information System/Information Technology	1.5
CIS 141A	Information Operations Navigator iSeries (AS/400)	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
273/274		

TOTAL CERTIFICATE REQUIREMENTS 31.5/32

*Meets General Education requirement, may substitute MATH 60.

**Meets A.A. Degree General Education requirement, may substitute ENGL 100.

NOTE: CIS 52 or CIS 103 meet A.A. 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/A.A. Degree is nontransferable.

Please see SEM/CIS Counselors or the respective department for additional alternatives.

MICROCOMPUTER SPECIALIST**CERTIFICATE OF ACHIEVEMENT**

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
CIS 52*	Data Processing Mathematics	3
BCOT 96	Microsoft PowerPoint	1.5
BCOT 117	Desktop Publishing Microsoft Publisher	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
BCOT 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	Internet for Information System/Information Technology	1.5
CIS 180	Programming in C/C++	3
CIS 182	Java Major Programming	3.5
CIS 201	Systems Analysis and Design	3
CIS 205	Programming HTML for the World Wide Web	1.5
CIS 206	XML Web Application Development	3.5
CIS 212	Introduction to Microsoft Windows Administration	3.5
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 A.A. Degree General Education requirement, may substitute MATH 60.

**Meets A.A. Degree General Education requirement.

NOTE: CIS 52, 102, or 103 meets A.A. 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/A.A. Degree is nontransferable.

Please see counselors or the respective department for additional alternatives.

NETWORKING TECHNICIANS/OPERATORS**CERTIFICATE OF ACHIEVEMENT**

REQUIRED COURSES		UNITS
CIS 70A	Networking Fundamentals	3.5
CIS 70B	Network+ Certification	3.5
CIS 70D	Introduction to TCP/IP	1.5
CIS 70E	Router Configurations and Protocol	3.5
CIS 70F	Advanced Switching and Routing	3.5
CIS 70G	Wide Area Networks	3.5
		—
		19

Choose 10.5 units from the following courses:

CIS 58A	PC Operating System A+ Certification	3.5
CIS 75	SQL Administration and Implementation	3
CIS 141	iSeries 400 Operations	3
CIS 105	Using Microsoft Windows	1.5
CIS 201	Systems Analysis and Design	3
CIS 205	Programming HTML for the World Wide Web	1.5
CIS 212A	Microsoft Windows 2000 Professional	3.5
CIS 212B	Microsoft Windows 2000 Server	3.5
CIS 214	Unix	3

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/A.A. Degree is nontransferable.

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	iSeries 400 Operations	3
CIS 141A	Operations Navigator iSeries (AS/400)	1.5
CIS 240	iSeries 400 Control Language Major Programming	3
BCOT 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 15 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 and Implementation	3
CIS 105	Using Microsoft Windows	1.5
CIS 121	Internet for System/Information Technology	1.5
CIS 140	Query/400	1
CIS 175	RPG Programming	3
CIS 180	Programming in C/C++	3

Curriculum and Requirements for Majors and Certificates

CIS 201	Systems Analysis and Design	3
CIS 207	Database Design and SQL	3
CIS 212	Introduction to Microsoft Windows Administration	3.5
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 A.A. Degree General Education requirements.

NOTE: CIS 52, 101, 102, or 103 meet A.A. 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/A.A. Degree is nontransferable.

PROGRAMMER

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
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	(3.5)
or CIS 208B	Oracle Database Applications	(3.5)
CIS 280	Object-Oriented Programming in C++	3
or CIS 282	Advanced Java Programming	(3.5)
CIS 292	Data Structures	3.5
BCOT 147	Business Communications	3

Choose 12 units from the following courses:

CIS 126	JavaScript for Programmers	3.5
CIS 140	Query/400	1
CIS 141	iSeries 400 Operations	3
CIS 160	Web Page Development	3.5
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 HTML for the World Wide Web	1.5
CIS 207	Database Design and SQL	3.5
CIS 208A	Oracle SQL and PL/SQL	.5
CIS 208B	Oracle Database Applications	3.5
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

CIS 282	Advanced Java Programming	3.5
CIS 283A	Java Server Pages (JSP) Programming	3.5
CIS 285A	ASP.NET Programming	3.5
TOTAL CERTIFICATE REQUIREMENTS		35/36

NOTE: CIS 101, 102, and 103 meet A.A. Degree General Education "Communication and Analytic Thinking" requirement and the "A.A. 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/A.A. 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 70A	Network Fundamentals	3.5
CIS 101	Introduction to Computer Information Systems	3
or CIS 102	Introduction to Microcomputer Hardware and Application Software	(3)
CIS 103	Computer Programming Logic	3.5
CIS 151	Microsoft Excel for 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 202B	Microsoft Project	3.5
CIS 207	Database Design and SQL Programming	3
or CIS 208A	Oracle SQL and PL/SQL	(3)
BCOT 147	Business Communications	3

Choose 7 units from the following courses

CIS 58A	PC Operating System A+ Certification	3.5
CIS 58B	PC Core Hardware A+ Certification	3.5
CIS 141	AS/400 Operations	3
CIS 152	Programming in Excel VBA	3.5
CIS 155	Microsoft Access	3
CIS 160	Web Page Development	3.5
CIS 163	Dynamic and Interactive Web Page Scripting	3.5
CIS 180	Programming in C/C++	3
CIS 182	Java Programming	3.5
CIS 205	HTML for the World Wide Web	1.5
CIS 271/272/273/274	CIS Occupational Work Experience	1/2/3/4
CIS 280	Object-Oriented Programming in C++	3
CIS 282	Advanced Java Programming	3.5
TOTAL CERTIFICATE REQUIREMENTS:		40

NOTE: CIS 101, 102 OR 103 meet A.A. Degree general education communication and analytical 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/A.A. Degree is nontransferable.

Please see S.E.M. counselors or the respective department for additional alternatives..

COSMETOLOGY

CAREER OPPORTUNITIES:

Hair Dresser
 Esthetician
 Day Salon or Spa Owner
 Distributors of Specialty Skin Care
 Product Educators
 Make-up Artist on Movie Sets, Television and Theaters

CERTIFICATE OF ACHIEVEMENT – FULL TIME STUDENT

	UNITS
COS 50A	Introductory Cosmetology I
COS 50B	Introductory Cosmetology II
COS 50C	Introductory Cosmetology III
or COS 60A	Introductory Cosmetology I
and COS 60B	Introductory Cosmetology II
or COS 70A	Introductory Cosmetology
COS 51A	Intermediate Cosmetology I
COS 51B	Intermediate Cosmetology II
COS 51C	Intermediate Cosmetology III
or COS 61A	Intermediate Cosmetology I
and COS 61B	Intermediate Cosmetology II
or COS 70B	Intermediate Cosmetology
COS 52A	Advanced Cosmetology I
COS 52B	Advanced Cosmetology II
COS 52C	Advanced Cosmetology III
or COS 62A	Advanced Cosmetology I
and COS 62B	Advanced Cosmetology II
or COS 70C	Advanced Cosmetology Manipulation
MINIMUM UNITS REQUIRED	58.5
or	—
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
COS 60B	Introductory Cosmetology II
or COS 71A	Introductory Cosmetology
and/or COS 71B	Introductory Cosmetology II
COS 61A	Intermediate Cosmetology I
COS 61B	Intermediate Cosmetology II
or COS 72A	Intermediate Cosmetology I
and/or COS 72B	Intermediate Cosmetology II
COS 62A	Advanced Cosmetology I
COS 62B	Advanced Cosmetology II
or COS 73A	Advanced Cosmetology I
and/or COS 73A	Advanced Cosmetology II

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

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 Programs 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 Programs by enrolling in one of the following plans:

FULL TIME DAYS: Students enrolled in the plan attend class 8:30 to 5:00 p.m. Monday through Friday. The full-time day student may complete the 1600-hour program during 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 programs.

ESTHETICIAN

CERTIFICATE OF ACHIEVEMENT

REQUIREMENT COURSES	UNITS
COS 54	Introductory Esthetician
COS 54A	Advanced Esthetician

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 Major Requirements should contact the Cosmetology Department for information regarding the cost of the kit, uniforms, and books.

The student may complete the 600-hour Major Requirements by attending two regular semesters .

DAYS: Students enrolling in this program 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.

Curriculum and Requirements for Majors and Certificates

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 3) electives as needed.

RECOMMENDED ELECTIVES: TH123 - Stage Make-up, BA 158-Small Business Management.

See Cerritos College Graduation Requirements.

COURT REPORTING AND CAPTIONING CAREERS

CAREER OPPORTUNITIES:

Court Reporter in Superior and Municipal Courts and the deposition field.

DEPARTMENT REQUIREMENTS

	UNITS
CRCC 57B Advanced Aural Language Skills for Court Reporters	3
CRCC 113 Legal Terminology	3
CRCC 115 Medical Shorthand for Court Reporters	4
CRCC 116 Introduction to Courtroom Procedures	4
CRCC 118 Deposition Procedures, Codes & Ethics	4
CRCC 119AEF CAT Dictionary Build	2.5
CRCC 119BCD Computer Aided Transcription	2.5
CRCC 146 Computer Shorthand Speed Building (140-170 wpm)	3
	—
TOTAL REQUIREMENTS:	26

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Achieve a minimum of 140 wpm shorthand speed and 50 net wpm typing speed. Meet the requirements for a Certificate of Achievement in Court Reporting and Captioning Careers and complete the General Education requirements and electives to achieve a minimum of 60 degree applicable units.

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 95533
(916) 263-3660

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	240
Medical	120
Legal	150
Transcript Procedures	25

Apprenticeship Training	60
Technology	60
Resource Materials	5

TOTAL MINIMUM PRESCRIBED ACADEMIC HOURS	660
TOTAL MACHINE SHORTHAND AND TRANSCRIPTION	2300

Choose from the following courses to meet the Court Reporters Board minimum required hours:

	UNITS	MayBe Taken	Hours
CRCC 57A Beginning Aural Language Skills for Court Reporters	3		54
CRCC 57B Advanced Aural Language Skills for Court Reports	3		54
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 119AEF CAT Dictionary Build	2.5	3 times	72
CRCC 119BCD Computer Aided Transcription	2.5	3 times	72
CRCC 173/174 Court Reporting and Captioning Careers 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

Machine Courses: All machine courses will count toward the 2300 minimum hours required by the Court Reporters Board

CRCC 140 Computerized Shorthand Theory	3		108
CRCC 140A/B Computerized Shorthand Theory A/B	2.5		72
CRCC 141 Computerized Shorthand Theory Review/Skill Development	3	2 times	108
CRCC 141A/B Computerized Shorthand Theory Review/Skill Development A/B	2.5	2 times	72
Machine Courses CRCC 142-144; 152-154;	3	2 times	108
CRCC 145-146; 155-156;	3	3 times	108
CRCC 147-149	3	4 times	108
CRCC 162ABCD-169ABCD	3	4 times	108

Choose from the following courses for a minimum of 132 hours:

BCOT 46 Business Communications	3		54
BCOT 162 Business Spelling and Proofreading Skills	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 78 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.

COURT REPORTING AND CAPTIONING CAREERS CERTIFICATE OF ACHIEVEMENT

DEPARTMENT REQUIREMENTS	UNITS
CRCC 57B Advanced Aural Language Skills for Court Reporters	3
CRCC 113 Legal Terminology	3
CRCC 115 Medical Shorthand for Court Reporters	4
CRCC 116 Introduction to Courtroom Procedures	4
CRCC 118 Deposition Procedures, Codes, and Ethics	4
CRCC 119AEF CAT Dictionary Building	2.5
CRCC 119BCD Computer-Aided Transcription	2.5
CRCC 146 Computerized Shorthand Speed Building (140-170 wpm)	3
TOTAL CERTIFICATE REQUIREMENTS	26

HEARING REPORTER CERTIFICATE OF ACHIEVEMENT

DEPARTMENT REQUIREMENTS	UNITS
CRCC 57B Advanced Aural Language Skill for Court Reporters	3
CRCC 113 Legal Terminology	3
CRCC 115 Medical Shorthand for Court Reporters	4
CRCC 119AEF CAT Dictionary Build	2.5
CRCC 149 Computerized Shorthand Speed Building (190-225 wpm)	3
CRCC 173 Court Reporting and Captioning Careers Occupational Work Experience	3
CRCC 185 CSR/RPR Examination Preparation	1.5
CRCC 192 Transcription Procedures	2

Choose from the following courses for a minimum of 3 units:

	UNITS
BCOT 46 Business Communications	3
BCOT 162 Business Spelling and Proofreading Skills	3
ENGL53 Punctuation, Capitalization, and Spelling	3
ENGL100 Freshman Composition	4
ENGL107 Vocabulary Building	3
ENGL108 Vocabulary Building for Professionals	2

Choose from the following courses for a minimum of 4 units:

	UNITS
CRCC 116 Introduction to Courtroom Procedures	4
CRCC 118 Deposition Procedures, Codes and Ethics	4
TOTAL CERTIFICATE REQUIREMENTS	29.0/30.0

TO OBTAIN AN AA DEGREE:

Meet the requirements for a Certificate of Achievement in Hearing Reporter and complete the General Education requirements and electives to achieve a minimum of 60 degree applicable units.

PROOFREADER – COURT REPORTING METHODS CERTIFICATE OF ACHIEVEMENT

DEPARTMENT REQUIREMENTS	UNITS
CRCC 57A Beginning Aural Language Skills for Court Reporters	3
CRCC 57B Advanced Aural Language Skills for Court Reporters	3
CRCC 113 Legal Terminology	3
CRCC 139 Exploring Career Opportunities in Court Reporting	1
CRCC 192 Transcription Procedures	2
TOTAL CERTIFICATE REQUIREMENTS	12

REALTIME RAPID TEXT ENTRY CERTIFICATE OF ACHIEVEMENT

DEPARTMENT REQUIREMENTS	UNITS
CRCC 57B Advanced Aural Language Skill for Court Reporters	3
CRCC 119BCD Computer-Aided Transcription	2.5
CRCC 125 Computer Shorthand Realtime Practicum I	3
CRCC 139 Exploring Career Opportunities in Court Reporting	1
CRCC 146 Computerized Shorthand Speed Building (140-170 wpm)	3
TOTAL CERTIFICATE REQUIREMENTS	12.5

SCOPIST FOR COURT REPORTERS CERTIFICATE OF ACHIEVEMENT

DEPARTMENT REQUIREMENTS	UNITS
CRCC 57B Advanced Aural Language Skills for Court Reporters	3
CRCC 113 Legal Terminology	3
CRCC 119BCD Computer-Aided Transcription	2.5
CRCC 137B Intermediate CAT Software	1
CRCC 139 Exploring Career Opportunities in Court Reporting	1
CRCC 192 Transcription Procedures	2

Choose 3 units from the following:

	UNITS
CRCC 114 Medical Terminology for Machine Shorthand or MA 161 Medical Terminology	3 (3)
TOTAL CERTIFICATE REQUIREMENTS:	15.5

CULINARY ARTS

CHEF'S TRAINING CERTIFICATE OF ACHIEVEMENT

	UNITS
CA 65 Food Costing	2
CA 101 Introduction to Food Service Safety & Sanitation	1
CA 152 Introduction to Commercial Food Production	6
CA 153 Commercial Food Production: Pantry Items	9.5

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CA 154	Commercial Food Production: Meats & Poultry	9.5
CA 160	Foods Purchase and Control	3
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 or chef steward. Also, short order cook pantry person, garde helper, or roast cook.

PROFESSIONAL BAKING AND PASTRY CERTIFICATE OF ACHIEVEMENT

		UNITS
CA 80	Introduction to Baking Skills	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
CA 160	Food Purchase and Control	3
TOTAL CERTIFICATE UNITS		18

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Meet the above requirements for Certificate of Achievement. Plus for an A.A. Degree the student must complete the A.A. Degree General Education requirements and electives to achieve a minimum of 60 units.

CAREER OPPORTUNITIES: Employment as a professional baker, pastry chef, pastry cook, or speciality baker.

DANCE

CAREER OPPORTUNITIES:

Teacher
Performer in Dance Companies
Performer on Television and Films
Choreographer

MAJOR REQUIRMENTS

		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 109	Introduction to Dance Cultures of the World	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 Dance	2
DANC 132	Dance of 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 A.A. Degree education requirements for a total of least 60 units.

DENTAL ASSISTING

Curriculum leads to a 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.

PROGRAM MISSION

In addition to the philosophy of the College, the mission of the Dental Assisting Department is to provide the community with Registered Dental Assistants who are capable of working with the dental team to attain the shared goal of providing the best possible care for their patients.

PROGRAM GOALS

1. To prepare the dental assisting student for employment as a dental health care professional.
2. To prepare the dental assisting student to be a safe and competent dental health care professional by being in compliance with both Federal and California State standards and regulations.
3. To provide the dental assisting student with academic knowledge and skill competence to qualify for both California and National Certification examinations.
4. To provide curriculum that will offer opportunities for the student to develop competency in basic business office procedures.

5. To provide the student with opportunities to develop competency in the use of safety techniques, exposing, developing and mounting of radio graphs.
6. Upon satisfactory completion of the radiation course, provide the student with California State radiation certification.
7. To provide the student with opportunities to qualify for coronal polishing certification.
8. To provide the student with opportunities to qualify for Pit and Fissure Sealant certification.
9. To encourage the dental assisting student to develop a sense of responsibility and accountability in his/her professional role as a dental assistant.
10. To encourage the commitment by the dental assisting student to continue his/her education which assures professional and personal development throughout his/her career in the profession of dental assisting.

LENGTH AND KIND OF PROGRAM

The program is three terms in length (Fall, Spring, and six-week Summer Session). General Education and Dental Assisting classes are scheduled on the college campus and clinical experiences in patient care are scheduled at selected dental schools and private dental offices.

ADMISSION REQUIREMENTS

1. Academic requirements
 - a. High school graduation or satisfactory scores on the General Education Development (GED) examination (given at most adult education centers).
 - b. A 2.0 grade point average in all high school and college courses. If high school GPA is less than 2.0, at least 12 units of college course work with a GPA of 2.0 or higher is required.
 - c. Completion of ENGL 20 or equivalent with a grade of "C" or higher, or a score on the English Assessment/Placement test sufficient for placement in ENGL 52 or higher.

APPLICATION & ADMISSION PROCEDURES

1. Applicants must submit to the Health Occupations Division the following items no later than May 15, unless noted otherwise:
 - a. Completed application signed by the applicant and returned by May 15.
 - b. High school (or equivalent) and college transcripts of all work completed. Unofficial transcripts can be submitted with application. Official transcripts must be submitted prior to the completion of the first semester of the program.
 - c. Cerritos College English Placement/Assessment test scores or indication by a counselor that English clearance has been met through equivalent courses or activities.
 - d. Applicants completing admission requirements during the spring session must submit a final grade to the Health Occupations Division before May 30.
 - e. Verification of typing/keyboarding (computer) high school course with a "B" or higher or college course with a "C" or higher. Alternative: applicants may demonstrate competence through testing proficiencies verifying typing skills at a speed of 45 wpm. This may be achieved concurrent with the program.
 - f. Verification of dental employment work experience (if applicable).

2. Applicants who meet the minimum admission requirements are assigned a number for admission by a randomized computer selection process.
3. Notification of admission to the program will be done by mail after May 30.
4. Admitted students and alternates will be required to attend a mandatory orientation meeting in July. During the orientation, information will be given regarding textbooks, uniforms, registration procedures, and other relevant matters.

HEALTH

1. Physical exam and immunizations records must be completed during the first semester of the program. All costs are the responsibility of the student.
2. A valid Healthcare Provider Cardiopulmonary Resuscitation (CPR) certification must be obtained after acceptance into the program and before the second week of the fall semester. It must be obtained through an American Heart Association Provider. The CPR card must be valid throughout the program.
3. Applicants must present evidence of physical fitness and ability to perform tasks required of a dental assistant. Employment in this field requires good vision, hearing, and the ability to communicate verbally, nonverbally, and through written word. 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 manual dexterity to use small instruments to provide patient care.
4. The essential requirements of a dental assistant are used in consideration of admission, retention and graduation from the Cerritos College program. Graduates are expected to be fully qualified to enter the profession as an Assistant. It is the responsibility of the student with disabilities to contact the Disabled Student Programs and Services Office and provide verification of the disability and resulting limitations. Students are responsible to make advance request for those accommodations that he or she feel are reasonable and needed to execute the essential requirements described above.

EXPENSES

1. See Cerritos College Catalog for complete list of Cerritos College enrollment fees and out-of-state resident fees.
2. Students may expect to pay approximately \$1,500 for dental assisting project fees, uniforms, and books.
3. Students are responsible for their own living accommodations, including uniform laundry and transportation to extended campuses.
4. Physical exam and immunization expenses are the student's responsibility.
5. Upon successful completion of program requirements, the student is eligible to take the State Board Registered Dental Assisting exam and the National Certified Dental Assisting exam (approximately \$725 - costs incurred by student).
6. Upon successful completion of all program requirements, the student will be eligible to receive and wear the Dental Assisting pin which is given at a graduation ceremony. The cost of the pin is incurred by the student.

ATTENDANCE, SCHOLARSHIP, PROMOTION

1. Attendance: Due to the nature of the Dental Assisting program all students are expected to observe the attendance requirements set by the Dental Assisting department at Cerritos College (see student handbook).
2. Scholarship and Promotion: Students are required to maintain a "C" or higher in each course in order to progress in the program.

GUIDELINES FOR WITHDRAWAL, DISMISSAL, AND REINSTATEMENT

1. Withdrawal
 - a. Withdrawal ("W") may be initiated by either the student or the instructor. Dates for withdrawal without a grade are indicated in the Cerritos College Schedule of Classes.
 - b. When a student is failing clinically, he/she will be encouraged to withdraw from the course. If the clinical failure is related to unsafe clinical practice, and the student does not withdraw when advised to do so, the instructor shall drop the student from the course. A student who has withdrawn or been dropped from a course may not attend after the withdrawal date.
2. Dismissal (Failure) - Criteria for dismissal from course or program may include:
 - a. Final grade below "C" in required dental assisting course.
 - b. Failure to meet attendance requirements.
 - c. Behavior not consistent with Dental Assisting Code of Ethics and the department's "Code of Ethics and Responsibilities".
 - d. Failure to comply with established Cerritos College or Dental Assisting department regulations and policies.
 - e. Failure to meet stated objectives in the coursework.
 - f. Placing self or others in physical and/or emotional jeopardy.
 - g. In critical cases, such as unsafe clinical performance, dismissal may occur without prior warning or probation. This action requires the concurrence of the Dental Assisting Program Director, Instructional Dean of Health Occupations and/or Vice President of Academic Affairs.
3. Reinstatement
 - a. Students applying for readmission to the Dental Assisting Program after withdrawal or dismissal must write a letter requesting readmission, addressed to the Director of the Dental Assisting Program.
 - b. Following information must be included in the letter:
 - 1) Circumstances surrounding the withdrawal or dismissal
 - 2) Activities pursued in the interim that demonstrate improvement in the problem areas
 - 3) Reason for requesting readmission
 - 4) School term for which readmission is requested
 - c. Students seeking readmission after one withdrawal/dismissal from the Cerritos College Dental Assisting Program/course will be reinstated contingent upon lab space availability in the priority order of date and time the readmission request is received in the Dental Assisting Department.
 - d. Readmission request letters will be accepted only after letters from the program director have been mailed acknowledging student withdrawal or dismissal. These letters are mailed after the end of the school term in which the withdrawal occurred and are mailed at the same time

to all students who did not successfully complete the term. All students requesting readmission will have equal opportunity to apply for space available.

- e. No student shall be reinstated after two withdrawals/dismissals from the Cerritos College Dental Assisting Program/course. A student who has acquired two withdrawals/dismissals shall have exceeded the repeat policy of the program and shall have no further chance of reentry.
- f. A student who withdraws from the program for personal reasons (e.g. pregnancy, illness, family crisis, financial difficulties, etc.) will be given additional consideration through faculty review, upon the student's request describing such reasons.

GRADUATION

1. Graduation Requirements:
 - a. Completion of all Dental Assisting course work with a grade of "C" or higher.
 - b. Verification of typing/computer proficiency.
 - c. Completion of ENGL 52, or equivalent, with a grade of a "C" or higher or satisfactory completion of the English Placement Process with eligibility for ENGL 100.

LICENSURE

The State of California Board of Dental Auxiliaries requires all applicants for the RDA Exam to:

1. Supply their U.S. Social Security Number
2. Complete a Non-Live Scan Fingerprint record
 - a. If the applicant has been convicted or plead guilty to any crime in the USA, its territories, military court or foreign country which includes a plea of no contest or any conviction that has been set aside or deferred pursuant to sections 1000 or 1203.4 of the Penal Code, including infractions, misdemeanors, and felonies must provide detail information regarding the conviction to complete the processing of the application and the State will determine if the individual does qualify to take the RDA exam.

DISCLAIMER

The program has made every reasonable effort to determine that everything stated in the catalog 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 law.

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

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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

CERTIFICATE OF ACHIEVEMENT

To qualify for the Certificate of Achievement students must:

1. Complete all Dental Assisting course work with a grade of “C” or higher.
2. Provide verification of typing/computer proficiency.
3. Complete ENGL 52, or equivalent, with a grade of a “C” or higher or attain a satisfactory score on the English assessment test.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

(May be taken prior to or following Certificate of Achievement)

Meet all the requirements as listed for the Certificate of Achievement in Dental Assisting. For an A.A. Degree, a student must also take electives and General Education to achieve a minimum of 60 units. Students interested in the Dental Hygiene program should consider enrolling in: A&P 200 and A&P 201 (or A&P 150 and A&P 151). CHEM 100, HO 152, and MICR 200.

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 hygiene 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.

GOALS AND PROGRAM COMPETENCIES

The philosophy of the Associate Degree Dental Hygiene Program was developed to reflect the philosophy of Cerritos College.

The Dental Hygiene Department believes the program should provide opportunities for the student to reach her/his greatest potential in the profession of dental hygiene so she/he may achieve a sense of dignity, value, and personal worth in the community and in the world of work regardless of age, gender, or ethnicity.

The goals of the dental hygiene program are as follows:

- I. To graduate an individual who is competent in providing preventive, educational, and therapeutic dental health services.
 - A. Graduates must be competent in providing dental hygiene care for the child, adolescent, adult, geriatric, and medically compromised patient.
 - B. Graduates must be competent in providing the dental hygiene process of care which includes assessment, planning, implementation, and evaluation.
 - C. Graduates must be competent in providing dental hygiene care for all types of periodontal disease including patients who exhibit moderate to severe periodontal disease.
 - D. Graduates must be competent in providing appropriate life support measure for medical emergencies that may be encountered in dental hygiene practice.
- II. To instill within the student a philosophical appreciation of ethical and moral values suited to the laws of the community as outlined by the American Dental Hygienist's Association and the American Dental Association.
 - A. Graduates must be competent in applying ethical, legal, and regulatory concepts to the provision and/or support of oral health care services.
- III. To encourage the student to develop professional behavior that is founded in evidence-based decision making, self-directed learning, and self-assessment to enhance professional competence.
 - A. Graduates must be competent in the application of self-assessment skills to prepare them for life-long learning.
 - B. Graduates must be competent in the evaluation of current scientific literature.
 - C. Graduates must be competent in problem solving strategies related to comprehensive patient care and management of patients.
- IV. To graduate an individual who is competent in providing health education programs to the community supporting total health through the promotion of optimal oral health.
 - A. Graduates must be competent in interpersonal and communication skills to effectively interact with diverse population groups.
 - B. Graduates must be competent in assessing, planning, implementing, and evaluating community-based oral health programs including health promotion and disease prevention activities.
- V. To promote patient satisfaction of the dental hygiene care provided by the student clinician.

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 grades of Pass or “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. Graduates of foreign dental and dental hygiene programs will not be given priority. Recency of course work still applies.
- D. 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.
- E. A valid CPR certification including health care provider cardiopulmonary resuscitation with an Automated External Defibrillator (AED) is required prior to enrolling in Dental Hygiene program courses 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. Students must have clearance for ENGL 100, MATH 80, and READ 54 or equivalent.
- 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 official copies 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). It is the applicants responsibility to verify all information has been received by the deadline.
 - 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 bloodborne and infectious diseases are available upon request from the Dental Hygiene Department or can be found 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 \$12,000 for books and instruments, equipment, uniforms, immunizations, and miscellaneous fees. Students are strongly encouraged to join the Student American Dental Hygienists' Association (SADHA) (\$65.00 annually). Fees are subject to change.
- C. Students are responsible for their own living arrangements, uniform, laundry, and transportation to clinical agencies.

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 no contender even if charges

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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.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

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

FIRST YEAR

First Semester

		UNITS
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 II	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 238	Community Outreach I	1
DH 239	Introduction to Dental Biostatistics and Research	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 248	Community Outreach II	1
DH 249	Principles of Community Oral Health	2
TOTAL UNITS		11

TOTAL CERTIFICATE REQUIREMENTS		53

The following requirements also must be completed to qualify for the A.A. 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, 202, 220, and 221)
 Introductory Sociology Principles (SOC 101, 201, 210, 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.

EDUCATIONAL TECHNOLOGY

CAREER OPPORTUNITIES:

Electronic Technician
 Teacher
 Educational Technology Trainer

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 for Educators	1
EDT 125	Fundamentals of Teaching Online	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	Using Audio 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	Web Design with Flash and Dreamweaver	3
CIS 50	Basic Computer Literacy	.5
CIS 121	Internet for Information	
	Systems/Information Technology	1.5
PHOT 112	Intermediate Digital Photography	3
TOTAL CERTIFICATE REQUIREMENTS		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.

INSTRUCTIONAL MULTI-MEDIA

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

You must complete 11 units in the following area

EDT 19	Fundamentals of Teleconferencing	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 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	Web Design with Flash and Dreamweaver	3
CIS 50	Basic Computer Literacy	.5
CIS 121	Internet for Information	
	Systems/Information Technology	1.5
PHOT 112	Intermediate Digital Photography	3
TOTAL CERTIFICATE REQUIREMENTS		18

ENGINEERING DESIGN TECHNOLOGY

CAREER OPPORTUNITIES:

Designer
Master Layout Person
Systems Designers
Tool Designer
CAD/CAM Designers

ENGINEERING DESIGN TECHNOLOGY

CERTIFICATE OF ACHIEVEMENT

Recommended High School Preparation:

One year Algebra, one year of Mechanical Drafting

REQUIRED COURSES

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 REQUIREMENTS		38

ENGINEERING DESIGN AND PRODUCTION

TECHNOLOGY OPTION

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 REQUIREMENTS		55

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 A.A. Degree General Education requirements to achieve a minimum of 60 units.

RECOMMENDED ELECTIVES: MFGT 51, MFGT 100, MTT 100, BA 117, MATH 60.

RELATED TRANSFER PROGRAMS: Industrial(Engineering) Technology—Manufacturing Option.

See Cerritos College Graduation Requirements.

ENGLISH

CAREER OPPORTUNITIES:

Publications
Communications
Media, Entertainment
Creative Writing
Government
Business Management
Law
Theology
Psychology
Business Administration

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.

ASSOCIATE IN ARTS DEGREE FOR TRANSFER (AA-T)

REQUIRED CORE (6 units—two courses)

ENGL 102	Freshman Composition and Literature	3
ENGL 103	Critical and Argumentative Writing	3

LIST A (6 units—choose any two courses)

ENGL 230A	Introduction to American Literature	3
ENGL 230B	Introduction to American Literature	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
ENGL 232	Readings in Poetry	3
ENGL 234	Readings in Short Fiction	3
ENGL 235	Readings in the Drama	3

LIST B (3 Units-1 course)

Any course from List A not already used, or any of the following:

ENGL 225	Mexican American Literature in Translation	3
ENGL 228	Shakespeare's Plays	3
ENGL 237	Asian American Literature	3
ENGL 240	Creative Writing	3
ENGL 245	World Mythology in Literature	3

LIST C (3 Units-1 course)

Any course from List A and B not already used, OR any language course other than English which is articulated to fulfill CSU GE Area C, OR any CSU transferable English course:

ENGL 106	Introduction to Linguistics	3
ENGL 221A	Literature in the Bible: Hebrew Scriptures	3
ENGL 221B	Literature in the Bible: Christian Scriptures	3
ENGL 222	Children's Literature	3
ENGL 223	Chicana/o Literature	3
ENGL 224	Native American Literature	3
ENGL 226	African American Literature	3
ENGL 227	Current Literature	3
ENGL 236	Studies in Women's Literature	3
ENGL 238	Classical Islamic Literature	3
ENGL 241	Screenwriting	3

CHIN 101	Elementary Chinese	5
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 1	4
FREN 285	Romance Linguistics	3
GERM 101	Elementary German	5
GERM 102	Elementary German	5
GERM 201	Intermediate German	4
GERM 202	Intermediate German	4
JAPN 101	Elementary Japanese	5
JAPN 102	Elementary Japanese	5
JAPN 201	Intermediate Japanese	5
JAPN 202	Intermediate Japanese	4
SPAN 101	Elementary Spanish	5
SPAN 102	Elementary Spanish	5
SPAN 111	Elementary Spanish for Speakers of Spanish	5
SPAN 112	Elementary Spanish for Speakers of Spanish	5
SPAN 201	Intermediate Spanish	5
SPAN 202	Intermediate Spanish	4
SPAN 205	Advanced Spanish Composition	3
SPAN 206	Hispanic Literature in the Media	3
SPAN 210	Highlights of Hispanic Culture	3
SPAN 245	Introduction to Chicano/ Mexican American Culture	3
SPAN 285	Romance Linguistics	3

or any of the following:

JOUR 100	Mass Communications	3
or JOUR 101	Beginning Newswriting and Reporting	(3)
SPCH 140	Oral Interpretation of Literature	3
HUM 100	The Art of Being Human	3
TH 101	Introduction to the Theatre	3

ASSOCIATE IN ART IN ENGLISH FOR TRANSFER REQUIREMENTS:

Students must complete a minimum of 18 units from the courses listed in the English Transfer Model Curriculum, all general education requirements for PLAN B or PLAN C, and any additional units for a total of 60 units transferable to the CSU. Double counting courses in GE and the major is permissible.

Students completing this degree will not be held to any additional local graduation 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.

GENERAL EDUCATION

CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION-BREADTH (CSUGE-BREADTH) CERTIFICATE OF ACHIEVEMENT

Students may earn a certificate of achievement in General Education after completing the following transfer General Education requirements below.

California State University General Education-Breadth (CSUGE-B)

Students must complete a minimum of 39 units used to satisfy the California State University General Education Breadth (CSUGE-B) requirements (Plan B). Students must complete all the requirements for full certification of the breadth requirements, which includes a grade of "C" or better in Oral Communications, Written Communications, Critical Thinking, and Mathematical Concepts. Consult with a Cerritos College counselor or see the appropriate requirements in the Associate in Arts General Education section of the catalog.

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) CERTIFICATE OF ACHIEVEMENT

Students may earn a certificate of achievement in General Education after completing the following transfer General Education requirements below.

Intersegmental General Education Transfer Curriculum (IGETC)
Certificate of Achievement

Students must complete a minimum of 34 units used to satisfy the Intersegmental General Education Transfer Curriculum (IGETC) requirements (Plan C). Students must receive full certification of the IGETC pattern which requires a minimum grade of "C" or better in each IGETC course. Consult with a Cerritos College counselor or see the appropriate requirements in the Associate in Arts General Education section of the catalog.

INTERNATIONAL STUDIES GLOBAL POLITICS/DIPLOMACY

CAREER OPPORTUNITIES:

Foreign and Government Service
Tourism
Public Relations
Business
Law

CERTIFICATE OF ACHIEVEMENT

CORE REQUIREMENTS

DIVISION OPTION REQUIREMENTS (SELECT 1)

TOTAL CERTIFICATE UNITS

(15 UNITS)

9 UNITS

24 UNITS

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

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 from 1500 to Present	3
POL 220	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: Challenge and Change	3
SPCH 110	Intercultural Communication	3

NOTE: One year of Foreign Language study is recommended.

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 Linguistics	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
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.

WORLD CULTURES

CERTIFICATE OF ACHIEVEMENT

CORE REQUIREMENTS

		UNITS
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.

INSURANCE – PROPERTY AND CASUALTY

CAREER OPPORTUNITIES:

Auto Insurance Agent
Business Insurance Agent
Health Insurance Agent
Life Insurance Agent
Real Estate Insurance Agent

CERTIFICATE OF ACHIEVEMENT

		UNITS
INSR 101	Introduction to Insurance	1
INSR 102	Insurance Code and Ethics	1
INSR 121	Insurance Principles: Property and Liability	3
INSR 122	Personal Insurance	3
INSR 123	Commercial Insurance	3
INSR 171	Insurance Occupational Work Experience	1
BA 100	Fundamentals of Business	3
BA 113	Legal Environment of Business	3
or LAW 111	Business Law	(3)
BA 156	Motivational Presentation Skills for Managers	3
or BCOT 147	Business Communications	(3)
ACCT 100	Introduction to Accounting	3
ACCT 133	Spreadsheet Accounting I	3.5
CIS 101	Introduction to Computer Information Systems	3

TOTAL UNITS		30

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Meet the requirements for a Certificate of Achievement in Insurance -Property and Casualty and complete General Education requirements to achieve a minimum of 60 units.

INTERPRETING/TRANSLATING

CAREER OPPORTUNITIES:

Interpreter
Translator
Teacher
Legal Assistant

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 Linguistics	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.

LAW (PARALEGAL)

CAREER OPPORTUNITIES:

Escrow Secretary
File Clerk
Insurance Clerk
Legal Assistant
Paralegal
Legal Secretary

ASSOCIATE IN ARTS DEGREE

SECTION A - LEGAL PARALEGAL PROGRAM CORE REQUIREMENTS FOR BOTH A.A. AND CERTIFICATE CANDIDATES:

		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
LAW 290*	Capstone Course-Paralegal Program	1
TOTAL REQUIREMENTS FOR SECTION A		22

NOTE: Plus 6 units selected from the courses listed below in section "B" with an asterisk (*) for both A.A. and Certificate candidates.

SECTION B

A.A. Degree Candidates must complete 28 units and an additional 5.0 units from from these courses below for a total of 33.0 units.

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	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 119	Legal Aspects of Mass Communications	1
LAW 171-172, 173, 174*	Legal Occupational Work Experience	(1-4)
LAW 220*	Landlord and Tenant Law	3
LAW 230*	Corporate Law	3
LAW 260*	Immigration Law	3
TOTAL REQUIREMENTS		33

NOTE: * Legal Specialty courses. The ABA requires a minimum of 18 units of legal specialty courses for both the A.A. Degree and Certificate Candidates.

Certificate Candidates: Must complete a total of 22.0 units of Core Requirements and 6.0 units of Legal Specialty courses designated by an (*) in Section "B". A student may earn a Paralegal Certificate if the student has already completed an A.A. Degree or B.A. Degree prior to taking any courses applied to the Paralegal Certificate. Students must complete a total of 28.0 units.. All 28.0 units must be taken at Cerritos College. Students must consult with the LAW or Counseling Department prior to entering the Certificate Program to verify eligibility. Any Law courses which were taken prior to the completion of the student's requisite A.A. Degree will not be counted as part of the certificate units.

A.A. Degree Candidates: Must complete a total of 22.0 units of Core Requirements, 6.0 units of Legal Specialty courses designated by an (*) in Section "B", and 5.0 units of any other courses from Section "B". General Education requirements must also be completed to achieve a minimum of 60.0 degree applicable units for an A.A. Degree in Paralegal. No course may be taken as "Credit by Exam."

THIS PROGRAM IS APPROVED BY THE AMERICAN BAR ASSOCIATION (ABA).

PARALEGAL SPECIALTY REQUIREMENTS

In order to obtain a paralegal specialty, the student must complete the Paralegal A.A. Degree or Certificate. Units for the specialty may come from the Paralegal A.A. Degree or Certificate requirements from additional courses as outlined below:

OPTIONAL SPECIALTIES

BUSINESS LAW

LAW 110	Business Law	3
LAW 111	Business Law	3
LAW 113*	Fundamentals of Alternate dispute Resolutions	3

COMMERCIAL (LAW)

LAW 106*	Bankruptcy Law	3
LAW 220*	Landlord and Tenant Law	3
LAW 230*	Corporate Law	3
or LAW 110	Business Law	(3)

CRIMINAL LAW

LAW 104*	Advanced Legal Research	3
LAW 102*	Advanced California Civil Procedures	3
or LAW 113*	Fundamentals of Alternate Dispute Resolutions	(3)
LAW 116*	Criminal Law	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

LITIGATION

LAW 102*	Advanced California Civil Procedures	3
LAW 104*	Advanced Legal Research	3
LAW 109*	Torts and Personal Injury	3

PROBATE & ESTATE PLANNING

LAW 107*	Probate Procedures	3
LAW 112*	Estate Planning for the Paralegal	3
LAW 115*	Elder Law	3

Department Recommendation: It is strongly recommended that all graduates who wish to be assisted with job placement through the Law department complete LAW 171-174 Legal Occupational Work Experience with a letter of recommendation from their employer.

“Paralegal” means a person who holds himself or herself out to be a paralegal, who is qualified by education, training, or work experience, who either contracts with or is employed by an attorney, law firm, corporation, government agency, or other entity, and who performs substantial legal work under the direction and supervision of an active member of the State Board of California. A paralegal **shall not** provide legal advice or engage in conduct that constitutes the unauthorized practice of law. (Business & Professions Code Section 6450)

The Legal Minor does not prepare students for a career as a Paralegal and is not approved by the American Bar Association.

LIBERAL ARTS AND SCIENCES

The Liberal Arts and Sciences Degree is designed to give students a foundational degree that may either be used as a basis for transfer to a four-year college or university, or to serve those students who wish to enter the workforce prepared with an associate degree. Students wishing to transfer must select General Education Plan B for transfer to a California State University or Plan C for transfer to either a California State University or a University of California. Students planning this degree as preparation for the work force may select Plan A. See the General Education section of this catalog for details. Meeting with a college counselor is highly recommended to prepare for completion of the degree.

In order to qualify for an A.A. Degree in Liberal Arts and Sciences, the following requirements must be met:

1. Completion of Plan A, B, or C of the General Education requirements and meet required proficiencies. These requirements and proficiencies are specified in the Associate in Arts Degree General Education requirements of the catalog.
2. Completion of a minimum of 60 degree-applicable units.
3. Completion of at least one area of emphasis among the following with a grade of Pass or “C” or higher in each course:
 - Art and Culture (21 units)
 - Communication (18 units)
 - Culture and Society (18 units)
 - Earth and Space Sciences (18 units)
 - Historical Perspectives (18 units)
 - Literature and Language (18 Units)
 - Media Studies (18 units)
 - Self-Development and Social Behavior (18 units)
 - Social and Behavioral Sciences (18 units)
 - Visual Communication (18 units)
4. Courses may be used to satisfy both a General Education requirement and a major or area of emphasis requirement. Whether it may be counted again for a different degree requirement is up to each transfer institution.
5. Repeatable courses may be counted toward an area of emphasis only once.
6. Courses that appear in more than one section of an area of emphasis may be applied only once in meeting the requirements for that area of emphasis.

ART AND CULTURE

Students will begin with an overview of world art history, focusing on patterns within patterns within development of human cultural production. They will take a series of courses designed to introduce them to both Western and Non-Western artistic traditions in the visual, literary, and performing arts. They will complete their studies with advanced courses aimed at developing critical analytical skills as they relate to issues of identity and politics within the arts. Finally, they will choose from electives to broaden their understanding to art and culture today.

This area of emphasis will prepare students for possible baccalaureate degree majors within the fields of art history, arts and humanities, art criticism, theatre, and dance.

Students pursuing these studies may seek careers in museum work, allied arts, art foundations, art criticism, theatre and the entertainment industry.

Section One — Required courses

ART 100	Introduction to World Art	3
HUM 100	The Art of Being Human	3
ART 108	Black Images in Popular Culture	3
or HUM 108	Black Images in Pop Culture	(3)
or ART 109	Gender and Sexuality in Art	(3)
or HUM 109	Gender and Sexuality in Art	(3)

Section Two — Western Art History

Choose 3 units from the following courses:

ART 101	Art History 1: Prehistory to Gothic	3
ART 102	Art History 2: Renaissance to Rococo	3
ART 103	Art History 3: Neoclassical to Present	3

Section Three — Non-Western Art History

Select 3 units from the following courses:

ART 104	African Art History	3
ART 105A	The Arts of Latin America and the Caribbean: Pre-Columbian	3
ART 105B	The Arts of Latin America and the Caribbean: Colonial to Present	3
ART 107	Asian Art History	3

Section Four — Literary and Performing Arts

Select 3 units from the following courses:

ENGL 232	Readings in Poetry	3
ENGL 235	Readings in the Drama	3
MUS 100	Music Appreciation	3
MUS 101	Introduction to World Music	3
TH 159	World Film	3

Section Five — Art and Culture Electives

Select 3 units from the following courses:

ARCH 112	History of Architecture	3†
DANC 100	Dance Appreciation	3
DANC 101	History of Dance	3
SPCH 140	Oral Interpretation of Literature	3
SPCH 145	Storytelling	3
SPCH 240	Oral Interpretation: Reader's Theatre	3

Curriculum and Requirements for Majors and Certificates

TH 101	Introduction to Theatre	3
TH 104	History and Appreciation of Musical Theatre	3
TH 110	Fundamentals of Acting	3
Total Units Arts and Culture Area of Emphasis		21

† UC credit limits may apply. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

COMMUNICATION

The Communication Area of Emphasis is designed to give the student both foundational and proficient knowledge and skill to communicate effectively in today's world. Students will apply principles of language for clear, concise expression and logical thought. The emphasis begins with courses in oral communication, reading, and written communication. The next level of courses uses these communication methods to express complex concepts and critical opinions in the education as well as the vocational setting.

This area of emphasis will prepare students for possible baccalaureate degree majors in communication, communication studies, public speaking, philosophy, and education.

Students pursuing these studies may seek careers in politics, public policy, education, law, and business.

Courses that appear in more than one section of an area of emphasis may be applied only once in meeting the requirements for that area of emphasis.

Section 1 — Communication Courses

Select 6 units from the following courses:

SPCH 100	Fundamentals of Oral Communication	3†
or SPCH 130	Fundamentals of Speaking	(3)
SPCH 110	Intercultural Communication	3
or SPCH 150	Organizational Communication	(3)

Section 2 — Critical Thinking Courses

Select 3 units from the following courses:

ENGL 101	Critical Thinking Through Literature	3
ENGL 103	Critical and Argumentative Writing	3
PHIL 103	Philosophical Reasoning – Critical Thinking in Philosophy	3
PHIL 106	Introduction to Logic	3
PSYC 103	Critical Thinking in Psychology	3
READ 200	Analysis and Critical Thinking	3
SPCH 235	Fundamentals of Argumentation and Persuasion	3
INST 100	Principles and Strategies for Problem Solving	3

Section 3 — Additional Courses

Select at least 9 additional units from at least two disciplines from the following courses:

COUN 150	Dynamics of Leadership	3
COUN 200	Success in College and Career	3
ENGL 101	Critical Thinking Through Literature	3
ENGL 103	Critical and Argumentative Writing	3
INST 100	Principles and Strategies for Problem Solving	3
LIB 100	Introduction to Library Resources	1
PHIL 103	Philosophical Reasoning – Critical Thinking in Philosophy	3
PHIL 106	Introduction to Logic	3
PSYC 103	Critical Thinking in Psychology	3

PSYC 220	Research Methods	3
READ 200	Analysis and Critical Thinking	3
SOC 205	Introduction to Social Science Research	3
SPCH 100	Fundamentals of Oral Communication	3†
SPCH 110	Intercultural Communication	3
SPCH 130	Fundamentals of Speaking	3
SPCH 150	Organizational Communication	3
SPCH 235	Fundamentals of Argumentation and Persuasion	3
SPCH 236	Forensics for One Tournament	1
SPCH 237	Forensics for Two Tournaments	1
SPCH 238	Forensics for Three Tournaments	1
SPCH 239	Forensic Workshop	2
Total Units Communication Area of Emphasis		18

† UC credit limits may apply. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

CULTURE AND SOCIETY

Courses in culture and society are an inter-disciplinary activity, developing a global perspective of how western and non-western societies interconnect and interact, and the dynamics of cultural change. Students will develop a critical framework for a better understanding of diverse cultural and historic identities in societal contexts through the study of history, language, literature, sociology, art and art history, and other humanities and social sciences.

This area of emphasis will prepare students for possible baccalaureate degree majors in history, anthropology, international studies, global studies, political science, and literature.

Students pursuing these studies may seek careers in writing, teaching, business, foreign service, social service, law, museum direction, and travel and tourism.

Select at least 6 units from Section 1, at least 6 units from Section 2, at least 6 units from Section 3, and at least 3 units from Section 4 for a total of 21 units.

Courses that appear in more than one section of an area of emphasis may be applied only once in meeting the requirements for that area of emphasis.

Section 1 — World Societies

Select 6 units total from at least two disciplines:

ANTH 100	Cultural Anthropology	3
ANTH 170	Introduction to Language and Culture	3
ANTH 200	Native Peoples of North America	3
ANTH 201	Native Peoples of California	3
GEOG 102	Natural and Cultural Geography	3
HIST 120	History of California	3
HIST 204	Women in American History	3
or WS 204	Women in American History	(3)
HIST 210	History of the United States in the Post World War II Era	3
HUM 100	The Art of Being Human	3
PHIL 104	Philosophy of Cultural Diversity: Challenge and Change	3
PHIL 200	World Religions	3
PHIL 201	Contemporary Philosophy	3
SOC 101	Introductory Sociology Principles	3
SOC 201	Social Problems	3
SOC 215	Sociology of Cultural Diversity: Challenge and Change	3

Curriculum and Requirements for Majors and Certificates

SPAN 206	Hispanic Literature in the Media	3
SPAN 210	Highlights of Hispanic Culture	3
SPCH 110	Intercultural Communication	3
WS 102	Women and Religion	3

Section 2 — The Arts

Select 6 units total from at least two disciplines:

ARCH 112	History of Architecture	3†
ART 100	Introduction to World Art	3
ART 101	Art History 1: Prehistory to Gothic	3
ART 102	Art History 2: Renaissance to Rococo	3
ART 103	Art History 3: Neoclassical to Present	3
ART 104	African Art History	3
ART 105A	The Arts of Latin America and the Caribbean: Pre-Columbian	3
ART 105B	The Arts of Latin America and the Caribbean: Colonial to Present	3
ART 107	Asian Art History	3
ENGL 228	Shakespeare's Plays	3
ENGL 235	Readings in the Drama	3
MUS 101	Introduction to World Music	3
MUS 102	Latino Music	3
DANC 101	History of Dance	3
DANC 109	Introduction to Dance Cultures of the World	3
TH 102	History of the Classical Theatre	3
TH 103	History of the Modern Theatre	3
TH 159	World Film	3

Section 3 — World History and Political Institutions

Select 6 units total from at least two disciplines:

HIST 101	American History and Constitution	3†
HIST 102	Political and Social History of the U.S.: 1500s to 1876	3†
HIST 103	Political and Social History of the U.S.: 1877 to Present	3†
HIST 110	African-American History	3
HIST 120	History of California	3
HIST 204	Women in American History	3
or WS 204	Women in American History	(3)
HIST 210	History of the United States Post WWII 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 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
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
JOUR 100	Mass Communications and Society	3
POL 101	American Political Institutions	3†
POL 201	Introduction to Political Science and American Government	3†
POL 210	International Relations	3
POL 220	Comparative Government	3
POL 230	Contemporary Political Issues: Middle East	3
SPAN 206	Hispanic Literature in the Media	3

Section 4 — World Literatures

Select 3 units from the following courses:

ENGL 221A	Literature in the Bible: Hebrew Scriptures	3
ENGL 221B	Literature in the Bible: Christian Scriptures	3
ENGL 223	Chicana/O Literature	3
ENGL 224	Native American Literature	3
ENGL 225	Mexican Literature in Translation	3
ENGL 226	African American Literature	3
ENGL 236	Studies in Women's Literature	3
ENGL 237	Asian American Literature	3
ENGL 238	Classical Islamic Literature	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
SPAN 206	Hispanic Literature in the Media	3

Total Units Culture and Society Area of Emphasis 21

† UC credit limits may apply. HIST 101, 101LC, 102, 102LC and 103 are combined: maximum credit, two courses. HIST 103 and 210 combined: maximum credit, one course. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

EARTH AND SPACE SCIENCES

These courses emphasize the study of our home planet and its place in the universe, both present and past. Students will examine, explore, and synthesize theories relating to the origin and evolution of Earth, our solar system, and the universe in lecture and laboratory environments.

This area of emphasis will prepare students for possible baccalaureate degree majors in astronomy, earth sciences, geology, oceanography, global studies, environmental science and policy, astronomy and natural science.

Students pursuing these studies may seek careers in geology, oceanography, environmental analysis, science education, urban planning, policy administration, and consulting.

Complete at least seven units, including at least one laboratory from Section A; at least eight units, including one laboratory from Section B; at least three units from Section C; and additional units from any of the sections below for a combined total of 18 units.

Section A — Courses in Astronomy

Choose at least 7 units, including one laboratory, from the following courses:

ASTR 102	Introductory Astronomy: Stars and the Universe	3†
ASTR 103	Introductory Astronomy: The Solar System	3†
ASTR 105L	Observational Astronomy (lab)	1
ASTR 106	History of Astronomy	3

† UC credit limits may apply. ASTR 102 and ASTR 103 are combined: maximum credit, one course.

No credit for ASTR 102 or ASTR 103 if taken after ASTR 101.

Curriculum and Requirements for Majors and Certificates

Section B — Courses in Earth Sciences

Choose at least 8 units, including one laboratory, from the following courses:

ESCI 101	Physical Ecology	3
ESCI 102	Physical Ecology Field Laboratory (lab)	1
ESCI 104	Oceanography	3
ESCI 104L	Oceanography Laboratory (lab)	1
ESCI 106	Weather and Climate	3
GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography Laboratory (lab)	1
GEOL 103	Environmental Geography	3
GEOL 101	Physical Geology (includes lab)	4†

† GEOL 101 meets the laboratory requirement for Section B.

Section C — Courses in Astronomy and Earth Sciences

Choose at least 3 units from the following courses:

ASTR 104	Life in the Universe	3
GEOL 201	Earth History	4
GEOL 204	Geology of the Western National Parks and Monuments	3
GEOL 207	Paleontology, Life of the Past	4
GEOL 209	Natural Disasters	3

Total Minimum Units Earth and Sciences Area of Emphasis 18

HISTORICAL PERSPECTIVES

The Historical Perspectives area of emphasis gives the students a broad range look at various aspects of history. The courses include history of this region, state, and country; this world, and history of the arts and sciences.

This area of emphasis will prepare students for possible baccalaureate degree majors in history, Eastern studies, Latin American studies, ethnic studies, anthropology, religious studies, and history of science.

Students pursuing these studies may seek careers as an archivist, historian, politician, journalist, educator, or in business, research, government service, and public policy.

Section 1 — American History

Select at least 6 units from the following courses:

ANTH 200	Native Peoples of North America	3
ANTH 201	Native Peoples of California	3
HIST 101	American History and Constitution	3†
HIST 102	Political and Social History of the United States: 1500s to 1876	3†
HIST 103	Political and Social History of the United States: 1877 to Present	3†
HIST 110	African-American History	3
HIST 120	History of California	3
HIST 204	Women in American History	3
or WS 204	Women in American History	(3)
HIST 210	History of the United States in the Post World War II Era	3†

† UC credit limits may apply. HIST 101, 101LC, 102, 102LC and 103 are combined: maximum credit, two courses. HIST 103 and 210 combined: maximum credit, one course. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

Section 2 — World and Ethnic History

Select at least 6 units from the following courses:

ANTH 202	The Maya, Inca and Aztecs: Ancient Civilizations of The Americas	3
HIST 220	History of the Americas	3
or HIST 221	History of the Americas	(3)
HIST 230	History of Mexico	3
or HIST 235	History of Latin America	(3)
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)
HIST 250	History of England, Great Britain and the Commonwealth	3
or HIST 255	History of Russia and the Soviet Union	(3)
or HIST 260	Survey of the History of Asia	(3)
or HIST 265	Selected Problems in Contemporary Asian History	(3)

Section 3 — History of the Arts and Sciences

Select at least 6 units from the following courses:

ART 101	Art History 1: Prehistory to Gothic	3
or ART 102	Art History 2: Renaissance to Rococo	(3)
or ART 103	Art History 3: Neoclassical to Present	(3)
ART 104	African Art History	3
ART 105A	The Arts of Latin America and the Caribbean: Pre-Columbian	3
or ART 105B	The Arts of Latin America and the Caribbean: Colonial to Present	(3)
ART 107	Asian Art History	3
ARCH 112	History of Architecture	3†
ASTR 106	History of Astronomy	3
DANC 101	History of Dance	3
MUS 104B	History of Rock Music	3
PHOT 160	History of Photography	3
TH 102	History of the Classical Theatre	3
or TH 103	History of the Modern Theatre	(3)
or TH 104	History and Appreciation of Musical Theatre	(3)

Total Units Historical Perspectives Area of Emphasis 18

† UC credit limits may apply. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

LITERATURE AND LANGUAGES

The literature and language emphasis offers students two principal disciplines: the study of literature in English and/or the study of foreign languages. The literature discipline introduces British, American, and world literary history through the study of writers recognized for their significant literary merit. Courses explore the boundaries of literature through genre, period, theme, language, and culture. Students may train in critical and creative writing as well. The languages discipline is sequenced to provide practical competence in French, German, Japanese, Sign Language or Spanish, as well as elementary Chinese. Students perfect their linguistic skills and study original language literary texts to appreciate the nuances of language and global culture.

This area of emphasis will prepare students for possible baccalaureate degree majors in anthropology, literature, cultural studies, and languages.

Students pursuing these studies may seek careers in publications, communications, education, media, law, international business, entertainment, administration, the arts, translation, and foreign service.

Curriculum and Requirements for Majors and Certificates

Section 1

Select 3 units from one of the following:

ANTH 170	Introduction to Language and Culture	3
ENGL 101	Critical Thinking Through Literature	3
ENGL 106	Introduction to Linguistics	3

Section 2

Select a minimum of 15 units from one or more of the following disciplines:

Art and Culture

ANTH 100	Cultural Anthropology	3
ART 108	Black Images in Popular Culture	3
or HUM 108	Black Images in Popular Culture	(3)
ART 109	Gender and Sexuality in Art	3
or HUM 109	Gender and Sexuality in Art	(3)
SPAN 206	Hispanic Literature in the Media	3
SPAN 210	Highlights of Hispanic Culture	3
SPAN 245	Intro to Chicano/Mexican American Culture	3
SPCH 240	Oral Interpretation: Readers' Theatre	3
TH 159	World Film	3

English

ENGL 221A	Literature in the Bible: Hebrew Scriptures	3
ENGL 221B	Literature in the Bible: Christian Scriptures	3
ENGL 223	Chicano/a Literature	3
ENGL 224	Native American Literature	3
ENGL 225	Mexican Literature in Translation	3
ENGL 227	Current Literature	3
ENGL 228	Shakespeare's Plays	3
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 234	Readings in Short Fiction	3
ENGL 238	Classic Islamic Literature	3
ENGL 235	Readings in the Drama	3
ENGL 240	Creative Writing	3
ENGL 241	Screenwriting	3
or TH 241	Screenwriting	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

Chinese

CHIN 101	Elementary Chinese	5

French

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 1	4
FREN 281	Beginning Conversational French	3
FREN 282	Intermediate Conversational French	3
FREN 283	Advanced Conversational French	3

German

GERM 101	Elementary German	5
GERM 102	Elementary German	5
GERM 201	Intermediate German	4

GERM 202	Intermediate German	4
GERM 203	Scientific German	4
GERM 204	Scientific German	4
GERM 281	Beginning Conversational German	3
GERM 282	Intermediate Conversational German	3
GERM 283	Advanced Conversational German	3
GERM 291	German for International Commerce	3
GERM 292	German for International Commerce	3

Japanese

JAPN 101	Elementary Japanese	5
JAPN 102	Elementary Japanese	5
JAPN 201	Intermediate Japanese	5
JAPN 202	Intermediate Japanese	4
JAPN 281	Beginning Conversational Japanese	3
JAPN 282	Intermediate Conversational Japanese	3
JAPN 283	Advanced Conversational Japanese	3

Sign Language

SL 101	Beginning American Sign Language	3
SL 102	Intermediate American Sign Language	3
SL 201	Advanced American Sign Language	3

Spanish

SPAN 101	Elementary Spanish	5
SPAN 102	Elementary Spanish	5
SPAN 111	Elementary Spanish for Spanish Speakers	5
SPAN 112	Elementary Spanish for Spanish Speakers	5
SPAN 201	Intermediate Spanish	5
SPAN 202	Intermediate Spanish	4
SPAN 205	Advanced Spanish Composition	3
SPAN 281	Beginning Conversational Spanish	3
SPAN 282	Intermediate Conversational Spanish	3
SPAN 283	Advanced Conversational Spanish	3

Total Units Literature and Languages 18

MEDIA STUDIES

These courses introduce the student to the role and impact of the mass media and their images in society and provide an exploratory introduction to several mass media major areas of study.

This area of emphasis will prepare students for possible baccalaureate degree majors in journalism, mass communications, entertainment and media studies, broadcasting, film, and public relations.

Students pursuing these studies may seek careers in screen writing, film and entertainment, mass communications, media, law, education, and journalism.

Select 18 units from at least two disciplines from the following courses:

ART 108	Black Images in Popular Culture	3
or HUM 108	Black Images in Popular Culture	(3)
ENGL 241	Screenwriting	3
or TH 241	Screenwriting	(3)
JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning News Writing and Reporting	3
JOUR 121	Multimedia Reporting	3
JOUR 157	Principles of Public Relations	3
or BA 157	Principles of Public Relations	(3)
RTV 151	Motion Pictures, Radio and Television	3
or TH 151	Motion Pictures, Radio and Television	(3)

Curriculum and Requirements for Majors and Certificates

RTV 152	Introduction to Broadcasting	3
READ 200	Analysis and Critical Reading	3
SPAN 206	Hispanic Literature in the Media	3
SPCH 130	Fundamentals of Speaking	3
TH 150	Appreciation and History of the Motion Picture	3
TH 153	Motion Picture Production	3
TH 156	Television Production	3
TH 159	World Film	3
TH 193	Motion Picture Editing	3
Total Units Media Studies Area of Emphasis		18

SELF-DEVELOPMENT AND SOCIAL BEHAVIOR

This emphasis provides students with knowledge and understanding of social behavior theories, concepts, and principles as applied to self-development. It is designed to prepare students to use acquired knowledge to communicate and collaborate more effectively. These courses are intended to assist students with the application of this knowledge to their lives in meaningful ways, including student growth, purpose, and vitality. Students will learn to become productive citizens who care for themselves and others and will be prepared to work with people and their communities.

This area of emphasis will prepare students for possible baccalaureate degree majors in social, health, and human services majors.

Students pursuing these studies may seek careers in service/community-oriented fields, fitness, and in health professions.

Select at least 6 units from Section 1, at least 3 units from Section 2, and at least 3 units from Section 3. Then complete at least 6 additional units from any section or combination of sections (1, 2, or 3) to reach a total of 18 units.

Section 1 — Theory and Background

Select at least 6 units from the following courses:

ANTH 170	Introduction to Language and Culture	3
BA 107	Human Relations in Business	3
CD 110	Child Development	3
CDEC 113	The Child, the Family, and the Community	3
CDIT 151	Infant and Toddler Development	3
ENGL 106	Introduction to Linguistics	3
GEOG 102	Natural and Cultural Geography	3
HIST 101	American History and Constitution	3†
HIST 102	Political and Social History of the United States: 1550s to 1876	3†
HIST 103	Political and Social History of the United States: 1877-Present	3†
HIST 110	African American History	3
HIST 120	History of California	3
PE 105	Student Athletes in Society	2
PE 253	Sports Psychology	3
POL 101	American Political Institutions	3†
POL 201	Introduction to Political Science and American Government	3†
PSYC 101	General Introductory Psychology	3
PSYC 220	Research Methods	3
PSYC 245	Drugs and Behavior	3
PSYC 251	Developmental Psychology	3
PSYC 261	Social Psychology	3
PSYC 271	Abnormal Psychology	3
PE 105	The Student Athlete and Society	2
PE 106	Women in Sports	3
or WS 106	Women in Sports	(3)

PE 253	Sports Psychology	3
SOC 101	Introductory Sociology Principles	3
SOC 110	Marriage and the Family	3
SOC 201	Social Problems	3
SOC 205	Introduction to Social Science Research	3
SPAN 245	Introduction to Chicano/Mexican American Culture	3
SPCH 100	Fundamentals of Oral Communication	3
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 235	Fundamentals of Argumentation and Persuasion	3
TH 108	Improvisation for the Theatre	3
TH 110	Fundamentals of Acting	3
WS 101	Issues for Women in American Society	3

† UC credit limits may apply. HIST 101, 101LC, 102, 102LC and 103 are combined: maximum credit, two courses. HIST 103 and 210 combined: maximum credit, one course. SPCH 100 and 132 combined: maximum credit, one course. POL 101 and 102 combined: maximum credit, one course. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

Section 2 — Student Development and Application

Select at least 3 units from the following courses:

COUN 100	Counselor Aide in the Community College	2
COUN 150	Dynamics of Leadership	3
COUN 200	Success in College and Career	3
COUN 210	Job Search Strategies	3
COUN 220	Transition to Universities	3
LIBR 100	Introduction to Library Resources	1

Section 3 — Student Vitality

Select at least 3 units from the following courses:

HED 100	Contemporary Health Problems	3
HED 101	Stress Management	3
HED 103	Women, Their Bodies and Health	3
or WS 103	Women, Their Bodies and Health	(3)
HED 200	Nutrition for Health, Fitness and Physical Activity	3
HO 152	Normal and Therapeutic Nutrition	3
PE 130	Stretching and Relaxation	1†
PE 131	Walking for Fitness	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 141	Fitness and Wellness	3†
PE 142	Fitness and Wellness for Older Adults	2†
PE 143	Personal Fitness Program	1†
PE 146	Weight Management	1†
PE 149A	Beginning Jogging for Fitness	1†
PE 149B	Intermediate Jogging for Fitness	2†
PE 160	Personal Self Defense	1†
PE 254	Measurement and Interpretation of Fitness	3

Total Units Self-Development and Social Behavior Area of Emphasis 18

† UC credit limits may apply. Any or all of these PE courses combined: maximum credit, four units. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

SOCIAL AND BEHAVIORAL SCIENCE

The following area of study allows students to take courses that will prepare them for possible majors within the field of social and behavioral science. Courses in the social and behavioral sciences focus on the human and social conditions of society. Courses explain how people behave within their societies and social institutions, including interactions between subcultures, creating an appreciation of human interaction and perceptions of reality. Using critical analysis, students will develop an awareness of social science research methods and theories in the social and behavioral sciences.

This area of emphasis will prepare students for possible baccalaureate degree majors in anthropology, economics, history, political science, psychology, and sociology.

Students pursuing these studies may seek careers in social work, counseling, probation and parole, politics, archiving, and business.

Select 18 units from at least three different disciplines.

AJ 101	Introduction of Administration of Justice	3
ANTH 100	Cultural Anthropology	3
or SOC 101	Introductory Sociology Principles	(3)
ANTH 120	Introduction to Archaeology	3
ANTH 170	Introduction to Language and Culture	3
ANTH 200	Native Peoples of North America	3
ANTH 202	The Maya, Inca and Aztecs: Ancient Civilizations of the Americas	3
ANTH 205	The Anthropology of Sexuality and Gender	3
or WS 205	The Anthropology of Sexuality and Gender	(3)
CD 110	Child Development	3
COUN 200	Success in College and Career	3
ECON 101	Economic Issues and Policy	3†
ECON 102	Women in Global Economy	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
ECON 204	Money, Ethics, and Economic Justice	3
GEOG 102	Natural and Cultural Geography	3
GEOG 105	World Regional Geography	3
HIST 101	American History and Constitution	3†
HIST 102	Political and Social History of the United States: 1500s to 1876	3†
HIST 103	Political and Social History of the United States: 1877 to Present	3†
HIST 110	African-American History	3
HIST 120	History of California	3
HIST 204	Women in American History	3
or WS 204	Women in American History	(3)
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 241	Western Civilization	3
HIST 245	World Civilization from Antiquity to 1500	3
HIST 246	World Civilization from 1500 to Present	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
POL 101	American Political Institutions	3†
POL 110	California State and Local Government	3

POL 201	Introduction to Political Science and American Government	3†
POL 210	International Relations	3
POL 220	Comparative Government	3
POL 230	Contemporary Political Issues: Middle East	3
PSYC 101	General Introductory Psychology	3
PSYC 150	Personal and Social Adjustment	3
PSYC 251	Developmental Psychology	3
PSYC 261	Social Psychology	3
PSYC 271	Abnormal Psychology	3
SOC 110	Marriage and the Family	3
SOC 120	Introduction to Human Sexuality	3
SOC 201	Social Problems	3
SOC 202	Gender and Society	3
SOC 205	Introduction to Social Science Research	3
SOC 210	American Minority Relations	3
SOC 220	Introduction to Human Services	3
SOC 215	Sociology of Cultural Diversity: Challenge and Change	3
SOC 230	Juvenile Delinquency	3
SOC 250	Sociology of Aging	3
WS 101	Issues for Women in American Society	3
WS 102	Women and Religion	3
WS 206	Women in the Global Economy	3
Total Units Social And Behavioral Science Area of Emphasis		18

† UC credit limits may apply. No credit for ECON 101 if taken after ECON 202, HIST 101, 101LC, 102, 102LC, and 103 are combined: maximum credit, two courses. HIST 103 and 210 combined: maximum credit, one course. POL 101 and 201 combined: maximum credit, one course. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

VISUAL COMMUNICATION

This area of emphasis will focus on the power of images and serves as an introduction to techniques for improved visual communication. It starts with a study of images in culture, progresses to visual communication exploration, and culminates with learning hands-on skill development.

This area of emphasis will prepare students for possible baccalaureate degree majors in art, graphic arts, graphic design, desktop publishing, communication, theatre, and photography.

Students pursuing these studies may seek careers in film and entertainment, mass communications, media, publishing, photography, education, museum work, web design, theatre stage design, and journalism.

Section 1 — Critical Analysis of Images

Select 3 units from the following courses:

ART 108	Black Images in Popular Culture	3
or HUM 108	Black Images in Popular Culture	(3)
ART 109	Gender and Sexuality in Art	3
or HUM 109	Gender and Sexuality in Art	(3)
PHOT 160	History of Photography	3

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Section 2 — Theories of Visual Communication

Select 6 units from the following courses:

ART 188	Design for Desktop Publishing	3
JOUR 121	Multimedia Reporting	3
JOUR 130	Photojournalism	3
or PHOT 130	Photojournalism	(3)
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Photography	3
SPAN 206	Hispanic Literature in the Media	3

Section 3 — Applied Techniques of Communication

Select 9 units from the following courses:

ART 110	Freehand Drawing	3
ART 116	Beginning Printmaking	3
ART 120	Two-Dimensional Design	3†
ART 130A	Fundamentals of Painting	3
ART 114	Storyboard and Graphic Novel Illustration	3
ART 150	Introduction to Ceramics	3
ART 182A	Lettering and Typography	3
ART 184	Graphic Design I	3
TH 153	Motion Picture Production	3
TH 156	Television Production	3
TH 193	Motion Picture Editing	3
Total Units Visual Communication Area of Emphasis		18

† UC credit limits may apply. Please see list of UC transferable courses in ASSIST (<http://www.assist.org>) or a counselor for explanation.

MACHINE TOOL TECHNOLOGY

CAREER OPPORTUNITIES:

Machinist
Machine Shop Owner
Numerical Control Machine Operator
Numerical Control Tool Programmer
Tool and Die Maker

CERTIFICATE OF ACHIEVEMENT

MACHINIST OPTION

MTT 50	CNC Shop Math	3
MTT 52	Setup and Operation of CNC Milling Machines	2.5
MTT 54	CNC Blueprint Reading	2.5
MTT 56	CNC Shop Inspection	2
MTT 57	Setup and Operation of CNC Lathes	2.5
MTT 58	Computer Assisted Inspection Using Verisurf	3
MTT 60	Advanced Machine Tool Concepts	2
MTT 62	Fixture Tooling	2
MTT 94L	Manual Machining Laboratory	1
MTT 100	Machine Tool Introduction	2
MTT 170	Computer Numerical Control Programming	2
MTT 180	Robotics for CNC Machines	3
TOTAL UNITS		27.5

NUMERICAL CONTROL MACHINE OPERATOR OPTION

MTT 50	CNC Shop Math	3
MTT 52	Setup and Operation of CNC Milling Machines	2.5
MTT 54	CNC Blueprint Reading	2.5
MTT 56	CNC Shop Inspection	2

MTT 57	Setup and Operation of CNC Lathes	2.5
MTT 58	Computer Assisted Inspection Using Verisurf	3
MTT 62	Fixture Tooling	2
MTT 91L	CNC Mill Machining Laboratory	1
MTT 95L	CNC Lathe Machining Laboratory	1
MTT 100	Machine Tool Introduction	2
MTT 170	Computer Numerical Control Programming	2
MTT 180	Robotics for CNC Machines	3
TOTAL UNITS		26.5

NUMERICAL CONTROL TOOL PROGRAMMER MAJOR REQUIREMENTS OPTION

MTT 50	CNC Shop Math	3
MTT 52	Setup and Operation of CNC Milling Machines	2.5
MTT 54	CNC Blueprint Reading	2.5
MTT 56	CNC Shop Inspection	2
MTT 57	Setup and Operation of CNC Lathes	2.5
MTT 76	GibbsCAM Milling	2.5
and MTT 77	GibbsCAM Turning	2.5
and MTT 177	Advanced GibbsCAM	2.5
or MTT 51	MasterCAM Milling	(3.5)
and MTT 59	MasterCAM Turning	(2.5)
and MTT 278	MasterCAM Advanced	(3.5)
MTT 91L	CNC Mill Machining Laboratory	1
MTT 92L	MasterCam Laboratory	1
or MTT 93L	Virtual Gibbs Laboratory	(1)
MTT 95L	CNC Lathe Machining Laboratory	1
MTT 100	Machine Tool Introduction	2
MTT 170	Computer Numerical Control Programming	2
MTT 180	Robotics for CNC Machines	3
TOAL UNITS		30 (32)

TOOL AND DIE MAKER OPTION

MTT 50	CNC Shop Math	3
MTT 52	Setup and Operation of CNC Milling Machines	2.5
MTT 54	CNC Blueprint Reading	2.5
MTT 56	CNC Shop Inspection	2
MTT 57	Setup and Operation of CNC Lathes	2.5
MTT 58	Computer Assisted Inspection Using Verisurf	3
MTT 60	Advanced Machine Tool Concepts	2
MTT 62	Fixture Tooling	2
MTT 94L	Manual Machining Laboratory	1
MTT 100	Machine Tool Introduction	2
PMT 100	Plastics Technology	2.5
WELD 100	Welding Fundamentals	2.5
TOTAL UNITS		27.5

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete 60 units to include (1) the above requirements for a Certificate of Achievement; (2) MTT 61 and MTT 96L (3) the Associate of Arts Degree general education requirements; and (4) electives as needed.

RECOMMENDED ELECTIVES: WELD 120, WELD 130.

See Cerritos College Graduation Requirements.

MASS COMMUNICATIONS

CAREER OPPORTUNITIES:

Advertising Sales	News Director/Editor*
Anchorperson/Newscaster*	Photojournalist
Audio Engineer/Sound Editor	Production Manager/Assistant*
Broadcast Engineering Technician	Public Relations*
Broadcast Journalist*	Reporter*
Copy Editor/Writer	Sales Manager*
Desktop Publisher	Sports Writer/Broadcaster*
Disk Jockey	Station Manager*
Journalist (print/multimedia)	Teacher/Professor*
	Weathercaster*

*Bachelor's degree normally required.

BROADCAST MEDIA ASSOCIATE IN ARTS DEGREE

COMPLETE 21 CORE UNITS

	27 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 Television	3
RTV 152 Introduction to Broadcasting	3
RTV 155 Radio Production	3
RTV 298 Directed Studies in Radio/TV	1
or RTV 171 Occupational Work Experience in Broadcasting	(1)
FILM 102 Television Production	3

PLUS A MINIMUM OF 6 UNITS FROM THE FOLLOWING

MUS 146 Recording Techniques	2
RTV 175 Sports Casting*	1
RTV 176 Talk Radio Broadcasting*	1
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
FILM 241 Screenwriting	3

* These courses may be repeated and applied twice.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete a minimum of 60 units to include (1) the above courses and units, (2) A.A. Degree General Education requirements, and (3) electives as needed.

See Cerritos College Graduation Requirements.

JOURNALISM ASSOCIATE IN ARTS DEGREE

TOTAL OF 29 UNITS

CORE REQUIREMENTS (9 UNITS)

	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 106	talonmarks.com	1 (2)
JOUR 107	College Newspaper	3 (6)
JOUR 160	College Magazine Production	1 (2)

Additional Requirements (14 units)

ART 188	Design for Desktop Publishing	3
ART 194	Multimedia Design	3
ART 196	Web Design with Flash and Dreamweaver	3
CIS 205	Programming HTML for the World Wide Web	1.5
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 298	Directed Studies in Journalism (may be applied twice)	1 (2)
or JOUR 50	Editorial Board (may be applied twice)	(1) (2)
JOUR 299	Directed Studies in Journalism (must be a media internship)	2
or JOUR 171	Occupational Work Experience in Journalism (must be in media internship)	(1)
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Photography	3
RTV 175	Sportscasting	1
RTV 176	Talk Radio Broadcasting	1
SPCH 160	Parliamentary Procedure	1

NOTE: Journalism students intending to transfer to a four-year college are referred to the Transfer Journalism Major Requirements 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) A.A. Degree General Education Requirements, and (3) electives as needed.

JOURNALISM

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 50	Editorial Board	1 (2)
JOUR 106	talonmarks.com	1 (2)
JOUR 107	College Newspaper	3 (6)
JOUR 160	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	Web Design with Flash and Dreamweaver	3
CIS 205	Programming HTML for the World Wide Web	1.5
JOUR 50	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 107	College Newspaper (second or third completion)	3 (6)
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 298	Directed Studies in Journalism (may be applied twice)	1 (2)
or JOUR 50	Editorial Board (may be applied twice)	(1) (2)
JOUR 299	Directed Studies (must be a media internship)	2
or JOUR 171	Occupational Work Experience (must be a media internship)	(2)
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Photography	3
RTV 175	Sportscasting	1
RTV 176	Talk Radio Broadcasting	1
SPCH 160	Parliamentary Procedure	1

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)

ART 188	Design for Desktop Publishing	3
BA 114	Marketing	3
JOUR 106	Talonmarks.com	1
JOUR 107	College Newspaper*	3
JOUR 130	Photo Journalism	3
or PHOT 130	Photo Journalism	(3)
JOUR 160	College Magazine Production (requires corequisite)	1
PHOT 100	Introductory Photography	3
PHOT 110	Introduction to Digital Photography	3
RTV 155	Radio Production	3

*May be repeated and applied twice.

ADDITIONAL REQUIREMENTS (UP TO 5 UNITS)

ART 194	Multimedia Design	3
ART 196	Web Design with Flash and Dreamweaver	3
JOUR 111	Introduction to Newsletters	1
JOUR 112	Copy Editing Skills	1
JOUR 122	Creating Podcasts for Media	1
JOUR 170	Broadcast News/Webcasting	1
or RTV 170	Broadcast News/Webcasting	(1)
JOUR 298	Directed Studies in Journalism	1
JOUR 299	Directed Studies in Journalism (must be a media internship)	2
or JOUR 171	Occupational Work Experience in Journalism (must be a media internship)	1
SPCH 160	Parliamentary Procedure	1

See Cerritos College Graduation Requirements.

MEDICAL ASSISTANT

Cerritos College offers a Certificate of Achievement or an Associate of Arts in Medical Assisting. The student must achieve a grade of "C" or better in all required medical assisting courses to qualify for the Certificate of Achievement and/or Associate of Arts Degree in Medical Assisting. Twelve units of the Medical Assistant program must have been taken within the last five (5) years. Upon successful completion of program requirements, the student is eligible for a Cerritos College Medical Assistant pin.

1. Medical Assistant Certificate of Achievement

The Medical Assistant Program may be completed in two semesters when started in the fall semester. Both front office (administrative) and back office (clinical) training is available. A clinical lab experience is 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 and A&P 120, electives, and General Education requirements to achieve a minimum of 60 units.

Full-time students can complete this program in two semesters 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 (elective from list).

SPRING: MA 66, MA 67, MA 68 or MA 73 or MA 74, PSYC 101 or PSYC 150, or equivalent, and additional electives if needed.

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 numerical 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

- A. See the college catalog for enrollment fees.
- B. 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.

Essential requirements for the Medical Assistant Program

The Medical Assistant (MA) Program requires the acquisition of knowledge and skills related to the practice of patient care in ambulatory settings. Cerritos College endeavors to educate students who have the ability to become highly competent MAs. Program completion decisions for starting and/or completing the MA program are based on the academic clinical factors which serve to insure that the student can complete the essential functions of the MA program in a variety of clinical settings such as general practice, internal medicine, pediatrics, OB/GYN, after hours care, and specialty practices in the ambulatory care settings.

Cerritos College is committed to the principle of equal opportunity, and as such does not discriminate on the basis of race, color, creed, religion, national origin, gender, sexual orientations, age, marital status, disability or veteran status. When requested, the College and the program will provide reasonable accommodation to otherwise qualified students with disabilities.

The program curriculum requires the following essential abilities: sensory and motor skills related to patient treatment, ability to comprehend, analyze problem solving and behavioral and social aspects of performance related to that of a medical assistant. The student must have the cognitive abilities necessary to master relevant content in academic and clinical courses at a level deemed appropriate by the faculty. These skills may be described as the ability to comprehend, memorize, analyze and synthesize material. She/he must be able to discern and comprehend dimensional and spatial relationships of structures and develop reasoning and decision-making skills appropriate to the practice of medical assisting.

The student must have the ability to demonstrate proper body mechanics. The students must have the ability to safely assist a patient in moving: different positions on the exam table, from a chair to an exam table and back down, or from a car to a wheelchair and from a wheelchair to a car. The student will be able to: sit up to 1.5 hours in an 8 hour shift (charting, talking on the phone; stand or walk on a continuous basis (rooming patients, assisting provider, retrieving medical records/X-rays/lab reports, assisting family members; equipment sanitization/disinfection; lifting on a frequent basis from 25 to 250 pounds (charts, equipment, Xrays, supplies, patients); pushing on a frequent basis up to 45 pounds effort (gurneys, wheelchairs, carts, crash cart); pulling on a frequent basis up to 70 pounds effort (positioning patients on the exam table/surgical table, transferring from gurney or wheelchair to chair/exam table); crouching frequently = bending at the knees (retrieving supplies/equipment from cabinet shelves/off the floor); stooping frequently = bending at the waist (during assisting the provider, procedures, retrieval of items from cabinet); twisting frequently (transferring patients, assisting provider with procedures/treatments, performing sterile techniques); reaching frequently (during procedures, EKGs, transferring, assisting provider/family members, obtaining supplies); kneeling occasionally (transferring patients, performing CPR, obtaining supplies); handling and grasping frequently (preparing and

administering medications, performing dressing changes, suture/staple removal and other procedures, manipulation of oxygen equipment, obtaining supplies, using computer keyboards, fine motor dexterity for handling medical instruments, autoclave operation); operations of equipment and tools on a frequent basis ranging from 2 to 40 pounds of effort (bovie machine, CPR crash cart, sigmoidoscopy, suture trays, surgical trays, cystoscopes, exam tables, autoclave operation, measuring vital signs, specimen collection, phlebotomy).

The student must be able to take information and record patient treatment into the patient's record. The student must be able to communicate with the patient, caregiver and staff, all aspects related to the patient's care. This communication will include verbal, written and non-verbal content including the transmission and follow-up inquiry of information. The student must be capable of responsive, empathetic listening and speaking to establish rapport in a way that promotes openness on issues and concern and sensitivity to potential cultural differences. She/he must have the emotional stability to function effectively under stress and be able to adapt to an environment which may change rapidly without warning and/or in unpredictable ways.

These essential requirements of medical assistant education are used in consideration of starting, retention and completion from the Cerritos College program. Graduates are expected to be fully qualified to enter the profession as an MA. It is the responsibility of the student with disabilities to provide verification of the disability and resulting limitations, and to make advance requests for those accommodations that he/she feels are reasonable and needed to execute the essential requirements described.

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 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.

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

		UNITS
HO 53	Electrocardiography	1
HO 54	Medical Laboratory Skills	1
HO 55	Phlebotomy Procedures	1.5
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	3
MA 66	Medications and Specialties	3
MA 67	Medical Office Administration	3
*MA 68	Medical Assisting Internship Experience	4
or *MA 73	Medical Assisting Occupational Work Experience	(3)
or *MA 74	Medical Assisting Occupational Work Experience	(4)
MA 161	Medical Terminology	3

PSYCHOLOGY

PSYC 101	General Introductory Psychology	3
or PSYC 150	Personal and Social Adjustment	(3)

AND classes from the list below to complete a minimum of 29 units:

BCOT 114	Introduction to Microsoft Office	3.5
CIS 101	Introduction to Computer Information Systems	3
HO 150	Professional/CPR and First Aid (Fall semester only)	1.5
HO 152	Nutrition	(3)
SPAN 223	Spanish for Health and Medical Careers (Or an equivalent)	3

TOTAL CERTIFICATE REQUIREMENTS (29)31

*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 should enroll in MA 73. Students who are currently employed in a medical office more than 20 hours per week should 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 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.

MENTAL HEALTH WORKER

CAREER OPPORTUNITIES:

Paraprofessional in Community-Based Mental Health
Paraprofessional for Housing Departments

CERTIFICATE OF ACHIEVEMENT MAJOR REQUIREMENTS

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	Introduction to 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, A.A. 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 Major Requirements.

MUSIC

CAREER OPPORTUNITIES:

Accompanist	Music Teacher/Professor*
Church Music Director/Cantor	Music Therapist*
Concert Hall/Stage Manager*	Private Instrument/Piano Teacher
Conductor (choral, band, orchestra)*	Producer/Record Executive
Copyist/Editor	Recording Artist
Music Journalist*	Sound Reinforcement
Music Librarian*	Sound Editing
Music Production/Engineering	Studio Performer
Music Publicist	Vocal Coach
Music Retail Sales	

* Bachelor's degree normally required.

MUSIC – GENERAL

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

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.

Curriculum and Requirements for Majors and Certificates

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/Technique	1
MUS 149* Private Study/Musical Preparation	1
MUS 150* Private Study/Performance Practice	1
MUS 151* Private Study/Recital Preparation	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, or 154.

**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, or 154.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

A minimum of 60 units to include: (1) The above music course and unit requirements, (2) the A.A. Degree General Education requirements, and (3) electives as needed.

COMMERCIAL MUSIC

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

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, or 154.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

A minimum of 60 units to include: (1) The above music course and unit requirements, (2) the A.A. Degree General Education requirements, and (3) electives as needed.

PIANO

CERTIFICATE OF COMPLETION

The two-level Certificate of Completion piano teaching Major Requirements 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/Technique	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/Musical Preparation	1
MUS 150 Private Study/Performance Practice	1
MUS 153 The Art of Teaching Intermediate Piano	2
MUS 154 Piano Ensemble	1.5
TOTAL UNITS:	13.5

NATURAL SCIENCES – GENERAL

CAREER OPPORTUNITIES:

Health Professions
Secondary Teacher

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

In order to qualify for an A.A. Degree in Natural Sciences - General, the following requirements must be met:

1. Completion of the A.A. Degree General Education and Proficiency Requirements;
2. Completion of a minimum of 60 degree applicable units;
3. Choose at least 4 units from section a, at least 4 units from Section B, and at least 3 units from Section C;
4. Completion of another 7 units of science related course work from any section below, for a combined total of at least 18 units of science related course work.

A. Course in the Physical Sciences (Choose at least 4 units)

	UNITS
ASTR 102 Introductory Astronomy: Stars and the Universe	3
ASTR 103 Introductory Astronomy: The Solar System	3
ASTR 104 Life in the Universe	3
ASTR 105L Observational Astronomy	1
ASTR 106 History of Astronomy	3
CHEM 100 Introductory Chemistry	4
CHEM 105 Chemistry for Elementary School Teachers	1.5
CHEM 110 Elementary Chemistry	4
CHEM 111 General Chemistry	5

Curriculum and Requirements for Majors and Certificates

CHEM 112	General Chemistry	5
CHEM 205	Quantitative Analysis Chemistry	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
ESCI 101	Physical Ecology	3
ESCI 102	Physical Ecology Field Laboratory	1
ESCI 104	Oceanography	3
ESCI 104L	Oceanography Laboratory	1
ESCI 106	Weather and Climate	3
ESCI 110	Introduction to Earth Science	4
GEOG 101	Physical Geography	3
GEOG 101L	Physical Geography Laboratory	1
GEOG 103	Environmental Geography	3
GEOL 100	Natural History of So California	1
GEOL 101	Physical Geology	4
GEOL 201	Earth History	4
GEOL 204	Geology of the Western National Parks and Monuments	3
GEOL 207	Paleontology, Life of the Past	4
GEOL 208	The Age of the Dinosaurs	3
GEOL 209	Natural Disasters	3
PHYS 100	Elementary Physics	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
PS 100	Physical Science of Modern Technology	3
PS 112	Physical Science for Elementary School Teachers	3

B. Courses In The Biological Sciences (Choose at least 4 units)

A&P 120	Introduction to Human Anatomy and Physiology	4
A&P 130	Human Anatomy and Physiology	5
A&P 150	Introduction to Human Anatomy	4
A&P 151	Introduction to Human Physiology	4
A&P 200	Human Anatomy	5
A&P 201	Human Physiology	5
ANTH 115	Physical Anthropology	3
ANTH 115L	Introduction to Physical Anthropology Lab	1
BIOL 115	Marine Biology	3
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
BOT 120	Introduction to Plant Science	4
MICR 200	Microbiology	5
PSYC 241	Introduction to Psychobiology	3
ZOOL 120	Introduction to Animal Biology	4

C. Courses In Mathematics (Choose at least 3 units)

MATH 105	Activity-Based Probability and Statistics for Elementary and Middle School Teachers	3
MATH 110A	Mathematics for Elementary Teachers	3
MATH 110B	Mathematics for Elementary Teachers	3
MATH 112	Elementary Statistics	4
MATH 114	College Algebra	4
MATH 115	Finite Mathematics	4
MATH 116	Calculus for Managerial, Biological, and Social Science	4
MATH 140	Trigonometry	3

MATH 150	Precalculus Math	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
MATH 240	Calculus and Differential Equations	4
PSYC 210	Elementary Statistics	4

See Cerritos College Graduation Requirements.

NEW PRODUCT DEVELOPMENT

CERTIFICATE OF ACHIEVEMENT PROGRAM

AUTOMOTIVE AFTERMARKET PRODUCT DEVELOPMENT OPTION

		UNITS
NPD 100	Product Development in a Global Economy	3
NPD 101	Innovation using Rapid Prototyping	3
NPD 102	Quality Systems for Automotive Industries ISO 16949	3
NPD 103	Advanced Tooling and Materials for New Product Development	3
NPD 104	Productivity in Automotive Aftermarket Manufacturing	3
NPD 105	Electronic Systems and Integration in Automotive Aftermarket	3
TOTAL UNITS:		18

NEW PRODUCT DEVELOPMENT AND FABRICATION OPTION

NPD 100	Product Development in a Global Economy	3
NPD 101	Innovation using Rapid Prototyping	3
MTT 51	MaterCAM Milling	3.5
MTT 52	Setup and Operation of CNC Milling Machines	3
MTT 57	Setup and Operation of CNC Lathes	3
PMT 100	Plastics Technology	2.5
WELD 100	Welding Fundamentals	2.5
WMT 101	Introduction to Woodworking	3
TOTAL UNITS:		23.5

ASSOCIATE OF ARTS DEGREE REQUIREMENTS:

Complete 60 units to include: (1) the above requirements for a specific Certificate of Achievement; (2) the Associate of Arts Degree General Education requirements; and (3) electives as needed.

RECOMMENDED ELECTIVES: MTT 177, MTT 278, PMT 221, WELD 130, WMT 111L.

CAREER OPPORTUNITIES: Design Modeler, Automotive Stylist, Fabrication Craftsman.

See Cerritos College Graduation Requirements.

NURSING

The Cerritos College Nursing Program, approved by the Board of Registered Nursing and accredited by the National League for Nursing Accrediting Commission, Inc., offers an opportunity to prepare for a nursing career through mastery of a specific body of knowledge and skills. To qualify for the program, students must successfully complete prerequisite courses and other requirements as stated below. The generic program (Option A) consists of four semesters of sequenced courses. Students may receive Pass for prior nursing courses to facilitate advanced

placement. These students include Licensed Psychiatric Technicians, Licensed Vocational Nurses, students transferring from other accredited programs, and foreign-educated nurses.

For successful completion of the nursing program, the student is required to achieve a minimum 75% in all nursing and nursing-related courses. This is consistent with the Board of Registered Nursing's standard of competency for nursing practice. Completion of the program meets qualifications for the NCLEX-RN licensing exam.

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 NLN 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 Major Requirements 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 Program 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 100, MATH 80, and READ 54 or equivalent with grades of Pass 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 if grade of "D", "F" is earned to achieve a better grade. A&P 150, A&P 151, and MICR 200 are recommended to be completed within six (6) years of admission. Repeats for recency will be accepted.
4. 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 retest prior to admission.
5. A cumulative grade point average of 2.5 for all college work taken.
6. A valid U.S. Social Security number. The Board of Registered Nursing no longer accepts application to take the National Council Licensure Examination (NCLEX-RN) without a valid

Curriculum and Requirements for Majors and Certificates

Social Security number. Additionally, clinical placement sites require a valid Social Security number. All nursing applicants must have a valid United States Social Security number.

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: NRSRG 25, NRSRG 211, NRSRG 213A, NRSRG 251, and PSYC 251 or equivalent with grades of Pass or "C" or higher. Valid California LPT license.

Option C: Same as Option A.

Additional courses required for admission: NRSRG 26, NRSRG 215, NRSRG 251, and PSYC 251 or equivalent with grades of Pass 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, NRSRG 215.

Additional requirements: Completion of a medication calculation examination with a score of 80% or higher. Valid California LVN license. At least one (1) year of acute care experience in a skilled nursing or hospital based facility. Optional courses: NRSRG 26, NRSRG 251 (strongly recommended), PSYC 251. Completion of the college placement test process for advisement purposes.

Option E: Same as Option A.

Additional courses required for admission: HO 152, NRSRG 25 if entering prior to the middle of the second semester or NRSRG 26 if entering at or following the middle of the second semester, NRSRG 200, NRSRG 215, NRSRG 251, and PSYC 251 or equivalent with grades of Pass or "C" or higher. ENGL 100, MATH 80, and READ 54 or equivalent with grades of Pass 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 NRSRG 220 or above. Students applying under this option will be notified individually for additional requirements relative to their entry points in the curriculum when you meet with the program director. Refer to the information packet for required documentation needed prior to this meeting. Information packets are available in the Health Occupations Division office or online at www.cerritos.edu/ho.

Option F: NRSRG 26 and NRSRG 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 Pass or "C" or higher.

Option A, B, C, and E applicants must show successful completion of ENGL 100, MATH 80, and READ 54 or equivalents with grades of Pass 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 must be submitted no later than March 15.
2. The applicant must submit to the Health Occupations Division Office the following items prior to March 15:
 - a. A completed application signed by the applicant and a Cerritos College counselor.
 - b. Verification of high school graduation or GED completion.
 - c. Official College transcripts (unofficial Cerritos College transcripts will be accepted).
 - 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 NRSRG 220, or above, will be scheduled for a medication calculation examination. Information regarding this examination will be provided in writing.
4. Applicants who met the minimum admission requirements are assigned a number for admission by a randomized computer selection process.
5. Students placed in the top 100 spots will be required to pass a diagnostic assessment test (basic math, English, reading, and science) prior to admission to the program. Students who fail to achieve a passing score will be required to complete additional pre-nursing course work to become eligible for admission.
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 \$46 for California residents, and \$254 for non-residents of California or international students. A Student Activity Fee (\$10) and Student Health Services Fee (\$16) are assessed each semester. During the four core semesters, lab material fees total approximately \$175 textbooks approximately \$2300 and additional supplies and uniforms approximately \$350. Fees are subject to change. 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 \$350 to \$450. Information about costs of NLNAC-accredited nursing program is available from the National League for Nursing Accrediting Commission, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta Georgia 30326; telephone (404) 975- 5000.

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.

Upon successful completion of all nursing program requirements, the nursing graduate may receive and wear the nursing pin which is given at a pinning ceremony. The cost of the pin is the responsibility of the student.

CRIMINAL BACKGROUND CHECK

Clinical placements are a mandatory component of the curriculum and require clearance of a criminal background check and drug screen. 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 or drug screen, 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 \$150. In addition, the student may apply for an interim permit for \$50. 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 license 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, regency 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 NCLEX-RN, 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 requirements.

OPTION A –**ASSOCIATE IN ARTS DEGREE REQUIREMENTS****PREREQUISITES:**

A&P 150, A&P 151, ENGL 100, and MICR 200 or equivalents with grades of Pass or “C” or higher. Successful completion of ENGL 100, MATH 80, and READ 54 or equivalents with grades of Pass or “C” or higher or satisfactory completion of the college placement test process.

REQUIRED COURSES**UNITS****Semester 1**

NRSG 47	Nursing Skills Lab	1.0
NRSG 210	**Fundamentals of Nursing 1	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 47	Nursing Skills Lab	1.0
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 47	Nursing Skills Lab	1.0
NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

Semester 4

NRSG 47	Nursing Skills Lab	1.0
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 Pass or “C” or higher. ENGL 100, MATH 80, and READ 54 or equivalents with grades of Pass 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 Pass or “C” or higher. Valid California LPT license.

REQUIRED COURSES

UNITS

Semester 1

NRSG 47	Nursing Skills Lab	1.0
NRSG 212	**Medical-Surgical Nursing 1	5.0

Semester 2

NRSG 47	Nursing Skills Lab	1.0
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 47	Nursing Skills Lab	1.0
NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

Semester 4

NRSG 47	Nursing Skills Lab	1.0
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 Pass or “C” or higher. Successful completion of READ 54, MATH 80, and ENGL 100 or equivalent with grades of Pass 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 Pass 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

UNITS

Semester 1

NRSG 47	Nursing Skills Lab	1.0
NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

Semester 2

NRSG 47	Nursing Skills Lab	1.0
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 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 Pass 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

Semester 1

		UNITS
NRSG 47	Nursing Skills Lab	1.0
NRSG 230	**Psychosocial and Community Nursing	5.0
NRSG 232	**Medical-Surgical Nursing 4	5.0

Semester 2

NRSG 47	Nursing Skills Lab	1.0
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 E –

TRANSFER AND CHALLENGE

PREREQUISITES:

A&P 150, A&P 151, ENGL 100, and MICR 200 or equivalent with grades of Pass 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 Pass or “C” or higher. ENGL 100, MATH 80, and READ 54, or equivalent with grades of Pass 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 PASS

- A. Pass will be granted for related previous education completed in:
 1. Accredited Vocational or Practical Nursing courses
 2. Accredited Registered Nursing courses
 3. Accredited Psychiatric Technician courses
 4. Other related courses (e.g. Anatomy and Physiology, Nutrition)
- B. Official transcripts and/or copies of certificates of completion must be submitted for Pass to be granted.
- C. Pass 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)

- A. Pass 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 Pass is being requested.
- B. Pass shall be determined by successful completion of a comprehensive written examination and/or practical evaluation.

C. Objectives for both the written and/or practical examinations are made available to the student prior to evaluation.

D. Student must meet the requirements which govern Pass by examination as stated in the college catalog.

E. 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 Pass or “C” or higher.

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 Verification 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	Computer Keyboarding	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 Pass or "C" or higher, or earning a score on the Writing Proficiency Test sufficient for placement in ENGL 52.

MATHEMATICS PROFICIENCY REQUIREMENT

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 Pass or "C" or higher or for other options see your counselor.

READING PROFICIENCY REQUIREMENT

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 Pass 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 program. 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 may be required to obtain a valid CPR card for Basic Life Support Healthcare Provider, offered through the American Heart Association.

****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	2
PHAR 64	Pharmacy Operations III	2
PHAR 65	Pharmacy Operations IV	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 REQUIREMENTS	32/33

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Meet the requirements for a Certificate of Achievement in Pharmacy Technician. For an A.A. Degree, a student must also take electives and General Education to achieve a minimum of 60 units.

CAREER OPPORTUNITIES: Employment as a Pharmacy Technician in community or hospital pharmacy assisting registered pharmacists in performance of assigned duties.

See Cerritos College Graduation Requirements.

PHOTOGRAPHY

CAREER OPPORTUNITIES:

Commercial Advertising Photography
Gallery Director/Assistant*
Industrial Photography
Newspaper/Magazine Photography
Photo Lab Technician
Portrait Photography

* Bachelor's degree normally required.

MAJOR REQUIREMENTS (26 UNITS)

DEPARTMENT REQUIREMENTS (15 UNITS)

		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: 35mm 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.

PHYSICAL EDUCATION

CAREER OPPORTUNITIES:

Coach
Fitness Director YMCA and YWCA
Instructor in Private and Public Camps
Instructor at Rehabilitation Centers
Athletic Trainer
Trainer at Sports Medicine Clinics
Teacher (Elementary or Secondary)

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

In order to qualify for an A.A. Degree in Physical Education the following requirements must be met:

- 1) Completion of the A.A. Degree General Education and proficiency requirements;
- 2) Completion of a minimum of 60 degree applicable units;
- 3) Completion of at least 25 units of physical education coursework from the following:
 - a. Required Core Courses 16/20/22 Units
 - b. Required Activity Courses 6 Units
 - c. Required PE Elective Courses 3 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	Community 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)

(A&P 150& 151 or A&P 200 & A&P 201 recommended for transfer students.)

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 136	Indoor Cycling	1
PE 143	Personal Fitness Program	1
PE 145	Basic Training and Physical Conditioning	1
PE 147	Triathlon Basics	1
PE 149A	Beginning Jogging for Fitness	1
PE 149B	Intermediate Jogging for Fitness	2

(2) Fitness

PE 122	Adapted Strength Training	1
PE 127	Adapted Stretching & Relaxation	1
PE 130	Stretching 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, Beginning	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
DANC 105	Introduction to Dance Movement	3
DANC 109	Introduction to Dance Cultures of the World	2
DANC 108A	Dance, Modern, Beginning	2
DANC 108B	Dance, Modern, Intermediate	2
DANC 106A	Beginning Ballet	2
DANC 106B	Intermediate Ballet	2
DANC 125	Introduction to Ballroom Dance	2
DANC 110	Commercial Dance	2
DANC 121	Latin Social Dance	2

PE ELECTIVE COURSES (3 UNITS MINIMUM)

DANC 101	History of Dance	3
DANC 132	Dance and Digital Technology	3
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 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

EXERCISE SCIENCE: FITNESS SPECIALIST

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

1. Complete the requirements for the Certificate of Achievement in Exercise Science: Fitness Specialist. Certificate requirements appear below.
2. Complete the General Education requirements and electives to achieve a minimum of 60 units.
3. Complete at least two physical education activity courses from department approved list for a total of 3 units. These units can be double counted towards elective credits.

See Cerritos College Graduation Requirements.

Although many of these courses are transferable, this Certificate/A.A. Degree is non-transferable.

Please See Counselor or the respective department chairperson for additional alternatives.

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
TOTAL CERTIFICATE UNITS		26

*(A&P 150 & A&P 151 or A&P 200 & A&P 201 recommended for transfer students.)

Select one of the options and complete the required courses as listed below.

EXERCISE SCIENCE: ATHLETIC TRAINER

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

1. Complete the requirements for the Certificate of Achievement in Exercise Science: Athletic Training. Certificate requirements appear below.
2. Complete the General Education requirements and electives to achieve a minimum of 60 units.
3. Complete at least two physical education activity courses from department approved list for a total of 3 units. These units can be double counted towards elective credits.

See Cerritos College Graduation Requirements.

Although many of these courses are transferable, this Certificate/A.A. Degree is non-transferable.

Please See Counselor or the respective department chairperson for additional alternatives.

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	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
TOTAL CERTIFICATE UNITS		26

*(A&P 150 & A&P 151 or A&P 200 & A&P 201 recommended for transfer students.)

PHYSICAL THERAPIST ASSISTANT

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 of the American Physical Therapy Association.

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, Ventura, and San Bernardino counties usually during regular business hours.

ADMISSION REQUIREMENTS (PREREQUISITES):

- General Education Requirements
 - Completion of ENGL (English) 100 or equivalent with a grade of "C" or higher or satisfactory completion of the English Placement Process.
 - Completion of MATH 80 (Intermediate Algebra) or equivalent with a grade of "C" or higher or satisfactory completion of the Math Placement Process.
 - Meet Reading proficiency requirement for AA Degree — Plan A as described in the Cerritos College Catalog.
- A&P 150 — Human Anatomy **AND** A&P 151 — Human Physiology or equivalent courses with grades of "C" or higher. Equivalent courses may include a combined course (A&P of at least 8 units) or a minimum of 4 units each course (8 units total). Each course must include a lab component.
- 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 course.

Courses in progress at the time of application must be verified by a work-in-progress statement showing a grade of "C" or higher. Those courses must then be completed with a grade of "C" or higher and verified by official transcript for admission to the program.

APPLICATION AND ACCEPTANCE PROCEDURES:

- Complete application to the program. This can be obtained in the Health Occupations Division Office, or online at www.cerritos.edu/pta. All applications and information must be submitted by April 15. Incomplete and/or late applications will not be considered.
- Submit one official transcript of all college work to the Health Occupations Division office with your application no later than April 15. Official transcripts may be sent directly to the Health Occupations Division, 11110 Alondra Boulevard, Norwalk, CA 90650.
- If you would like a counselor to review your transcript (optional), please make an appointment with the counseling department at (562) 860-2451, extension 2231. Many questions can be answered by e-mail via the online counseling link, www.cerritos.edu/counseling.
- All work experience as a physical therapist aide must be verified by a letter from your employer stating you are/were a paid employee, giving your job title, and dates of employment. Work experience in related medical fields must also be verified in the same way. To receive credit for volunteer work, documentation must show at least six months of volunteer service. Students will only receive credit in one category of work experience (P.T. Aide or related medical field or volunteer).
- Application packets will be evaluated after April 15. Documents to be reviewed include the application, official transcripts, work-in progress reports, and work verification. Clearances are verified and/or points are assigned using the following considerations:
 - Admission Requirements (Prerequisites)
 - GPA in prerequisite courses
 - Work/volunteer experience in the field or work experience in related medical fields
 - Additional course work in medical and science classes
 - Overall grade point average
- Notification of acceptance or non-acceptance will be mailed after June 1.
- If admission requirements are in progress during the spring session, a work-in-progress report must be submitted to the Health Occupations Division by April 15.

AFTER ACCEPTANCE AND PRIOR TO ENROLLMENT:

- CPR for Healthcare Provider - You must present a valid CPR card for Healthcare Provider offered through the American Heart Association prior to the beginning of the program. Card must be valid throughout the duration of the program.
- Health Clearance - Applicants must present evidence of physical fitness and ability to perform tasks required of a physical therapist assistant. Physical exam, lab, x-rays, and immunization records must be cleared and verified after acceptance into the program.
- Criminal Background Check - Clinical placements are a mandatory component of the curriculum and will 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.
- A drug screen may be required depending on the internship site (determined during the clinical placement process).

5. If admitted to the program, failure to present the required documents described above by the deadline may result in reversal of acceptance or dismissal from the program.

EXPENSES

Enrollment fees, lab fees, uniforms, physical exam/immunizations, background check, books, and supplies will cost approximately \$3,000. Students are responsible for their own living accommodations, uniform laundry, and transportation to selected hospitals and clinics. Upon successful completion of all program requirements, the student will be eligible to receive and wear the Physical Therapist Assistant pin which is given at a graduation ceremony. The cost of the pin is the responsibility of the student.

ATTENDANCE AND SCHOLARSHIP

All students are expected to comply with 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 all courses. Uniforms are required in all hospital lab classes (PTA 126, PTA 236, and PTA 246).

LICENSURE

Successful completion of the Physical Therapist Assistant Program and Associate in Arts Degree qualifies the graduate to take the National Examination for Physical Therapist Assistants and the California Laws Test for Physical Therapist Assistant licensure. The California Physical Therapy Board requires all licensure applicants to provide a valid U.S. Social Security Number. Additional information regarding licensure requirements, fees, etc. can be found on their website: <http://www.pthe.ca.gov>.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

The following requirements must be completed to qualify for the A.A. Degree:

A&P 150	Introduction to Human Anatomy	4
A&P 151	Introduction to Human Physiology	4
ENGL 100	Freshman Composition	4
MATH 80	Intermediate Algebra	4
MA 161	Medical Terminology	3
PSYC 101	General Introductory Psychology	3
SPCH 100	Fundamentals of Oral Communication	3
U.S. History or American Government		3
Humanities or Fine Arts		3

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

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
*PTA 129	Physical Therapy Aspects of Aging and Integumentary Management	1.5

Second Semester

PTA 240	Activities of Daily Living	2
PTA 245	Advanced Modalities	3
PTA 246	Clinical Affiliation	4

*Class may be offered in summer session between first and second year.
See Cerritos College Graduation Requirements.

PLASTICS/COMPOSITES MANUFACTURING TECHNOLOGY (PMT)

CAREER OPPORTUNITIES:

Injection
Compression and Extrusion Molding
Mold Laminating
Plastic Mold Design and Fabrication
Testing Equipment Set up, Maintenance, and Tooling

CERTIFICATE OF ACHIEVEMENT MAJOR REQUIREMENTS

CORE		UNITS
BCOT 147	Business Communications	3
or ENGL 100	Freshman Composition	(4)
BCOT 148	Effective Business Presentations	3
or SPCH 100	Fundamentals of Oral Communication	(3)
PMT 100	Plastics Technology	2.5
MFGT 65	Applied Math for Manufacturing	3

COMPOSITES MANUFACTURING OPTION

ENGT 116	Blueprint Reading for Machine Trade	2
PMT 61	Fiberglass Technology	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 67	Fiberglass Production	2.5
or PMT 51	Composites Fabrication	(2.5)
PMT 68	Plastics Materials and Processes	2.5
PMT 70	Composites Technology	2.5
		—
Total Units (including CORE)		24.0 (25.0)

COMPOSITE INSPECTION OPTION

PMT 63L	Specialty Plastics Lab	.5
PMT 67	Fiberglass Production	2.5
or PMT 51	Composites Fabrication	(2.5)
PMT 68	Plastic Materials and Processes	2.5
PMT 70	Composites Technology	2.5
MFGT 54	Ultrasonic Level I Testing	1.5
		—
Total Units (including CORE)		21.0 (22.0)

PLASTIC/COMPOSITE TOOL DESIGN OPTION

ENGT 116	Blueprint Reading for Machine Trades	2
or MTT 54	CNC Blueprint Reading	(2.5)
or WELD 50	Blueprint Reading for the Welding Trades	(3.0)
ENGT 138	AutoCAD	4

Curriculum and Requirements for Majors and Certificates

ENGT 258	Design and Production Technology with AutoCAD	4
or ENGT 259	SolidWorks	(4)
or ENGT 265	CATIA I	(4)
PMT 72	Tooling for Plastics	2.5
		—
Total Units (including CORE)		24.0 (25.0-26.0)

PLASTICS MANUFACTURING OPTION

PMT 4	Plastics Fabrication	2.5
or PMT 64	Plastics Production	(2.5)
PMT 59	Injection Molding I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 64	Plastics Production	2.5
PMT 66	Hydraulics and Pneumatics	3
PMT 68	Plastics Materials and Processes	2.5
PMT 71	Plastics Manufacturing	2.5
		—
Total Units (including CORE)		27.5 (28.5)

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete 60 units to include: (1) the above requirements for a specific Certificate of Achievement, (2) the Associate in Arts Degree General Education requirements, and (3) electives as needed.

RECOMMENDED ELECTIVES: PMT 1, PMT 2, PMT 3, PMT 5, PMT 40, PMT 43, PMT 44, PMT 50, PMT 55, PMT 57, PMT 58, PMT 60, PMT 62, PMT 75, and PMT 221.

REAL ESTATE

CAREER OPPORTUNITIES:

Realtor
Teacher
Real Estate Financial Advisor
Loan Officer

Class Completion Certificate	3 UNITS
Real Estate Department Award	12/13 UNITS
Real Estate Certificate of Achievement	18/19 UNITS
California Real Estate Certificate	24/26 UNITS
A.A. Degree in 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 - 18/19 UNITS

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
RE 101 Real Estate Principles	3
RE 173/174 Real Estate Occupational Work Experience/ Career Internship	3/4

Choose 12 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	3
		—

TOTAL REQUIREMENTS	18/19

CALIFORNIA REAL ESTATE CERTIFICATE - 24/26 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	3
RE 160 Real Estate Economics	3

Electives: Select a minimum of 6 units from the following courses:

LAW 111	Business Law	3
ACCT 100	Introduction to Accounting	3
ACCT 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	Real Estate Occupational Work Experience/ Career Internship	3/4
		—

TOTAL REQUIREMENTS	24/26

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Meet the requirements for the California Real Estate Certificate and complete six units from the following: BA 121, BCOT 147, FIN 125, RE 51, RE 53, RE 140, or RE 151 and complete General Education requirements and electives to achieve a minimum of 60 degree applicable units.

NOTE: Although many of these courses are transferable, this Certificate/A.A. Degree is nontransferable.

Please see Business Counselors or the respective department chairperson for additional alternatives.

REAL ESTATE LICENSE REQUIREMENTS

1. Salesperson's License:

Effective October 1, 2007, Assembly Bill (AB) 2429 will change the qualifying educational requirements 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 required courses, will be eligible for an 18 month conditional license and must complete the 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 provisions 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
 Common Interest Developments
 Mortgage Loan Brokering and Lending

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, that 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 any 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 3 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

Computer Applications in Real Estate — Mortgage Loan Brokering and Lending
 Common Interest Development

*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 full-time as a real estate salesperson;
2. Bachelor's 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.

Real Estate Scholarships are available:

Please see a Real Estate department chairperson or a Business Counselor for more information.

SOCIOLOGY

CAREER OPPORTUNITIES:

Management
 Public Relations
 Non-Profit Organizations
 Professor/Teacher
 Social Services
 Community Development
 Public Administration
 Marketing
 Program Support/Management

See Plan B General Education Requirements.

ASSOCIATE IN ARTS DEGREE FOR TRANSFER (AA-T) REQUIRED CORE

SOC 101 Introductory Sociology Principles	UNITS 3

List A (6 units – Choose any two courses)

SOC 201 Social Problems	3
SOC 205 Introduction to Social Research Methods	3
PSYC 210 Elementary Statistics	4
or MATH 112 Elementary Statistics	(4)

List B (6 units – Choose a minimum of two courses)

Any List A course not used above

SOC 110 Marriage and the Family	3
SOC 202 Gender and Society	3
SOC 210 American Minority Relations	3

List C (3 units – Choose one course)

Any List A or B course not used above

SOC 120 Introduction to Human Sexuality	3
SOC 215 Sociology of Cultural Diversity: Challenge and Change	3
SOC 220 Introduction to Human Services	3
SOC 225 Contemporary Social Issues	3
SOC 230 Juvenile Delinquency	3
SOC 250 Sociology of Aging	3
ANTH 100 Cultural Anthropology	3
PSYC 101 General Introductory Psychology	3

ASSOCIATE IN ARTS IN SOCIOLOGY FOR TRANSFER REQUIREMENTS:

Complete a minimum of 60 units to include (1) the above courses and units, (2) Associate in Arts Plan B or Plan C general education requirements, and (3) electives as needed. This degree will not require any local graduation requirements.

SPEECH**CAREER OPPORTUNITIES:**

Public Relations
Sales
Teaching
Law
Politics
Administration
Communications
Consulting
Broadcasting

COMMUNICATION STUDIES**ASSOCIATE IN ARTS DEGREE FOR TRANSFER (AA-T)****REQUIRED CORE (3)**

	UNITS
SPCH 130 Fundamentals of Speaking	3

List A (6 units – Choose any two courses)

SPCH 120 Fundamentals of Interpersonal Communication	3
SPCH 132 Fundamentals of Small Group Communication	3
SPCH 235 Fundamentals of Argumentation and Persuasion	3

List B (6 units – Choose a minimum of two courses)**Any List A course not used above**

SPCH 100 Fundamentals of Oral Communication	3
SPCH 110 Intercultural Communication	3
SPCH 140 Oral Interpretation of Literature	3
SPCH 150 Organizational Communication	3
SPCH 220 Voice and Articulation	3
SPCH 236 Forensics for One Tournament	1
SPCH 237 Forensics for Two Tournaments	1
SPCH 238 Forensics for Three Tournaments	1
SPCH 239 Forensic Workshop	2
SPCH 240 Oral Interpretation: Reader's Theater	3

List C (3 units – Choose one course)**Any List A or B course not used above**

SPCH 145 Storytelling	3
SPCH 200 Contemporary Communication Topics	3
SLP 102 Language Development in Children	3
ANTH 100 Cultural Anthropology	3
ENGL 102 Freshman Composition and Literature	3
JOUR 100 Mass Communication and Society	3
PSYC 101 General Introductory Psychology	3
SOC 101 Introductory Sociology Principles	3

ASSOCIATE IN ARTS IN COMMUNICATION STUDIES FOR TRANSFER REQUIREMENTS:

Students must complete a minimum of 18 units from the courses listed below and all Associate in Arts Transfer Degree Plan B or Plan C

general education requirements, plus any additional units, for a total of 60 units. Double counting courses in GE and the major is permissible. Students are not required to complete any additional local requirements. All 60 units are CSU transferable.

Plan B: To obtain an A.A. Degree using Plan B, complete the department requirements. In addition, you must complete all of the requirements in Plan B (CSU General Education Requirements) in the Cerritos College Catalog.

Plan C: To obtain an A.A. Degree using Plan C, complete the department requirements. In addition, you must complete all of the requirements in Plan C (Intersegmental General Education Transfer Curriculum-IGETC-for transfer to UC and CSU) in the Cerritos College Catalog.

SPEECH COMMUNICATION**CERTIFICATE OF COMPLETION****DIVISION/DEPARTMENT REQUIREMENTS UNITS****Choose 12 units from any of the following courses**

SPCH 100 Fundamentals of Oral Communication	3
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 140 Oral Interpretation of Literature	3
SPCH 145 Storytelling	3
SPCH 150 Organizational Communication	3
SPCH 200 Contemporary Communication Topics	3
SPCH 235 Fundamentals of Argumentation and Persuasion	3
*SPCH 236 Forensics for One Tournament	1
*SPCH 237 Forensics for Two Tournaments	1
*SPCH 238 Forensics for Three Tournaments	1
*SPCH 239 Forensics Workshop	2
SPCH 271 Voice and Articulation	3

TOTAL CERTIFICATE OF COMPLETION REQUIREMENTS	12

*Up to 3 forensics units may be used toward the speech certificate.

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

Graduates will be eligible to apply for licensure with the California Speech-Language Pathology and Audiology Board. Employment opportunities exist in health care and educational settings where the Speech-Language Pathologist Assistant must be supervised by a licensed Speech-Language Pathologist.

		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 105	Speech and Language Development in Children	3
		—
		14
First Year/Second Semester		
CD 139	Observation, Assessment, and Positive Guidance of Childhood Behavior	3
SLP 110	Normal Communication, Disorders, and Differences	4
SLP 120	Phonetics Lab	.5
SLP 125	Childhood Disorders and Treatment	5
SLP 220	Voice and Articulation	3
		—
		15.5
Second Year/First Semester		
CDSE 50	Survey of Special Education	3
SL 101	Beginning American Sign Language	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
SLP 245	Adult Field Experience	2
		—
		7.0
		—
TOTAL A.A. DEGREE REQUIREMENTS		49.0

Recommended Elective: A&P 120 — Introduction to Human Anatomy and Physiology

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the requirements for General Education under Plan A, B, or C.

See Cerritos College Graduation Requirements.

THEATRE ARTS

CAREER OPPORTUNITIES:

Actor/Actress	Production Assistant
Boom Microphone Operator	Prop Master/Prop Assistant
Camera Operator/Assistant	Operator Screenwriter/Playwright*
Cinematographer*	Set Designer
Costumer	Sound Engineer/Mixer
Director/Assistant Director*	Stage Manager/Technician
Film Editor*	Storyboard Artist*
Film Exhibition	Teacher/Professor*
Gaffer/Grip	Theatre Manager
Hair/Makeup Artist	Videographer
Light Technician*	

*Bachelor's degree normally required.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

MAJOR REQUIREMENTS

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:

MUS 146	Recording Techniques	2
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	Touring Theatre Production for Leading Roles	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

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

A minimum of 60 units must be completed to include: 1) one of the options above, 2) A.A. Degree General Education requirements, and 3) electives as needed.

WELDING

CAREER OPPORTUNITIES:

Welder
Welding Inspector
Welding Technician
Pipe Fitter
Sheet Metal Mechanic
Maintenance Mechanic

CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

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	5
TOTAL UNITS	10

ARC WELDING OPTION

	UNITS
WELD 200 Intermediate Arc Welding	4
WELD 210L Arc Welding Applications	2
WELD 220 Certification and Licensing for Welders	2
TOTAL UNITS	18

GAS TUNGSTEN ARC WELDING OPTION

	UNITS
WELD 130 Gas Tungsten Arc Welding Fundamentals	5
WELD 240 Advanced Gas Tungsten Arc Welding Lab	2
WELD 250L Gas Tungsten Arc Welding Applications	2
TOTAL UNITS	19

PIPE WELDING OPTION

	UNITS
WELD 52 Pipe Welding Fundamentals	4
WELD 53 Pipe Layout	2
WELD 54L Advanced Pipe Welding	2
WELD 200 Intermediate Arc Welding	4
WELD 210L Arc Welding Applications	2
TOTAL UNITS	24

WELDING FABRICATION AND LAYOUT OPTION

	UNITS
WELD 170 Structural Fabrication	2
WELD 200 Intermediate Arc Welding	4
WELD 270 Structural Layout	3
TOTAL UNITS	19

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 60, WELD 100.

See Cerritos College Graduation Requirements.

WELDING FABRICATION AND LAYOUT

CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

REQUIRED COURSES	UNITS
WELD 39 Welding Shop Math	2
WELD 50 Blue Print Reading for the Welding Trades	3
WELD 53 Pipe Layout	2
WELD 120 Beginning Arc Welding	5
WELD 170 Structural Fabrication	2
WELD 200 Intermediate Arc Welding	4
WELD 270 Structural Layout	3

TOTAL CERTIFICATE REQUIREMENTS: 21

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 100.

WOMEN'S STUDIES

CAREER OPPORTUNITIES:

Professor
Writer

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

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
ENGL 236	Studies in Women's Literature (Women's Studies)	3
PHIL 103	Philosophical Reasoning: Critical Thinking and Argumentative Writing (Women's Studies)	3
WS 102	Women and Religion (Women's Studies)	3
WS 205	The Anthropology of 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

Curriculum and Requirements for Majors and Certificates

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 A.A. Degree General Education requirements for a total of at least 60 units.

WOODWORKING MANUFACTURING TECHNOLOGIES

CAREER OPPORTUNITIES:

Woodworking
Construction
Designer
Cabinet and Furniture
Aircraft

CERTIFICATE OF ACHIEVEMENT MAJOR REQUIREMENTS

WMT BASIC CORE COURSE	UNITS
WMT 101	Introduction to Woodworking
WMT 102	Introduction to Solid Wood Caseworks
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
WMT 181	Introduction to Computer Operations for Cabinetmaking and Design
WMT 201	Woodworking with Hand Tools
TOTAL CERTIFICATE UNITS	38

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete 60 units to include (1) the above Certificate of Achievement requirements, (2) BA 153, (3) the Associate in Art Degree requirements, and (4) electives as needed.

RECOMMENDED ELECTIVES: WMT 117, WMT 120, WMT 123, WMT 132, WMT 134, WMT 144, WMT 148, WMT 171, WMT 185, WMT 202, WMT 211, WMT 212, WMT 235, WMT 237, WMT 243, WMT 248, WMT 249L, WMT 251, WMT 253, WMT 268, WMT 281.

CABINETMAKING

CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

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	Production Cabinetmaking A,B, or C

Choose from the following for a minimum of six (6) units:

WMT 80	Running a Woodworking Business	3
WMT 102	Introduction to Solid Wood Caseworks	4
WMT 144	Jigs and Fixtures	2
WMT 148	Furniture Making and Manufacturing	4
WMT 154	Introduction to Cabinet Installation	3
WMT 157	Passage Door	4
WMT 159	Solid Surface Fabrication	4
WMT 185	CNC Woodworking	4
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.

FURNITURE MAKING

CERTIFICATE OF ACHIEVEMENT

WMT BASIC CORE COURSE	UNITS
WMT 101	Introduction to Woodworking
WMT 102	Introduction to Solid Wood Caseworks
WMT 103	Introduction to Tables
WMT 107	Wood Finishing
WMT 130	Furniture Design
WMT 132	Chair Design & Construction
WMT 201	Woodworking with Hand Tools

And nine (9) units selected from the following courses:

WMT 108	Wood Carving for Furniture	2.5
WMT 115	Scrollsaw Fretwork and Intarsia	2
WMT 117	Woodworking Appreciation	1
WMT 118	Introduction to Wood Turning	2
WMT 137	Outdoor Furniture	2.5
WMT 144	Jigs and Fixtures	2
WMT 148	Furniture Making and Manufacturing	4
WMT 185	CNC Woodworking	4
WMT 202	Advanced Furniture Caseworks	4
WMT 203	Wood Veneering	4
WMT 204	Advanced Tables	4
WMT 211	The Workbench Class	4
WMT 218	Polychromatic and Closed Form Turning	2
WMT 233	Morris Chair	4
WMT 235	Windsor Chair	3
WMT 237	Traditional American Furniture	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 60 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.

TRANSFER PROGRAMS AND CAREER PATHWAYS



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
or MATH 112	Elementary Statistics	(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 and/or call the Criminal Justice Department at CSUF for particulars at (714) 278-3521. Community College transfer students are urged to attend a New Advisement Session prior to their first semester at the university as a Criminal Justice major. Failure to do so may delay graduation. The department's New Major Advisement Sessions are regularly and frequently scheduled. Call the CSUF Division Office for details at (657) 278-3521.

California State University-Long Beach

AJ 101	Introduction to Administration of Justice	3
PHIL 106	Introduction to Logic	3
POL 101	American Political Institutions	3
PSYC 101	General Introductory Psychology	3
SOC 101	Introductory Sociology Principles	3

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 website for impactation admission details. http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html

Transfer students may not 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 by the end of the prior summer term. For fall entrance or the prior fall term for spring entrance. As an upper division transfer student, you must also meet minimum CSU admission requirement to be considered for admission. Be aware that some admission requirements must be met earlier. The CSU GE (General Education) requirements in written communication, oral communication, critical thinking and mathematics/quantitative reasoning must be completed with a grade of "C" or higher by the end of the prior spring term for fall admission or by the end of the prior summer term for spring admission.

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 LAW 116	Criminal Law	(3)
ENGL 103	Critical and Argumentative Writing	3

There are two other core courses in police organization and administration and in judicial organization that currently are not offered at Cerritos College.

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

AJ 102	Introduction to Administration of Justice	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 A.A. degree in Administration of Justice.

CAREER OPPORTUNITIES: For those persons seeking employment in law enforcement at the A.A. 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

CAREER OPPORTUNITIES:

Food Science
Ranch Soil Management
Conservation
Fish and Game Warden

TRANSFER MAJOR REQUIREMENTS

LOWER DIVISION MAJOR REQUIREMENTS

Typically requires one year of general chemistry and one or two semesters of organic chemistry. May also require statistics or pre-calculus. In addition, animal or plant science majors typically require two semesters of general biology and math or business calculus. Major and Program Requirements may differ from the ones cited here. For exact course requirements, please consult the appropriate major and university at <http://www.assist.org>.

California State Universities and Colleges that offer Agriculture and related bachelor's degrees. Chico, Pomona, Fresno, San Luis Obispo, Stanislaus.

ANTHROPOLOGY

TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY

		UNITS
ANTH 100	Cultural Anthropology	3
ANTH 115	Physical Anthropology	3
ANTH 120	Introduction to Archaeology	3

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University, Fullerton

No additional courses required other than the common lower division major preparation courses.

California State University, Long Beach

No additional courses required other than the common lower division major preparation courses. CSULB does require an introduction to linguistics course which is not articulated at Cerritos College.

California State University – Los Angeles

ENGL 103	Critical and Argumentative Writing	3

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

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,.

California State Polytechnic University – Pomona

Anthropology and Anthropology Cultural Resource Management	
ANTH 170	Introduction to Language and Culture 3

COMMON LOWER DIVISION MAJOR PREPARATION FOR UNIVERSITY OF CALIFORNIA

ANTH 100	Cultural Anthropology	3

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

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 Archaeology	(3)
or ANTH 170	Introduction to Language and Culture	(3)

Three Additional UC transferable courses not already taken from those listed below or from other social science disciplines (Chicano/Latino Studies, Economics, Political Science, Psychology, Sociology):

ANTH 115	Physical Anthropology	3
ANTH 120	Introduction to Archeology	3
ANTH 170	Introduction to Language and Culture	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 182	Java Programming	3.5
and CIS 280	Object-Oriented Programming in C++	3
PSYC 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)
and MATH 170	Analytic Geometry and Calculus I	(4)

University of California – Los Angeles

UCLA offers a B.A. and a B.S. in Anthropology.

Bachelors of Arts

ANTH 115	Physical Anthropology	3
ANTH 120	Introduction to Archaeology	3

Bachelor of Science

ANTH 115	Physical Anthropology	3
ANTH 120	Introduction to Archaeology	3
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
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

University of California – Riverside

UC Riverside offers a Bachelor of Arts, a Bachelor's of Science, and a degree in Anthropology/Law and Society. Bachelors of Arts and Bachelors of Science

ANTH 115	Physical Anthropology	3
ANTH 120	Introduction to Archaeology	3
ENGL 106	Introduction to Language Study	3

Anthropology/Law and Society

ANTH 115	Physical Anthropology	3
ANTH 120	Introduction to Archaeology	3
ENGL 106	Introduction to Language Study	3
PHIL 106	Introduction to Logic	3

Recommended:

SOC 205	Introduction to Social Research Methods	3
or PSYC 220	Research Methods	(4)

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 two 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

Curriculum and Requirements for Transfer Programs and Career Pathways

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.

ARCHITECTURE

TRANSFER PROGRAM

COMMON LOWER DIVISION (CORE) REQUIREMENTS		UNITS
MATH 140	Trigonometry	3

ADDITIONAL LOWER DIVISION REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State Polytechnic University – Pomona

ARCH 122	Architectural Delineation	2
ARCH 212	Architectural Design Theory I	3
ARCH 222	Architectural Design Theory II	3
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)
or ENGL 103LC	Critical and Argumentative Writing	(3)
PHYS 101	General Physics	4
SPEECH 235	Fundamentals of Argumentation and Persuasion	3

NOTE: Impacted major. A minimum of 3.2 GPA is required. 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, i.e., by end of Fall 2012 for entrance in Fall 2013.

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

University of California – Berkeley

ARCH 110	Introduction to Architecture and Environmental Design	3
ARCH 112	History of Architecture	3
ART 110	Freehand Drawing	3
ART 121	Three-Dimension Design	3
MATH 170	Analytic Geometry and Calculus I	4
PHYS 201	Engineering Physics	4

Reading and Composition Requirement

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)

NOTE: Student must fulfill all of the required Lower-Division Major and General Education/Breath requirements to be considered for admission. A minimum 3.0 transferable grade-point average is required for admission consideration. All courses must be taken for a letter grade. Course work must be completed by the end of the spring term that precedes fall enrollment at Berkeley. UC personal statement is important in the selection process. The College of Environmental Design (CED) General Education/Breath requirements can be covered by full IGETC certification, beginning with students applying in Nov. 2011 and beyond.

University of Southern California

PHYS 101	General Physics	4
PHYS 102	General Physics	4

Woodbury University

ARCH 111	Architectural Drawing	3
ARCH 112	History of Architecture	3
ARCH 113	Building Codes	4
ARCH 121	Architectural Drafting & Design II	3
ARCH 122	Architectural Delineation	2
ARCH 123	Introduction to 2-D Computer Aided Drafting	4
ARCH 212	Architectural Design Theory I	3
ARCH 213	Introduction to 3-D Computer Aided Drafting	4
ARCH 222	Architectural Design Theory II	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	4
(Not necessary if Pre-Calculus or Calculus have been completed)		
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 Program: Architectural Studies at UCLA. Civil Engineering (Architecture Emphasis/ Building Science) Interior Design, Landscape Architecture, Urban – Regional Planning.

See Counseling for information.

ART AND DESIGN

TRANSFER PROGRAM

LOWER DIVISION REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS		UNITS

California State University – Dominguez Hills

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.
DESIGN OPTION

ART 110	Freehand Drawing	3
ART 130A	Fundamentals of Painting	3

STUDIO ART OPTION

ART 110	Freehand Drawing	3
ART 130A	Fundamentals of Painting	3
ART 150	Introduction to Ceramics	3
ART 162	Introduction to Sculpture	3

California State University – Fullerton
ART HISTORY CONCENTRATION

21 units are required for lower division preparation

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3

In addition to the above requirements, students must select 6 units from the following courses: ART 112, 116, 117, 136, 150, 162, 182A, 185, 191A, 213, 219, 231, PHOT 102, 200, 240.

NOTE: The Art History concentration emphasizes art history, theory and appreciation, and is particularly recommended for students who wish to pursue graduate studies in art history or museum studies.

GENERAL STUDIO ART CONCENTRATION:

27 units are required for lower division preparation

ART 101	Art History I: Prehistoric 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 130A	Fundamentals of Painting	3
or ART 130B	Fundamentals of Painting	(3)

In addition to the above requirements, students must select 6 units from the following courses: ART 116, 117, 182A, 219, PHOT 102, 200, 240; ART 136, 150, 162, 185.

Additional 9 units of electives are required in art, American studies, anthropology, history, literature, music, philosophy or theatre (Cerritos College does not offer comparable courses, see a Counselor for details).

NOTE: The General Studio Art concentration is a varied curriculum that provides a broad education in the visual arts.

TEACHING CONCENTRATION:

Single Subject Instruction. This qualifies students for teaching Art in grades K-12. 30 units are required for lower division preparation. Cerritos College does not offer a comparable course for Beginning Crafts. Therefore 27 lower division units will be required from Cerritos.

ART 101	Art History I: Prehistoric 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 130A	Fundamentals of Painting	3
or ART 130B	Fundamentals of Painting	(3)
ART 136	Painting for Art Majors	3
ART 150	Introduction to Ceramics	3

California State University – Long Beach
BACHELOR OF FINE ARTS IN ART WITH OPTION IN GRAPHIC DESIGN

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 107	Asian Art History	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)
ART 182A	Lettering and Typography	3

BACHELOR OF ARTS IN ART WITH OPTION IN STUDIO ART

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 107	Asian Art History	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)

Select one course from the following:

ART 186	Computer Graphics with Adobe Illustrator	3
or PHOT 100	Introduction to Photography	(3)
or ART 116	Beginning Printmaking	(3)
or ART 185	Rendering I	(3)
or ART 130A	Fundamentals of Painting	(3)
or ART 130B	Fundamentals of Painting	(3)
or ART 136	Painting for Art Majors	(3)

Select one course from the following:

ART 150	Introduction to Ceramics	3
or ART 151	Ceramics-Beginning Wheel Throwing	(3)
or ART 152	Ceramics-Beginning Hand Building	(3)
or ART 160	Life Sculpture	(3)
or ART 162	Introduction to Sculpture	(3)

Select one course from the following:

ART 186	Computer Graphics with Adobe Illustrator	3
or PHOT 100	Introduction to Photography	(3)
or ART 150	Introduction to Ceramics	(3)
or ART 151	Ceramics-Beginning Wheel Throwing	(3)
or ART 152	Ceramics-Beginning Hand Building	(3)
or ART 160	Life Sculpture	(3)
or ART 162	Introduction to Sculpture	(3)
or ART 116	Beginning Printmaking	(3)
or ART 185	Rendering I	(3)
or ART 130A	Fundamentals of Painting	(3)
or ART 130B	Fundamentals of Painting	(3)
or ART 136	Painting for Art Majors	(3)

BACHELOR OF ART WITH OPTION IN DRAWING AND PAINTING

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 107	Asian Art History	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)
ART 150	Introduction to Ceramics	3
or ART 151	Ceramics-Beginning Wheel Throwing	(3)
or ART 152	Ceramics-Beginning Hand Building	(3)
or ART 160	Life Sculpture	(3)
or ART 162	Introduction to Sculpture	(3)

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 and Industrial Design. See a counselor for additional information or visit: www.assist.org for more information.

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 by the end of the prior Spring semester for Fall entrance or the prior Summer term for Spring entrance.

The Bachelor of Fine Arts in Art program is impacted. [DUE TO ENROLLMENT DEMAND, EFFECTIVE IMMEDIATELY, CSULB WILL IMPLEMENT COMPETITIVE ADMISSIONS FOR ALL TRANSFER STUDENTS]

Please refer to the admissions website for details: <http://www.csulb.edu/depts/enrollments/admissions/transfer.html>. Please also refer to the admissions website for impactation admission details at: <http://www.csulb.edu/depts/enrollment/admissions/impactedmajor.html>.

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.

CSULA is an impacted campus. Admissions will be first granted to qualified first time freshmen and upper division transfer applicants from the local admission area who file their applications during the initial admission application filing period. Applicants outside of the local admission area will be admitted for available space based on their rank-order on the CSU Eligibility Index.

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
or ART 107	Asian Art History	(3)

The Art History major at UCI does not require completion of prerequisites for admissions as a transfer student. See a Counselor or visit assist.org for additional course requirements in foreign language, writing, literature, history and philosophy.

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 OPTION

Students work in the following media: painting, drawing, photography, sculpture, ceramics, new genres, and art theory. Preparation for the major includes: one course each in drawing, sculpture, painting, photography, ceramics, and new genres [performance art, video art, installation, and non-studio work], and from courses in art history, including one course covering each of the following art historical periods: 1850's-1920's, 1920's-1960's, 1960's-present.

Recommended courses:

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 100	Introduction to World Art	3
ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 107	Asian Art History	3

NOTE: Applications are considered on the basis of academic qualifications as well as departmental screening criteria. Applicants must have a minimum 3.0 GPA at the time of application. In addition to the UC general application and UC statement of purpose, students must submit a portfolio of creative work as well as departmental statement of interest by digital upload (jpeg format). Additional supplemental processing fees may apply. Please refer to the UCLA Department of Art website: www.arts.ucla.edu/prospective-students for specific guidelines and formatting details. For additional information regarding this major and UCLA's transfer selection process, visit: www.admissions.ucla.edu.

ART HISTORY OPTION

Two courses from the following:

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

Two courses from the following:

ART 104	African Art History	3
ART 106	Mexican Art	3
ART 107	Asian Art History	3

In addition to the foreign language requirement for IGETC, two semesters of one foreign language are also required. Students should complete as many preparation courses as possible prior to transfer. All courses must be taken for a letter grade.

NOTE: In addition to the UC general application and UC Personal Statement, students must submit a portfolio of creative work (8-10 images) as well as departmental statement of interest by digital upload for which an additional fee is required. Applicants must have a minimum 3.0 GPA at the time of application. Specific guidelines may be found at: www.arts.ucla.edu/prospective-students. For additional information regarding this major and UCLA's transfer selection process, visit www.humnet.ucla.edu/humnet/arhist/the_program/undergraduate.html and www.admissions.ucla.edu.

University of California – Riverside

ART 107	Asian Art History	3
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.

ART MAJOR

Completion of the course work listed below is not mandatory for admission into this major. Transfer students are advised to complete as much lower division course preparation as possible prior to transferring, to be prepared for upper division course work, and do more efficiently towards graduation after transfer. Applicants to this major are accepted for Fall quarter only. For transfer information, students are encouraged to visit www.uctransfer.universityofcalifornia.edu. For major information, please visit www.art.ucr.edu.

Complete one course from among the following:

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

Complete the following courses:

ART 110	Freehand Drawing	3
ART 130A	Fundamentals of Painting	3
ART 136	Painting for Art Majors	3

ART HISTORY

This major accepts applicants who meet the published UC admission criteria for transfer.

For more detailed information on this major please visit: www.arthistory.ucr.edu.

Select one course from the following:

ART 101	Art History I: Prehistory to Gothic	3
or ART 107	Asian Art History	(3)
or ART 101	Art History I: Prehistory to Gothic	(3)
and ART 102	Art History II: Renaissance to Rococo	3

Select one course from the following:

ART 101	Art History I: Prehistory to Gothic	3
and ART 102	Art History II: Renaissance to Rococo	3
or ART 107	Asian Art History	(3)
or ART 102	Art History II: Renaissance to Rococo	(3)
and ART 103	Art History III: Neoclassical to Present	3

ART HISTORY/ADMINISTRATIVE STUDIES

Select one course from the following:

ART 101	Art History I: Prehistory to Gothic	3
or ART 101	Art History II: Renaissance to Rococo	(3)
and ART 102	Art History II: Renaissance to Rococo	3
or ART 107	Asian Art History	(3)
ART 102	Art History II: Renaissance to Rococo	3
and ART 103	Art History III: Neoclassical to Present	3

Select one course from the following:

ART 102	Art History II: Renaissance to Rococo	3
and ART 103	Art History III: Neoclassical to Present	3

Complete all of the following:

BA 100	Fundamentals of Business	3
ACCT 101	Fundamentals of Accounting I	4
MATH 112	Elementary Statistics	4
CIS 101	Introduction to Computer Information Systems	3
or CIS 102	Introduction to Microcomputer Hardware and Applications Software	(3)

Courses that appear in more than one area may only count once.

ART HISTORY/ RELIGIOUS STUDIES

Select courses from one of three concentrations:

For the Western Concentration, complete the following courses:

ART 101	Art History I: Prehistory to Gothic	3
and ART 102	Art History II: Renaissance to Rococo	3
or ART 102	Art History II: Renaissance to Rococo	(3)
and ART 103	Art History III: Neoclassical to Present	3
ENGL 221A	Literature in the Bible: Hebrew Scriptures	3
and ENGL 221B	Literature in the Bible: Christian Scriptures	3

For the Asian Concentration, complete the following courses:

ART 107	Asian Art	3

For the Student-Designed Comparative Concentration, complete one course from the following:

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
or ART 107	Asian Art History	(3)
or ENGL 221A	Literature in the Bible: Hebrew Scriptures	(3)
or ENGL 221B	Literature in the Bible: Christian Scriptures	(3)

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete the following: (1) above transfer requirements, (2) the A.A. 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.

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
or PSYC 210 Elementary Statistics	(4)
MATH 116 Calculus for Managerial, Biological, and Social Sciences	4
MICR 200 Principles & Applications of Microbiology	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)

California State University – Dominguez Hills

BIOL 202* Molecular Biology/Genetics	4
MATH 112 Elementary Statistics	4
MATH 170** Analytic Geometry and Calculus I	4
or MATH 116 Calculus for Managerial, Biological, and Social Sciences	(4)

*Required for the Cellular & Molecular Biology option and the Ecology and Environmental Biology option.

**Required for B.S. degree only

NOTE: PHYS 201 & PHYS 202 & PHYS 203 may substitute for PHYS 101 & PHYS 102 for the B.S. Degree.

California State University – Fullerton**There are four concentrations within the Biological Science Major:**

“Ecology & Evolutionary 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 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)

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

BIOL 115 Marine Biology	3
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)
MICR 200 Principles & Applications 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

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
MICR 200 Principles & Applications of Microbiology	5

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

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.

NOTE: PHYS 201 & PHYS 202 may substitute for PHYS 101 & PHYS 102 for any of the Biology Options offered at CSULB.

California State University – Los Angeles

CHEM 205	Quantitative Analysis Chemistry	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.

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

BIOL 202	Molecular Biology/Genetics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
or MATH 112	Elementary Statistics	(4)
or PSYC 210	Elementary Statistics	(4)

University of California – Los Angeles

BIOL 202	Molecular Biology/Genetics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 203	Engineering Physics	4
PSYC 210	Elementary Statistics	4

University of California – Riverside

BOT 120	Introduction to Plant Science	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 203	Engineering Physics	4
ZOOL 120	Introduction to Animal Biology	4

The IGETC is not accepted for majors housed in the College of Natural and Agricultural Sciences. Transfer students are encouraged to follow the College of Natural and Agricultural Sciences breadth pattern as outlined on www.assist.org.

UCR offers a Biology B.A degree and a Biology B.S. degree. Students pursuing a B.A. degree in Biology will also need to complete the equivalent of 4th quarter proficiency (generally 3rd semester) in a language other than English, as part of the breadth requirements for this degree.

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

BIOL 200	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 (Biology - option in Botany)

BIOL 201	Principles of Biology	5
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
and PHYS 102	General Physics	4
or PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	4

California State Polytechnic University – Pomona

PLANT SCIENCE AND BIOLOGY:

Botany(Plant Science)

BOT 120	Introduction to Plant Science	4
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

(Biology: Botany)

BIOL 201	Principles of Biology	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)
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
or PSYC 210	Elementary Statistics	(4)
MATH 116	Calculus for Managerial, Biological and Social Science	4
MICR 200	Principles and Applications of Microbiology	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4

University of California – Irvine (Plant Biology B.S.)

BIOL 201	Principles of Biology	5
BIOL 202	Molecular Biology/Genetics	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
MATH 170	Analytical Geometry and Calculus I	4
and MATH 190	Analytical Geometry and Calculus II	4
or MATH 112	Elementary Statistics	(4)
or PSYC 210	Elementary Statistics	(4)
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

University of California – Riverside (Plant Biology B.A. or B.S.)

Four options: (1) Plant Cellular Molecular and Developmental Biology; (2) Plant Genetics, Breeding, and Biotechnology; (3) Ecology, Evolution, and Systematics; (4) Plant Pathology, Nematology, and Pest Management.

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

Students working towards the B.A. Degree are encouraged to complete the foreign language breadth requirement prior to transfer. This requirement is 3rd semester proficiency in one foreign language.

The IGETC is not accepted for majors housed in the College of Natural and Agricultural Sciences. Transfer students are encouraged to follow the College of Natural and Agricultural Sciences breadth Major Requirements as outlined on www.assist.org.

NOTE: UC Riverside also offers a **Plant Biology track** under Biological Sciences using the above major preparation requirements.

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.

The requirements listed for the major above are subject to change without notice. It is the student's responsibility to check for the most recent information with a Cerritos College counselor or by consulting ASSIST at www.assist.org.

NOTE: Courses listed may require prerequisite coursework.

BUSINESS ADMINISTRATION

TRANSFER PROGRAM

LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

UNITS

California State University - Dominguez Hills

ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
BA 155	Introduction to Global Logistics (only for Global Logistics & Supply Chain Management Concentration)	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
LAW 111	Business Law	3
or BA 113	Legal Environment of Business	(3)
MATH 112	Elementary Statistics	4
POL 210	International Relations (only for International Business Concentration)	3

A transfer level mathematics course from General Education is required. Math 112 is the recommended mathematics course.

All courses must be passed with a minimum grade of "C".

California State University - Fullerton

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
BA 113	Legal Environment of Business	3
BCOT 247	Managerial Business Communications	3
CIS 101	Introduction to Computer Information Systems	3
ECON 201M	Principles of Macroeconomics	3
ECON 202M	Principles of Microeconomics	3
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170	Analytical Geometry and Calculus I	(4)

ACCT 133 must be taken to receive full articulation for ACCT 101 and ACCT 102. ECON 202M, and math courses can be doubled counted for the major and the Cal State University General Education requirements. A grade of C or better for each course is required.

California State University - Los Angeles

ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4

Curriculum and Requirements for Transfer Programs and Career Pathways

CIS 101	Introduction to Computer Information Systems	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
LAW 111	Business Law	3
or BA 100	Legal Environment of Business	(3)
MATH 112	Elementary Statistics	4
ENGL 103	Critical and Argumentative Writing (Same as ENGL 103LC)	3

ENGL 103 or ENGL 103LC will meet a prerequisite for a graduation requirement at CSULA.

California State University - Long Beach

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 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
ECON 202M	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

All options in the Business Administration major are impacted. The use of supplemental admission criteria is authorized. For details go to: http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

Specialists in Accounting may take PHIL 102 to meet the ethics requirement.

International Business majors need four semesters of a foreign language. See a listing of accepted languages at www.assist.org.

California State Polytechnic University – Pomona

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)
or BCOT 117	Desktop Publishing	(1.5)
and CIS 151	Microsoft Excel for Information Systems/Information Technology	3.5
and CIS 155	Microsoft Access	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing (Same as ENGL 103LC)	(3)
LAW 111	Business Law	3
or BA 113	Legal Environment of Business	(3)
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
MATH 116	Calculus for Managerial, Biological and Social Sciences	4

[Subplans may have additional courses required. Please see www.assist.org for listings.]

University of Southern California

ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
ENGL 100	Freshman Composition	3
ENGL 101	Critical Thinking Through Literature	3
or 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)
MATH 116	Calculus for Managerial, Biological, and Social Sciences	4
or MATH 170	Analytical Geometry and Calculus I	(4)

University of California - Irvine

Minimum cumulative GPA of 3.0 is required. Completion of lower division prep courses below and highest grades overall will be given preference for admission. Admission will be competitive due to limited space availability.

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
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
MATH 170	Analytical Geometry and Calculus I	4
MATH 190	Analytical Geometry and Calculus II	4

University of California – Riverside

ACCT 100	Introduction to Accounting	3
ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
BA 100	Fundamentals of Business	3
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
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
MATH 112	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 or ECON 201M and ECON 202 or ECON 202M 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.

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*

A&P 120 Introduction to Human Anatomy and Physiology	4
or A&P 130 Human Anatomy & Physiology	(5)
or A&P 151 Introduction to Human Physiology	(4)
or A & P 201 Human Physiology	(5)
or BIOL 120 Introduction to Biological Science	(4)
or BIOL 200 Principles of Biology	(5)
and 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

BIOL 200 Principles of Biology	5
CHEM 205 Quantitative Analysis Chemistry	4
CIS 180 Programming in C/C++	3
MATH 240 Calculus and Differential Equation	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 IGETC is not accepted for majors housed in the College of Natural and Agricultural Sciences.

Transfer students are encouraged to follow the College of Natural and Agricultural Sciences breadth Major Requirements as outlined on www.assist.org.

*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 PROGRAMS

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
Two years of college Spanish is also required.		

California State University – Dominguez Hills

Requirements for Arts, Aesthetics, and Performance Concentration; Cultural, History, and Political Development Concentration; Education, Social and Community Development Concentration; and Language and Literature Concentration.

SPAN 245	Introduction to Chicano/Mexican American Culture	3

ADDITIONAL ELECTIVE COURSE(S)

LANGUAGE AND LITERATURE

SPAN 202	Intermediate Spanish	4

ADDITIONAL ELECTIVE COURSE(S)

ARTS, AESTHETICS, AND PERFORMANCE

MUSIC 129	Woodwind Ensemble	1.5
or MUSIC 130	Brass Ensemble	(1.5)
or MUSIC 131	Percussion Ensemble	(1.5)
or MUSIC 132	Guitar Ensemble	(2.5)

California State University – Los Angeles

OPTION I-GENERAL OPTION

SPAN 245	Introduction to Chicano/Mexican American Culture	3
ENGL 225	Mexican Literature in Translation	3

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

SPAN 202	Intermediate Spanish	4

University of California – Riverside

SPAN 245	Introduction to Mexican American Culture	3
SOC 215	Sociology of Cultural Diversity: Challenge and Change	3
or SOC 210	American Minority Relations	(3)

There are also similar and related majors and programs at California State University, Fullerton, and University of California, Berkeley.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Completion of 60 units to include (1) the above required courses, (2) the A.A. 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.

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
MATH 190	Analytic Geometry and Calculus II	4

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University - Dominguez Hills

CIS 230	Assembly Programming for Microcomputers	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

Physics articulation is approved as a sequence only (201+202+203).

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. CSUDH also offers a Computer Technology major with options in general, homeland security, and professional track.

California State University – Fullerton

Five tracks: Multimedia & Digital Game Technologies, Internet & Enterprise Computing Technologies, Software Engineering, Scientific Computing, and Customized. (must select one)

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).

BIOL 120	Introduction to Biological Sciences	4
CIS 214	Unix	3
CIS 292	Data Structures	3.5
CIS 281	Windows Programming with Visual C#.net	3

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: A "C" average (2.0) and a grade of "C"-(1.7) or better is required in all courses applied to the major.

Curriculum and Requirements for Transfer Programs and Career Pathways

California State University - Long Beach

CIS 182	JAVA Programming	(3,5)
CIS 230	Assembly Programming for Microcomputers	4
CIS 292	Data Structures	3.5
MATH 220	Analytical Geometry and Calculus III	4

Minimum of 12 units of approved science-electives to include a two-semester science sequence.

Take either

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
or PHYS 201	Engineering Physics	(4)
PHYS 202	Engineering Physics	(4)

Remaining units are to be chosen from the following:

BIOL 115	Marine Biology	3
or BIOL 120	Introduction to Biological Sciences	(4)
or 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)

A grade of "C" or better is required for all prerequisite courses in the major.

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.		
CIS 205	Programming in HTML for the World Wide Web	1.5
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)

A grade of "C" or better is required for all prerequisite courses in the major.

California State Polytechnic University – Pomona

BIOL 120	Introduction to Biological Science	4
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 220	Analytical Geometry and Calculus III	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

University Of California - Irvine

UCI offers a B.S. in Information and Computer Science, Computer Science, and Computer Science and Engineering Majors.

Information and Computer Science

CIS 182	Java Programming	3.5
CIS 280	Object-Oriented Programming in C++	3
CIS 292	Data Structures	3.5

In addition to the above Information and Computer Science requirements, the Computer Science major also requires

PHIL 106	Introduction to Logic	3

One of the following Science combinations:

PHYS 201	Engineering Physics	4
and PHYS 202	Engineering Physics	4
or PHYS 203	Engineering Physics	4
or CHEM 111	General Chemistry	(5)
CHEM 112	General Chemistry	5

Applicants to the Information and Computer Science and Computer Science major must satisfy the following requirements: 1) one year of calculus and 2) one year of Computer Science courses including at least one course involving the concepts of object-oriented Programming (UC transferable).

Additional coursework is strongly recommended.

In addition to the above information and Computer Science requirements, the Computer Science and Engineering major also requires:

MATH 220	Analytic Geometry and Calculus III	4
MATH 240	Calculus and Differential Equations	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

University of California - Los Angeles

UCLA offers a B.S. in Computer Science and Computer Science and Engineering majors

Common coursework for both majors:

CHEM 111	General Chemistry	5
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 Phil	(3)
or PSYC 103	Critical Thinking in Psychology	(3)
or SPCH 235	Fundamentals of Argumentation and Persuasion	(3)
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

Additional degree requirements for the major that may be met with the community college courses for Computer Science:

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

Additional degree requirements for the major that may be met with the community college courses for Computer Science and Engineering:

CIS 180	Programming in C/C++	3
or CIS 280	Object-Oriented Programming in C++	(3)
ENGR 215	Engineering Electric Circuits	3

Computer Science and Computer Science and Engineering are highly competitive. The most important selection criteria are completion of required preparatory courses. A minimum of UC-transferable cumulative GPA of 3.3 is required 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. IGETC is not recognized for this major.

ASSOCIATE IN ARTS DEGREE 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.

The requirements listed for the major above are subject to change.

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.

TRANSFER MAJOR REQUIREMENTS

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University Fullerton:

DANC 130	Choreography	3
DANC 131	Dance Notation	3
DANC 106B	Intermediate Ballet	2
DANC 108A	Dance, Modern Beginning	2
DANC 108B	Dance, Modern Intermediate	2

See counselor for additional unit requirements for this emphasis.

California State University Long Beach:

Dance Science

A&P 150	Introduction to Human Anatomy	4
or A&P 200	Human Anatomy	(5)
A&P 151	Introduction to Human Physiology	4
or A&P 201	Human Physiology	(5)
PSYC 101	General Introductory Psychology	3

California State University Los Angeles:

Core Requirements:

DANC 106A	Beginning Ballet	2
DANC 108A	Dance, Modern, Beginning	2
DANC 130	Choreography	2
and DANC 135	Dance Workshop	2
TH 110	Fundamentals of Acting	3.5
TH 145	Costume Production for Dance	1
TH 114	Voice for Acting	2

Dance Option:

Lower Division required courses:

DANC 108B	Dance, Modern, Intermediate	2

Electives in Dance (14 units):

DANC 106B	Intermediate Ballet	2
DANC 130	Choreography	2
and DANC 135	Dance Workshop	2
DANC 140	Beginning Jazz Dance	2
and DANC 141	Intermediate Jazz Dance	2
DANC 142	Beginning Tap Dance	2
DANC 143	Intermediate Tap Dance	2
TH 120	Theatre Stagecraft	3

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

University of California Riverside:

Dance majors must enroll in at least one movement practice course per quarter, and must pursue a concentration in two different dance genres of at least 6 units each. Up to 16 semester or 24 quarter units may be counted towards the major from:

DANC 106A	Beginning Ballet	2
DANC 106B	Intermediate Ballet	2
DANC 108A	Dance Modern Beginning	2
DANC 108B	Dance Modern Intermediate	2

University of California Irvine:

Dance (All emphases electives)

Core Requirements

DANC 101	History of Dance (lecture)	3
DANC 130	Choreography	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	Beginning Tap Dance	(2)
or DANC 143	Intermediate Tap Dance	(2)

BFA Choreography Emphasis and/or Performance Emphasis:

TH 110	Fundamentals of Acting	3.5

BFA 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 A.A. Degree General Education requirements for a total of at 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 HYGIENE TRANSFER PROGRAM

(The following curriculum does not lead to an Associate in Arts Degree. To earn an AA Degree, see Dental Hygiene—951 in the catalog for the major requirements.)

University of Southern California

Minimum entrance requirements:

BIOL 201

or BIOL 200

A&P 200

A&P 201

CHEM 111

CHEM 112

ENGL 100

ENGL 102

or ENGL 103

PSYC 101

SOC 101

SPCH 100

or SPCH 130

MICRO 200

Nutrition (Course needs to be approved by USC)

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
ACCT 101	Fundamentals of Accounting I	4
*ECON 201	Principles of Macroeconomics	3
or *ECON 201M	Principles of Macroeconomics	(3)
*ECON 202	Principles of Microeconomics	3
or *ECON 202M	Principles of Microeconomics	(3)
MATH 116	Calculus for Managerial, Biological & Social Sciences	4
or MATH 170	Analytic Geometry and Calculus I	(4)

Option in Mathematical Economics and Economic Theory

*ECON 201	Principles of Macroeconomics	3
or *ECON 201M	Principles of Macroeconomics	(3)
*ECON 202	Principles of Microeconomics	3
or *ECON 202M	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

*Articulation with ECON 201M and ECON 202M is effective Fall 2010. If taken before Fall 2011, ECON 201 or ECON 202 will still be accepted. Beginning Fall 2011, only ECON 201M and ECON 202M will be accepted.

BUSINESS ECONOMICS - B.A.

Same requirements as Economics.

California State University - Fullerton

Student must earn a grade of at least "C" in each course listed below.

CIS 101	Introduction to Computer Information Systems	3
**ECON 201	Principles of Macroeconomics	3
or **ECON 201M	Principles of Macroeconomics	(3)
**ECON 202	Principles of Microeconomics	3
or **ECON 202M	Principles of Microeconomics	(3)
ACCT 101	Fundamentals of Accounting I	4
and ACCT 133	Spreadsheet Accounting I	3
ACCT 102	Fundamentals of Accounting II	4
and ACCT 133	Spreadsheet Accounting I	3
or MATH 190	Analytic Geometry and Calculus II	(4)
MATH 116	Calculus for Managerial, Biological & Social Sciences	4
or MATH 170	Analytic Geometry and Calculus I	(4)

There is also a CSUF lower-division business writing course required which is not offered at Cerritos College.

**Articulation with ECON 201 or ECON 202 is valid if course is taken Summer 2011 or earlier. Beginning Fall 2011, only ECON 201M and ECON 202M will be accepted.

California State University - Los Angeles

ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	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 and Social Sciences	(4)

Option 2: Social and Behavioral Sciences

ACCT 101	Fundamentals of Accounting I	4
and ACCT 102	Fundamentals of Accounting II	4
MATH 116	Calculus for Managerial, Biological and Social 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.

California State Polytechnic University-Pomona

ACCT 101	Fundamentals of Accounting I	4
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)
ENGL 155	Technical Writing	3

Students who intend to pursue graduate education in Economics are also advised to complete:

MATH 170	Analytical Geometry and Calculus I	4
MATH 190	Analytical Geometry and Calculus II	4

University of California-Los Angeles

Economics, B.A. or Business Economics, B.A.

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
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
MATH 170	Analytic Geometry and Calculus I	4

MATH 190	Analytic Geometry and Calculus II	4
ENGL 101	Critical Thinking Through Literature	3
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)

For Business Economics add:

ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting I	4

University of California, Irvine

Economics, B.A., Business Economics, B.A. or Quantitative 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 calculus. All required courses must be completed with a "B" or better in each course.

CIS 182	JAVA Programming	3.5
and CIS 280	Object-Oriented Programming n C++	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
MATH 170	Analytic Geometry and Calculus I	4
and MATH 190	Analytic Geometry and Calculus II	4
and MATH 220	Analytic Geometry and Calculus III	4
and MATH 240	Calculus and Differential Equations	4

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
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	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.

The Business Economics B.A. Degree provides more specific preparation for careers in business administration or management or for graduate work in business.

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.

ACCT 101	Fundamentals of Accounting	4
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)

(NOTE: Cerritos' ACCT 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

NOTE: There are also majors in Economics/Administrative Studies and Economics/Law and Society.

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 units minimum and the A.A. 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.

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 engineering counselor for the specific requirements of the school and option you have selected in order to optimize preparation **for transfer or** www.assist.org for lower division major requirements for most California public universities.

ADDITIONAL REQUIREMENTS

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.

CIVIL ENGINEERING

BIOL 120	Introduction to Biological Science	4
or MICR 200	Principles and Applications of Microbiology	5
CIS 178	Programming in Fortran	3

ELECTRICAL ENGINEERING

CIS 178	Programming in Fortran	3
PHYS 203	Engineering Physics	4

MECHANICAL ENGINEERING

CIS 178	Programming in Fortran	3

California State University – Fullerton

Offers four options: Electrical, Civil, Computer and Mechanical.

CIVIL ENGINEERING

BIOL 120	Introduction to Biological Science	4
MATH 240	Calculus and Differential Equations	4
CHEM 110	Elementary Chemistry (in place of CHEM 111)	4

ELECTRICAL ENGINEERING

BIOL 120	Introduction to Biological Science	4
MATH 240	Calculus and Differential Equations	4
CHEM 110	Elementary Chemistry (in place of CHEM 111)	4
PHYS 203	Engineering Physics	4

MECHANICAL ENGINEERING

MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

California State University – Pomona

(CSUP) Engineering school departments: Aerospace, Chemical, Civil, Computer, Electrical, Industrial, Manufacturing, Mechanical.

CIVIL ENGINEERING

CIS 101	Intro to Computer Information Systems	3
or CIS 102	Intro to Microcomputer Hardware and App Software	(3)
CHEM 112	General Chemistry	5
ENGT 138	Design with AutoCad	4
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

ELECTRICAL ENGINEERING

CIS 180	Programming in C/C++	3
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

MECHANICAL ENGINEERING

CHEM 112	General Chemistry	5
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Macroeconomics	3
or ECON 202M	Principles of Macroeconomics	(3)
ENGT 131	Design Fundamentals Including AutoCad	3
or ENGT 153	Machine Design with AutoCad	(3)
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

University of California – Berkeley

(CAL) Offers Bachelor's Degree in the following: Bioengineering, Chemical, Civil, Electrical Computer Science, Environmental, Industrial Engineering & Operations Research, Material science, Mechanical, and Nuclear.

CIVIL ENGINEERING

CHEM 112	General Chemistry	5
ENGL 102	Freshman Composition and Literature	3
and ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	(3)
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

ELECTRICAL ENGINEERING & COMPUTER SCIENCE

ENGL 102	Freshman Composition and Literature	3
and ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	(3)
MATH 240	Calculus and Differential Equations	4

One natural science require for admission. Choose from list below

A&P 201	Human Physiology	5
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111*	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 203	Engineering Physics	4

*CHEM 111 is not a required course for this major but can be used to meet the natural science requirement for transfer as well as a common course for the AA degree requirements.

MECHANICAL ENGINEERING

ENGL 102	Freshman Composition and Literature	3
and ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	(3)
MATH 240	Calculus and Differential Equations	4

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.

CIVIL & MECHANICAL ENGINEERING

CHEM 112	General Chemistry	5
CIS 180	Programming in C/C++	3
or CIS 280	Object-Oriented Programming in C++	(3)
ENGL 100	Freshman Composition	4
and ENGL 102	Freshman Composition and Literature	(3)
or ENGL 103	Critical and Argumentative Writing	(3)
or PHIL 103	Philosophical Reasoning: Critical thinking in Phil.	(3)
or PSYCH 103	Critical Thinking in Psychology	(3)
or SPCH 235	Fundamentals of Argumentation and Persuasion	(3)
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

ELECTRICAL ENGINEERING

In addition to the above requirements for Civil and Mechanical Engineering, Electrical engineering major preparation includes:

CIS 292	Data Structures	3
ENGR 215	Engineering Electric Circuits	3

Please note: Engineering at UCLA is highly competitive. The most important selection criteria is major preparation. A minimum transfer GPA of 3.3 is required for consideration. All major courses must be taken for a letter grade. IGETC certification is not recognized by the school of engineering.

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: <http://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: <http://viterbi.usc.edu/admission/transfer/guides.htm>

ASSOCIATE IN ARTS DEGREE REQUIREMENTS:

Complete 60 units to include (1) the Engineering core, (2) ENGT 131, (3) CIS 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.

ENGLISH

CAREER OPPORTUNITIES:

Publications
Communications
Media, Entertainment
Creative Writing
Government
Business Management
Law
Theology
Psychology
Business Administration

TRANSFER MAJOR REQUIREMENTS

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University-Dominguez Hills

Select one of the recommended courses from the following:

ENGL 232	Readings in Poetry	3
or ENGL 233	Readings in the Novel	(3)
or ENGL 234	Readings in Short Fiction	(3)
or ENGL 235	Readings in the Drama	(3)

Option in English Education:

ENGL 100	Freshman Composition	4
ENGL 102	Freshman Composition and Literature	3
or ENGL 103	Critical and Argumentative Writing	(3)

California State University- Fullerton

Select two courses from the following:

ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3
ENGL 230A	Introduction to American Literature	3
ENGL 230B	Introduction to American Literature	3

California State University-Long Beach

The study of a foreign language is recommended for all options in the major.

Option in Literature: required lower-division courses.

ENGL 102	Freshman Composition and Literature	3
ENGL 230A	Introduction to American Literature	3
ENGL 230B	Introduction to American Literature	3
ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3

Option in English Education: required lower division.

ENGL 230A	Introduction to American Literature	3
or ENGL 230B	Introduction to American Literature	(3)
ENGL 245	World Mythology as Literature	3
ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	(3)
or ENGL 248A	Masterpieces of World Literature	(3)
TH 101	Introduction to the Theatre	3
SPCH 130	Fundamentals of Speaking	3

California State University-Los Angeles

ENGL 103	Critical and Argumentative Writing	3
ENGL 246A	Survey of English Literature	3
ENGL 246B	Survey of English Literature	3
ENGL 248A	Masterpieces of World Literature	3

Single Subject Teaching Option

SPCH 130	Fundamentals of Speaking	3

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

University of California – Berkeley

ENGL 246A	Survey of English Literature	3
ENGL 228	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 any two courses from the following:

ENGL 230A	Introduction to American Literature	3
or ENGL 230B	Introduction to American Literature	(3)
or ENGL 232	Readings in Poetry	(3)
or ENGL 233	Readings in the Novel	(3)
or ENGL 235	Readings in the Drama	(3)
or ENGL 246A	Survey of English Literature	(3)
or ENGL 246B	Survey of English Literature	(3)
or ENGL 248A	Masterpieces of World Literature	(3)
or ENGL 248B	Masterpieces of World Literature	(3)

In addition, students are required to complete one course from the categories of writing, literature, history, and philosophy. For more information, consult www.assist.org or a counselor.

University of California-Los Angeles

ENGL 101	Critical Thinking Through Literature	3
or ENGL 102	Freshman Composition and Literature	3
ENGL 246A	Survey of English Literature	3
and ENGL 246B	Survey of English Literature	3

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
or ENGL 248B	Masterpieces of World Literature	(3)

Recommended one course from the following:

HIST 102	Political and Social History of the United States: 1500s to 1876	3
or HIST 103	Political and Social History of the United States: 1877 to present	(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.

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.

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
PSYC 101	General Introductory Psychology
ANTH 100	Cultural Anthropology
CD 110	Child Development
CDIT 151	Infant and Toddler Development
and CDIT 152	Infant and Toddler Program
HO 152	Normal & Therapeutic Nutrition

Plus 9 units of CSULB advisor approved electives Consumer Affairs Option

ECON 202	Principles of Microeconomics	3
or *ECON 202M	Principles of Microeconomics	(3)
PSYC 101	General Introductory Psychology	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

Plus 9 units of CSULB advisor approved electives

*Articulation with ECON 201M and ECON 202M is effective Fall 2010. If taken before Fall 2011, ECON 201 or ECON 202 will still be accepted. Beginning Fall 2011, only ECON 201M and ECON 202M will be accepted.

Family and Consumer Sciences Education Option

SPCH 130	Fundamentals of Speaking	3
PSYC 101	General Introductory Psychology	3
SOC 101	Introductory Sociology Principles	3
or ANTH 100	Cultural Anthropology	(3)
HO 152	Normal & Therapeutic Nutrition	3
CA 101	Introduction to Food Service, Safety and Sanitation	1

Plus one of the following concentrations:

Child Development and Education Occupations (Lower division options) – 12 units are required from a selection of lower and upper division courses:

Fashion Design, Manufacturing and Merchandising concentration

12 units are required from a selection of lower and upper division courses:

Family Life Education Option

ANTH 100	Cultural Anthropology	3
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 Merchandising Option

CHEM 100	Introductory Chemistry	4
*ECON 201	Principles of Macroeconomics	3
or *ECON 201M	Principles of Macroeconomics	(3)
HIST 241	Western Civilization	3
or ART 101	Art History I: Prehistory to Gothic	(3)
SOC 101	Introductory Sociology Principles	3
or SOC 201	Social Problems	(3)
or ANTH 100	Cultural Anthropology	(3)
ART 186	Computer Graphics with Adobe Illustrator	3

Plus 9 units of CSULB advisor approved electives

*Articulation with ECON 201M and ECON 202M is effective Fall 2010. If taken before Fall 2011, ECON 201 or ECON 202 will still be accepted. Beginning Fall 2011, only ECON 201M and ECON 202M will be accepted.

Textiles and Clothing Option

CHEM 100	Introductory Chemistry	4
ECON 201	Principles of Macroeconomics	3
or *ECON 201M	Principles of Macroeconomics	(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 with Adobe Illustrator	3

*Articulation with ECON 201M and ECON 202M is effective Fall 2010. If taken before Fall 2011, ECON 201 or ECON 202 will still be accepted. Beginning Fall 2011, only ECON 201M and ECON 202M will be accepted.

BACHELOR OF SCIENCE IN DIETETICS AND FOOD ADMINISTRATION

Admission has been suspended to the Option in Food Science under the B.S. in Dietetics and Food Administration through Spring 2012.

Hospitality Foodservice and Hotel Management Option

ACCT 101	Fundamentals of Accounting I	4
CA 101	Introduction to Food Service, Safety & Sanitation	1
*ECON 201	Principles of Macroeconomics	3
or *ECON 201M	Principles of Macroeconomics	(3)
*ECON 202	Principles of Microeconomics	3
or *ECON 202M	Principles of Microeconomics	(3)
HO 152	Normal and Therapeutic Nutrition	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
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)

12 units are required from a selection of lower and upper division courses.

*Articulation with ECON 201M and ECON 202M is effective Fall 2010. If taken before Fall 2011, ECON 201 or ECON 202 will still be accepted. Beginning Fall 2011, only ECON 201M and ECON 202M will be accepted.

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
MICR 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)

*Students taking ECON 201 and ECON 202 in Summer 2010 or earlier will be accepted for the major at CSULB. Beginning Fall 2010, only ECON 201M and ECON 202M will be accepted for the major there.

See Cerritos College Graduation Requirements.

See State University General Education List.

FORESTRY

CAREER OPPORTUNITIES:

Timber Companies
Utility Companies
U.S. Forest Service
National Park Service
Bureau of Land Management
Environment Protection Agency
California Division of Forestry

TRANSFER MAJOR REQUIREMENTS

LOWER DIVISION MAJOR PREPARATION

Typically requires at least one semester of general biology, one semester of elementary chemistry, and one semester of either math or business calculus. Major and Program Requirements, may differ from the ones cited here. For exact course requirements, please consult the appropriate major and university at <http://www.assist.org>.

FRENCH

TRANSFER PROGRAM

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
FREN 202	Intermediate French	4

Students are advised to take 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

FREN 101	Elementary French	5
FREN 102	Elementary French	5
FREN 281	Beginning Conversational French	3

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
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 – Los Angeles

Two years of French and one French literature course is required.

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

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 UC Riverside placement examination policy.

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 A.A. 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
GEOG 102	Cultural Geography

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

GEOG 101L	Physical Geography Lab	1

The courses above fulfill requirements for the Geography BA, Earth and Environment Option. In addition, CSUDH offers a Geography BS, Earth and Environment Option. The requirements for this option can be found on the ASSIST Website at www.assist.org.

California State University – Fullerton

GEOG 105	World Regional Geography	3

California State University – Long Beach

GEOG 102	Cultural Geography	3
or GEOG 105	World Regional Geography	(3)

California State University – Los Angeles

GEOL 101	Physical Geology	4
GEOL 209	Natural Disasters	3
ENGL 103*	Critical and Argumentative Writing	3

Select from following options: Geographic Information Systems which also requires Math 140; General, or Urban Analysis.

* Students are advised to complete ENGL 103 as their CSUGE 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 101	Physical Geography	3
GEOG 101L	Physical Geography Lab	1
GEOG 102	Cultural Geography	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

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 units minimum and all A.A. 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 Plan A, B or C General Education Patterns.

GEOLOGY

TRANSFER PROGRAM

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

GEOL 101	Physical Geology	UNITS
		4

ADDITIONAL LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

CSUDH offers a B.A. and a B.S. in Geology – Earth and Environment Option

Bachelors of Arts

GEOL 102	Natural and Cultural Geography	3

Bachelors in Science

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5

Curriculum and Requirements for Transfer Programs and Career Pathways

GEOL 102	Natural and Cultural Geography	3
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

California State University – Fullerton (Geological Science)

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
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
or MATH 116	Calculus for Managerial, Biological and Social Sciences	(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

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
GEOL 101	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 courses 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 CSUGE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
GEOL 201	Earth History	4
MATH 170	Analytic Geometry and Calculus I	4
PHYS 101	General Physics	4
and PHYS 102	General Physics	4

Approved Diversity Course:

GEOL 101	Physical Geography	3
GEOL 101	Physical Geology	4
GEOL 201	Earth History	4

Environmental Geosciences option:

BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
GEOL 102	Natural and Cultural Geography	3
MATH 170	Analytic Geometry and Calculus I	4

Approved Diversity Course:

GEOL 101	Physical Geography	3
GEOL 201	Earth History	4

California State University Polytechnic – Pomona

Three emphases: Geology, Geophysics/Earth Exploration, and Environmental Resources.

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 101	General Physics	4
PHYS 102	General Physics	4
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
BIOL 120	Introduction to Biological Science	4
or BIOL 200	Principles of Biology	(5)
GEOL 201	Earth History	4

Additional Courses for emphasis:

Geophysics/Earth Exploration emphasis:

ESCI 104	Oceanography	3
CIS 178	Programming in Fortran	3
or CIS 180	Programming in C/C++	(3)
or CIS 182	JAVA Programming	(3.5)

COMMON LOWER DIVISION PREPARATION

FOR THE UNIVERSITY OF CALIFORNIA

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

University of California – Los Angeles

Geology:

BIOL 200	Principles of Biology	5
CIS 178	Programming in Fortran	3
or CIS 180	Programming in C/C++	(3)
MATH 220	Analytic Geometry and Calculus III	4
PHYS 203	Engineering Physics	4

Additional Courses:

Geology/Engineering Geology Option:

MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

Geology/Paleobiology:

BIOL 201	Principles of Biology	5
BIOL 202	Molecular Biology/Genetics	4

University of California – Riverside

Requirements for general Geology, Geobiology and Geophysics, Global Climate Change.

Options:

BIOL 201	Principles of Biology	5
GEOG 101	Physical Geography	3
GEOL 201	Earth History	4
GEOG 101L	Physical Geography Laboratory	1
PHYS 203	Engineering Physics	4

Additional Courses for options:

Geobiology 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

Geophysics option:

MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

Global Climate Change 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
ESCI 104	Oceanography	3
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

UNITS

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 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 below 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 UC Riverside 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 A.A. 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

History/Social Science Education Option:

HIST 101	American History and Constitution	3
or 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
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
GEOG 102	Natural and Cultural Geography	3
POL 210	International Relations	3
POL 101	American Political Institutions	3

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)
or HIST 103	Political and Social History of the United States: 1877 to Present	(3)
and HIST 101	American History and Constitution	3
HIST 245	World Civilization from Antiquity to 1500	3
HIST 246	World Civilization from 1500 to Present	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
or HIST 241	Western Civilization	(3)
and HIST 242	Western Civilization	3

History majors are urged to develop competence in at least one foreign language.

See a counselor for Teacher Preparation Option.

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 245	World Civilization from Antiquity to 1500	(3)
and HIST 246	World Civilization from 1500 to Present	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	Contemporary 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 210, 241, 242, 245, 246, 260 & 265.

One Philosophy course selected from Philosophy 100, 102 or 201.

One writing course (ENGL 100, 100LC, ENGL 101, 102, 103, PHIL 103 or 103LC, PSYC 103, SPCH 235).

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 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
or HIST 210	History of the United States in the Post World War II Era	(3)
HIST 120	History of California	3
HIST 204	Women in American History	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 units minimum and all A.A. 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 TECHNOLOGY**TRANSFER MAJOR REQUIREMENTS****COMMON LOWER DIVISION PREPARATION****UNITS****California State University-Los Angeles**

ENGL 103	Critical and Argumentative Writing	3
MATH 150	Precalculus Math	4
PHYS 100	Elementary Physics	4
or CHEM 100	Introductory Chemistry	(4)

The Industrial Technology program has two tracks: Industry Track and Technology Education Track.

The Industrial Technology program prepares graduates for careers in industry and education. The Industrial Career Track emphasizes preparation for technical leadership responsibilities within a broad variety of industries including Aerospace, Communication, Manufacturing, Transportation and Utility Services. The areas of course concentration are Computer Integrated Design, Internetworking, Graphic Communications, Manufacturing Processes and Automation and Power/Energy/Transportation. Instruction includes laboratory experiences with a project design centered approach. Graduates of programs in Industrial Technology are called “Technologists” to distinguish them from graduates of programs in Engineering. Technologists apply Management Theory and practice with technical skills to solve problems.

Students interested in the Technology Education Track to pursue a single-subject credential should consult a counselor for further information.

The Foundation Program

A maximum of 23 semester units (35 quarter units) of lower division CSU transferable community college work may be applied for students who have completed a Technology-Oriented program.

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**

MATH 150	Pre-Calculus Mathematics	4
MATH 170	Analytic Geometry and Calculus I	4
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)
ENGT 237	Graphical Statics and Strength of Materials	3
LAW 111	Business Law	3
MATH 112	Elementary Statistics	4

**California State University – Northridge
(Construction Management Technology)**

ACCT 101	Fundamentals of Accounting	4
CIS 101	Introduction to CIS	3
ECON 202	Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
GEOL 101	Physical Geology	4
or BIOL 201	Principles of Biology	(5)
LAW 111	Business Law	3
MATH 190	Analytic Geometry and Calculus II	4

**California State Polytechnic University – Pomona
(Construction Management Technology)**

ARCH 121	Architectural Drafting and Design II	3
CHEM 111	General Chemistry	5
CIS 180	Programming in C/C++	3
or CIS 178	Programming in FORTRAN	(3)
ENGT 131	Design Fundamentals Including AutoCAD	4
or ENGT 138	AutoCAD	(4)
or ENGT 153	Machine Design with AUTOCAD	(3)
MATH 190	Analytic Geometry and Calculus II	4

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
ENGT 131	Design Fundamentals Including AutoCAD	3
MATH 150	Precalculus Mathematics	4
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

**ADDITIONAL LOWER DIVISION REQUIREMENTS
FOR SPECIFIC TRANSFER INSTITUTIONS**
California State University – Long Beach

CIS 101	Introduction to Computer Information Systems	3
CIS 280	Object-Orientated Programming in C++	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

California State Polytechnic University – Pomona

CHEM 111	General Chemistry	5
CHEM 111	General Chemistry	5
CIS 180	Programming in C/C++	3
or CIS 178	Programming in FORTRAN	(3)
WELDING 100	Welding Fundamentals	2.5

Electronics and Computer Engineering Technology

CHEM 111	General Chemistry	5
CIS 180	Programming in C/C++	3
or CIS 178	Programming in FORTRAN	(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
MATH 150	Pre-Calculus Mathematics	4
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
PHYS 100	Elementary Physics	4
or PHYS 101	General Physics	4

**ADDITIONAL LOWER DIVISION MAJOR REQUIREMENTS
FOR SPECIFIC TRANSFER INSTITUTIONS**
California State University – Fullerton**(Mechanical Engineering with option in Manufacturing Engineering)**

CIS 178	Programming in FORTRAN	3
MATH 220	Analytic 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

**California State Polytechnic University – Pomona
(Manufacturing Engineering)**

CHEM 112	General Chemistry	5
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
or ECON 202	Principles of Microeconomics	(3)
or ECON 202M	Principles of Microeconomics	(3)
ENGT 131	Design Fundamentals Including AutoCAD	3
or ENGT 153*	Machine Design with AutoCAD	(3)
MATH 220	Analytic Geometry and Calculus III	4
MATH 240	Calculus and Differential Equations	4

Curriculum and Requirements for Transfer Programs and Career Pathways

PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

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)

Lower Division Major Preparation for California State University, Dominguez Hills (offered through Extended Education).

		UNITS
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MATH 112	Elementary Statistics	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4

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.

JOURNALISM

TRANSFER MAJOR REQUIREMENTS

COMMON LOWER DIVISION MAJOR PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

		UNITS
JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning News Writing and Reporting	3

ADDITIONAL LOWER DIVISION PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton

Journalism Concentration, (print, broadcast and visual journalism emphasis), Communications Major

JOUR 121	Multimedia Reporting	3

Other Communication major concentrations are: Advertising; 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 major requirements, and be able to type at a rate of at least 40 words per minute.

Students should meet with a journalism advisor upon entrance at CSULB.

California Polytechnic University, Pomona

Communication Major, Journalism Subplan

ART 188	Design for Desktop Publishing	3
JOUR 130	Photo Journalism	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
PHOT 100	Introductory Photography	3
SPCH 235	Fundamentals of Argumentation and Persuasion	3

NOTE: Cal Poly 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

Single Subject Teaching

ENGL 100	Freshman Composition	4
ENGL 103	Critical and Argumentative Writing	3
ENGL 102	Freshman Composition and Literature	3
or ENGL 248A	Masterpieces of World Literature	(3)
or ENGL 248B	Masterpieces of World Literature	(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 230A	Introduction to America Literature	3
ENGL 230B	Introduction to America Literature	3

There is also another course required for Journalism, JMS 220, that is not articulated with San Diego State. There is also a foreign language graduation requirement which requires completion up to the third college semester.

NOTE: All prerequisites must be taken for a grade and completed with a minimum 3.0 GPA. Journalism is an impacted major and will require grades of "C" or better in the above prerequisite classes 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) A.A. Degree General Education requirements and (3) electives as needed.

See Cerritos College Graduation Requirements.

See State University General Education List.

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
PHYS 203 Engineering Physics	3
Physics articulation is approved as a sequence only (201+202+203).	

In addition to the above the MATH EDUCATION OPTION requires

MATH 112 Elementary Statistics	4

California State University – Fullerton

MATH 240 Calculus and Differential Equations	4

All courses required for the major must be completed with a “C” or higher. Required courses may not be taken for pass/no pass. 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 214 UNIX	3
CIS 281 Windows programming with Visual C#.net	3
CIS 292 Data Structures	3

ECONOMICS COGNATE

ECON 201M Principles of Macroeconomics	3
ECON 202M Principles of Microeconomics	3

PHYSICS/ENGINEERING COGNATE

PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4
PHYS 203 Engineering Physics	4

CHEMISTRY COGNATE

CHEM 111 General Chemistry	5
CHEM 112 General Chemistry	5

California State University - Long Beach

CIS 182 Java Programming	(3.5)
PHYS 201 Engineering Physics	4

APPLIED MATHEMATICS OPTION

Complete the requirements listed above and follow sub-option 1 (science and engineering) PHYS 202, PHYS 203 or sub-option II (economics and management) ECON 201M and 202M.

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

Beside the B.A. in Mathematics, CSULA also offers the B.S. in Mathematics which requires Physics 202 and a minimum of 8 units from lower division natural science or engineering courses.

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

CIS 180 Programming in C/C++	3
or CIS 178 Programming in Fortran	(3)
MATH 240 Calculus and Differential Equations	4
PHYS 201 Engineering Physics	4
PHYS 202 Engineering Physics	4
PHYS 203 Engineering Physics	4

Major concentrations in Applied Mathematics, Secondary Teacher Preparation/Pure Math, or Statistics require the same lower division preparation.

University of California – Irvine

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
CHEM 112 General Chemistry	5
or PHYS 201 Engineering Physics	(4)
PHYS 202 Engineering Physics	4
or PHYS 201 Engineering Physics	(4)

Curriculum and Requirements for Transfer Programs and Career Pathways

PHYS 203	Engineering Physics	4
or PHYS 201	Engineering Physics	(4)
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4
MATH 240	Calculus and Differential Equations	4

Preference will be given 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 Education, Statistics, or a concentration in Mathematics for 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:

BIOL 200	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 202	Engineering Physics	4
PHYS 203	Engineering Physics	4

The courses listed above will also cover the requirements for Mathematics in Teaching minus the BIOL 200 course.

MATHEMATICS OF COMPUTATION/B.S. OPTION

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)
MATH 240	Calculus and Differential Equations	4

MATHEMATICS/APPLIED SCIENCE/B.S. OPTION

Actuarial Concentration

ACCT 101	Fundamentals of Accounting I	4
ACCT 102	Fundamentals of Accounting II	4
CIS 280	Object-Oriented Programming in C++	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)
ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
MATH 240	Calculus and differential equations	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 concentration plans in the following: Management/Accounting and History of Science.

MATHEMATICS/ECONOMICS/B.S. OPTION

CIS 280	Object-Oriented Programming in C++	3
ECON 201	Principles of Macroeconomics	3
or ECON 201M	Principles of Macroeconomics	(3)

ECON 202	Principles of Microeconomics	3
or ECON 202M	Principles of Microeconomics	(3)
MATH 240	Calculus and Differential Equations	4

There is also an Applied Math B.S. Degree at UCLA as well. Degree requirements can be obtained at www.assist.org.

University Of California – Riverside

Courses Required for both the B.A. and B.S. Degree

CIS 180	Programming in C/C++	3
MATH 240	Calculus and Differential Equations	4

Add the following for the B.S. Degree

CIS 280	Object-Oriented Programming in 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)
ZOOL 120	Intro to Animal Biology	4

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
or ECON 202M	Principles of Microeconomics	(3)

Environmental Science Option

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
GEOL 101	Physical Geology (recommended)	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.

The IGETC is not accepted for majors housed in the College of Natural and Agricultural Sciences. Transfer students are encouraged to follow the College of Natural and Agricultural Sciences breadth pattern as outlined on www.assist.org.

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 REQUIREMENTS

Complete the above common lower division requirements and all A.A. 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.

MICROBIOLOGY

TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR CALIFORNIA STATE UNIVERSITY AND 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

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills (Option within the Biology B.S. 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
and PHYS 102	General Physics	4
or PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	(4)

California State University – Los Angeles

CHEM 205	Quantitative Analysis Chemistry	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 (Option within Biology major)

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
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)

See a counselor for further information.

University of California-Irvine (Microbiology and Immunology B.S.)

BIOL 202	Molecular Biology/Genetics	4
CHEM 211	Organic Chemistry	5
CHEM 212	Organic Chemistry	5
MATH 170	Analytic Geometry and Calculus I	4
MATH 190	Analytic Geometry and Calculus II	4
or MATH 112	Elementary Statistics	(4)
or PSYC 210	Elementary Statistics	(4)
PHYS 201	Engineering Physics	4
PHYS 202	Engineering Physics	4

NOTE: The major in Microbiology and Immunology is open only to upper-division Biological Sciences majors who meet specified course and grade requirements as listed at www.changeofmajor.uci.edu. Transfer students interested in this major should apply as Biological Sciences majors.

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
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

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

TRANSFER MAJOR REQUIREMENTS

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 program (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 a 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, 147 and 154.

ADDITIONAL LOWER DIVISION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Fullerton

A 2.5 grade point average is required in all courses to be used in degree requirements.

Each student will audition in their principal performance area (instrument or voice) and will audition for placement in class piano. In addition they will take a music theory placement exam and will receive credit only up to their demonstrated level of competence, regardless of how many courses or units have been completed.

Students are expected to reach a certain competency in piano which can be achieved independently or through class-piano study. However,

the CSUF Music Department does not require piano classes in any degree program and does not grant transfer credit for piano classes, except as music electives.

Music majors are expected to participate in a major performance ensemble every semester.

In addition to the common lower division transfer music major preparation lists above, allied requirements for the composition concentration require 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)

A similar requirement applies to the voice concentration but two modern languages must be completed.

California State University – Long Beach

All entering transfer students are required to take a theory placement test, complete a performance audition which is regularly administered during the fall and spring semester, and pass a piano proficiency examination, regardless of performance area (piano majors excepted).

All applicants to the Bachelor of Arts in Music program must meet with the BA advisor before or at the beginning of the first semester of residence to review the statement of purpose and to draw up an individualized study plan.

For the bachelor's of music degree, admission to one of the options is determined by audition and approval of the Director of the Conservatory.

Students in the bachelor of music options of history and literature and performance may complete the second semester of French or German or successfully pass the appropriate foreign language exam.

University of California – Irvine

It is recommended that transfer students enter the major with college-level private instrumental or voice instruction, at least one year of ensemble or repertory; two years of music theory (the 4th semester of music theory is not articulated); the history of western music; ear-training; sight-singing; sight-reading and piano. All transfer students must pass a performance audition in order to declare a major in either the B.A. 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. All transfer students should pass the required piano (sight-reading) examination no later than their second quarter of upper-division standing. A complete list of recommended proficiency levels can be found in the UCI General Catalogue.

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. For music education students, an additional year of participation in a large performance group is recommended as well as a course in cultural or world music.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete a minimum of 60 units to include (1) the above course requirements, (2) the A.A. 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.

NURSING—RN

TRANSFER PROGRAM

The following program does not lead to an Associate in Arts Degree. To earn an A.A. degree, see Nursing in the catalog for the major requirements.

LOWER DIVISION MAJOR REQUIREMENTS FOR SPECIFIC TRANSFER UNIVERSITIES

California State University – Fullerton

CSUF offers two BSN Degrees, the RN-BSN and the Entry Level BSN Program.

RN-BSN Program

Admission Requirements:

- Meet requirements for admission to the university as a transfer student.
- Completion of an A.A. degree in Nursing or equivalent.
- Current licensure as a registered nurse in California.
- Completion of one year of satisfactory work experience as a registered nurse recommended.
- Completion of the following prerequisite courses with a minimum grade of “C” in each course.
A&P 200 & 201 (preferred) or A&P 150 & A&P 151
CHEM 100 or CHEM 110, or CHEM 111
MICR 200
PSYC 101
SOC 101 or ANTH 100

Entry Level BSN Program

Due to budget cuts, upper division transfers are no longer being considered for University admission as pre-nursing majors until further notice.

California State University – Los Angeles

CSULA offers two pathways in nursing; the Basic Nursing program and the RN transfer program. In the basic program students are admitted to lower division nursing following completion of prerequisite courses. The RN transfer program is designed for students who transfer from a community college with an Associate of Arts or Associate of

Science in Nursing. These students are admitted to upper division nursing. **CSULA is an impacted campus. Admission will first be granted to qualified first time freshman and upper division transfer applicants from the CSULA local admission area who file their applications during the initial admissions application filing period. Applicants outside the CSULA admissions area will be admitted for the available spaces based on their rank-order on the CSU Eligibility Index (EI). Admission to the nursing major in the School of Nursing requires a separate application obtained in the School of Nursing advisement office. Applications are accepted September 1 to December 1 of each academic year.**

Basic Nursing – BS and RN Transfer – B.S.

Prerequisite Courses:

A&P 200 and A&P 201 or A&P 150 and A&P 151
CHEM 100
MICRO 200
ENGL 100
One course from ENGL 103*, PHIL 103, PHIL 106 or SPCH 235
PSYC 101
PSYC 251
SOC 101
SPCH 130
HO 152

A statistics course which includes inferential statistics is required.
(RN transfer students are exempt)

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

California State University – Long Beach

CSULB offers two bachelors degree:

- 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 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, as stated on the admissions web site. <http://www.csulb.edu/depts/enrollment/admissions/transfers.html>.

The Bachelor of Science in Nursing –Basic program is impacted. Please refer to the admissions website for details. http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

Prerequisite Courses:

A&P 200 or A&P 150
A&P 201 or A&P 151
MICRO 200
PSYC 101
SOC 101

Prerequisite General Education Courses:

CSUGE Oral Communication – 3 semester units
CSUGE Written Communication – 3 semester units
CSUGE Critical Thinking – 3 semester units
CSUGE Quantitative Reasoning – 3 semester units

Bachelor 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 General Education certification requirements.

University of California – Los Angeles

Nursing-Generic/Pre-licensure/B.S.

The Generic/Pre-licensure B.S. degree program at UCLA has been designed to prepare students for a career in nursing. This is a three year program beginning in the freshman year. **Transfer students will be considered for a very limited number of openings beginning Fall 2010.** For more information regarding this major and UCLA's transfer selection process, visit www.nursing.ucla.edu and www.admissions.ucla.edu.

ADMISSION REQUIREMENTS:

- Completion of specified major prerequisites with a C or better.
- Completion of a Statement of Purpose.
- Two recommendations from Teachers or Counselors and one from a professional in a supervisory educational or mentoring relationship.
- Minimum cumulative GPA of 3.5 in all UC – transferable courses.
- Completion of IGETC.
- Completion of the following prerequisites:
A&P 200 and A&P 201
or
A&P 150 and A&P 151, BIOL 200, BIOL 201, and BIOL 202
CHEM 111, CHEM 112 and CHEM 211
MICRO 200
PSYC 101
ENGL 100,
ENGL 102 or ENGL 103 or PHIL 103 or PSYC 103 or
SPCH 235
SPCH 130
Mathematics – One UC-transferable course in mathematical concepts and quantitative reasoning that has a prerequisite or intermediate algebra or higher.

University of California – Irvine

UCI offers a B.S. degree in Nursing Science. **The number of transfer students that can be admitted to the major is limited and selective.** Junior – level applicants with the highest grades overall and who satisfactorily complete course prerequisite will be given preference for admissions. All applicants must complete the following courses with grades of “B” or better.

Applicants must have a cumulative GPA of 3.0 or higher to be considered.

The following degree requirements are effective for students entering the major FALL 2012.

Program prerequisites:

BIOL 201
BIOL 202
CHEM 111
CHEM 112
CHEM 211
MATH 112 or PSYC 210

The requirements listed for the major above are subject to change without notice. It is the student's responsibility to check for the most recent information with a Cerritos College counselor or by consulting ASSIST at www.assist.org. Note: Courses listed may require prerequisite coursework.

The following degree requirements are effective for students entering the major FALL 2013 in addition to those noted above.

A&P 200
A&P 201
MICR 200
PSYC 101
SOC 101

PHILOSOPHY

TRANSFER PROGRAM

UNITS

California State University – Los Angeles

Option I: General Option

PHIL 106	Introduction to Logic	3
PHIL 100	Introduction to Philosophy	3

Option II: Prelaw Option

PHIL 100	Introduction to Philosophy	3
PHIL 103	Philosophical Reasoning : Critical Thinking in Philosophy	3
or PHIL 106	Introduction to Logic	(3)

Students are advised to complete ENGL 103 as their CSUGE 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 Ethics	(3)

California State Polytechnic – Pomona

PHIL 100	Introduction to Philosophy	3
or PHIL 102	Introduction to Ethics	(3)
PHIL 106	Introduction to Logic	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	Contemporary Philosophy	3
FREN 202	Intermediate French	4
or GERM 202	Intermediate German	(4)
or JAPN 202	Intermediate Japanese	(4)
or SPAN 202	Intermediate Spanish	(4)

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 220	History of the Americas	3
HIST 221	History of the Americas	3
HIST 235	History of Latin America	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
HIST 260	Survey of the History of Asia	3
HIST 265	Selected Problems in Contemporary Asian History	3

D)		
PHIL 100	Introduction to Philosophy	3
PHIL 102	Introduction to Ethics	3
PHIL 201	Contemporary Philosophy	3
PHIL 203	Philosophy of Religion	3

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 units minimum and all A.A. 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

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

Photocommunications may be selected as a concentration in the Communications major.

JOUR 100	Mass Communication and 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 130A	Fundamentals of Painting	3
ART 130B	Fundamentals of Painting	3

Creative Photography Concentration-Preparation

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)
PHOT 102	Intermediate Photography	3
or PHOT 200	Advanced Photography	(3)
or PHOT 240	Experimental Photography	(3)

In consultation with a counselor it is imperative that you see CSU Fullerton Catalog under "Department of Communications, Bachelor of Arts in Communication" for additional requirements.

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 this requirement may not also be used to meet the Creative Photography Concentration-Preparation requirements above. **Please note that double counting of Communication courses for General Education and major requirements is not permitted.**

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.

Art Option in Art Photography

ART 101	Art History I: Prehistory to Gothic	3
ART 102	Art History II: Renaissance to Rococo	3
ART 110	Freehand Drawing	3
ART 120	Two-Dimensional Design	3
ART 121	Three-Dimensional	3
ART 186	Computer Graphics with Adobe Illustrator	3
PHOT 100	Introductory Photography	3

California State University – Northridge

Photojournalism may be selected as an area of emphasis.

JOUR 100	Intro to Mass Communication	3
JOUR 101	Beginning Newswriting and Reporting	3
PHOT 100	Introductory Photography	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 units minimum and all A.A. 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.

PHYSICAL EDUCATION

TRANSFER PROGRAM

COMMON LOWER DIVISION MAJOR PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

		UNITS
A&P 150	Introduction to Human Anatomy	4
A&P 151	Introduction to Human Physiology	4

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University – Dominguez Hills

Common Core Requirements for Physical Education 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	(5)
and A&P 201	Human Physiology	5
PE 100	Introduction to Physical Education and Sport	2

Pre-Physical Therapy Option

BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
and CHEM 112	General Chemistry	5
PHYS 101	General Physics	4

Fitness Director Option

PE 132A	Low Impact Aerobics	1.5
or PE 132B	Aerobics Activities	(1.5)
or PE 133	Step Aerobics	(1.5)
or PE 134	Water Aerobics	(1)
PE 135A	Circuit Weight Training, Beginning	1
or PE 135B	Circuit Weight Training, Intermediate/Advanced	(2)
PE 141	Fitness and Wellness	3
PE 143	Personal Fitness	1
PE 150A	Swimming, Beginning	1
or PE 150B	Swimming, Intermediate/Advanced	(2)
PE 156A	Gold Beginning	1
or PE 156B	Gold Intermediate/Advanced	(2)
PE 159A	Tennis Beginning	1
or PE 159B	Tennis Intermediate/Advanced	(2)

Teaching Option

DANC 125	Introduction to Ballroom Dance	2
or DANC 121	Latin Social Dance	(2)
PE 132A	Low Impact Aerobics	1.5
or PE 132B	Aerobics Activities	(1.5)
or PE 133	Step Aerobics	(1.5)
or PE 134	Water Aerobics	(1)
PE 154A	Badminton, Beginning	2
or PE 154B	Badminton, Intermediate/Advanced	(2)
PE 156A	Golf, Beginning	1
or PE 156B	Golf, Intermediate/Advanced	(2)
PE 141	Fitness and Wellness	3
PE 143	Personal Fitness	1
or PE 135A	Circuit Weight Training, Beginning	(1)
or PE 135B	Circuit Weight Training, Intermediate/Advanced	(2)
PE 150A	Swimming, Beginning	1
or PE 150B	Swimming, Intermediate/Advanced	(2)
PE 159A	Tennis, Beginning	1
or PE 159B	Tennis, Intermediate/Advanced	(2)

Select two courses from the following:

PE 171A	Softball	1
or PE 171B	Softball, Intermediate/Advanced	(2)
PE 172A	Volleyball	1
or PE 172B	Volleyball, Intermediate/Advanced	(2)
PE 176A	Basketball, Beginning	1
or PE 176B	Basketball, Advanced	(2)
PE 179A	Soccer, Beginning	1
or PE 179B	Soccer, Intermediate/Advanced	(2)

California State University – Fullerton

Athletic Training Major - B.S.

HED 100	Contemporary Health Problems	3
PSYC 101	General Introductory Psychology	3

Recommended courses for preparation:

A&P 120	Introduction to Human Anatomy and Physiology	4
or A&P 150	Introduction to Anatomy	(4)
and A&P 151	Introduction to Physiology	4
or A&P 200	Human Anatomy	(5)
and A&P 201	Human Physiology	5
PE 100	Introduction to Physical Education and Sport	2

NOTE: The Department of Kinesiology offers a Bachelor of Science in Athletic Training through its Athletic Training Education Program (ATEP), which is nationally accredited by the Commission on the Accreditation of Athletic Training Education (CAATE). After transfer, students will complete five semesters of clinical rotations. Upon successful completion, students earn a B.S. in Athletic Training and are eligible to take the Board of Certification (BOC) exam to become a certified athletic trainer (ATC). Please refer to the program website (<http://hhd.fullerton.edu/at/>) for the most current ATEP information.

Kinesiology Major

A&P 120	Introduction to Human Anatomy and Physiology	4

Select six (6) units from the following

Fitness	1
Aquatics	1
Martial Arts/Combatives	1
Individual Sports	1
Racquet Sports	1
Team Sports	1

Each course counted toward the major must be completed with a grade of "C" (2.0) or higher.

NOTE: After transfer, students must complete 21-unit advising track in one of the following focus areas: Athletic Training, Clinical Exercise Science, Fitness & Health Promotion, Gerokinesiology, Sports Studies, or Teacher Education.

California State University – Long Beach

Athletic Training Major - B.S.

A&P 150	Introduction to Anatomy	4
or A&P 200	Human Anatomy	(5)
A&P 151	Introduction to Physiology	4
or A&P 201	Human Physiology	(5)
CHEM 100	Introductory Chemistry	4
or CHEM 111	General Chemistry	(5)
HO 152	Normal and Therapeutic Nutrition	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
PE 107	Introduction to Athletic Training	3
PHYS 101	General Physics	4
PSYC 101	General Introductory Psychology	3

Kinesiology Major-B.S.

Common Core Requirements for Kinesiology Options

A&P 150	Introduction to Anatomy	4
or A&P 200	Human Anatomy	(5)
A&P 151	Introduction to Physiology	4
or A&P 201	Human Physiology	(5)
PSYC 101	General Introductory Psychology	3

ADDITIONAL REQUIREMENTS:

Exercise Science Option

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MATH 114	College Algebra	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4

Elective Courses: See counselor

BIOL 120	Introduction to Biological Science	4
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
HO 152	Normal and Therapeutic Nutrition	3
MA 161	Medical Terminology	3
MICRO 200	Principals and Applications of Microbiology	5

Fitness Option

HO 152	Normal and Therapeutic Nutrition	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
PSYC 101	General Intro to Psychology	3

Take 7 physical activity units. Must select seven different classes. See counselor for details.

Elective Courses: see counselor

PE 107	Introduction to Athletic Training	4

Kinesiotherapy Option

Applicants must have completed a minimum of 100 hours of observation or active participation in a therapeutic or rehabilitation setting.

MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
PSYC 220	Research Methods	4
PSYC 241	Introduction to Psychobiology	3

Physical Education Option

PE 160	Personal Self Defense	1

Sport Psychology and Coaching Option

HED 110	Community First Aid and CPR	3
HO 152	Normal and Therapeutic Nutrition	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

Take 3 physical activity units. See counselor for details.

California State University – Northridge

Athletic Training Major – B.S.

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
BIOL 120	Introduction to Biological Science	4
HO 152	Normal and Therapeutic Nutrition	3
MATH 112	Elementary Statistics	4
PSYC 101	General Intro to Psychology	3

The BS in Athletic Training has a separate application from the CSUN admissions process. Admission criteria includes GPA, observation hours, letters of recommendation and a personal interview with the selection committee. For further information about the Athletic Training Major visit www.csun.edu/hhd/kin. AP credit may be used to satisfy math requirements. See Counselor for details.

Kinesiology Major – B.S.

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
BIOL 120	Introduction to Biological Science	4
MATH 112	Elementary Statistics	4

ADDITIONAL REQUIREMENTS:

Physical Education Option

There are no formally articulated courses for Physical Education option.

Exercise Science Option

CHEM 111	General Chemistry	5
or CHEM 110	Elementary Chemistry	(4)
PHYS 101	General Physics	4

Applied Fitness and Active Lifestyle Development Option

HO 152	Normal and Therapeutic Nutrition	3
PSYC 101	General Introductory Psychology	3

California State University, Los Angeles

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

Complete the required courses as listed below and select one of the following options:

Exercise Science Major - B.S.

A&P 200	Human Anatomy	5
and A&P 201	Human Physiology	5
or A&P 150	Introduction to Human Anatomy	(4)
and A&P 151	Introduction to Human Physiology	4
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MATH 140	Trigonometry	3
MATH 150	Precalculus	4
PSYC 101	General Introductory Psychology	3

Option I. Exercise and Biosciences

CHEM 112	General Chemistry	5
CHEM 205	Quantitative Analysis Chemistry	4

Option II. Exercise and Nutrition

MICR 200	Principles and Application of Microbiology	5

Kinesiology Major B.S

Required Core for all Options

LOWER DIVISION REQUIRED COURSES

		UNITS
A&P 200	Human Anatomy	5
A&P 201	Human Physiology	5
or A&P 150	Introduction to Human Anatomy	(4)
and A&P 151	Introduction to Human Physiology	4
HED 110	Community First Aid and CPR	3
MATH 150	Precalculus Mathematics	4
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
PHYS 100	Elementary Physics	4
PSYC 101	General Introductory Psychology	3
SOC 101	Introductory Sociology Principles	3

Select one of the following options and complete the required courses as listed below.

Option I: Exercise and Human Performance Science

There are no formally articulated courses for Exercise and Human Performance Science.

Option II: Rehabilitation and Therapeutic Exercise

There are no formally articulated courses for Rehabilitation and Therapeutic Exercise.

Option III: Community Leadership

There are no formally articulated courses for Community Leadership.

Option IV: Subject Matter Preparation for Single Subject Teaching Credential

There are no formally articulated courses for Subject Matter Preparation for Single.

Subject Teaching Credential

Dance Concentration

Take 2 activity units. See counselor for details.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

Complete above common lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 units minimum and all A.A. 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.

PHYSICS

TRANSFER PROGRAM

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

		UNITS
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

ADDITIONAL LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

California State University - Dominguez Hills (General Physics Option)

CIS 171	Visual Basic Major Programming	3
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 203	Engineering Physics	4

NOTE: Chemistry and Physics articulation is approved as a sequence only (Chem111+112) and (Physics 201+202+203)

California State University – Fullerton

CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 203	Engineering Physics	4

NOTE: All courses in Physics, Math and Chemistry for major must be completed with a “C” or better.

California State University - Long Beach

BIOL 120	Introduction to Biological Science	4
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 203	Engineering Physics	4

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

California State Polytechnic University – Pomona

BIOL 120	Introduction to Biological Science	4
CIS 180	Programming in C/C++	3
or CIS 178	Programming in Fortran	(3)
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

University of California – Irvine

CIS 180	Programming in C/C++	3
or CIS 280	Object-Oriented Programming in C++	(3)
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

The following courses are required before transfer (to be most competitive): 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

CHEM 111	General Chemistry	5
MATH 240	Calculus and Differential Equations	4
PHYS 203	Engineering Physics	4

NOTE: The Physics articulation is approved as a sequence (201+202+203).

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.

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 and POL 210 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 are encouraged to complete at least 6 lower division units of Political Science coursework, which should include 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 are advised to complete ENGL 103 as their CSUGE Critical Thinking requirement. This will meet a graduation requirement at CSULA as the prerequisite for their writing proficiency requirement.

University of California – Irvine

CIS 280	Object-Oriented Programming in C++	3
and CIS 182	JAVA Programming	3.5
MATH 170	Analytic Geometry and Calculus I	4
and MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)

In addition to the courses listed above, please see the website www.assist.org for a list of other courses from which to choose for the Political Science major at UCI.

University of California – Los Angeles

POL 210	International Relations	3
POL 220	Comparative Government	3
PSYC 210	Elementary Statistics	4

This major is highly selective. Students who complete POL 101 or 201, 210 and 220 may be considered for the major. In addition to these courses, the Political Science major at UCLA includes additional lower division courses not articulated with Cerritos College. Students may elect to take the courses at another community college to be competitive for admission to the major. For more information regarding this major and the UCLA transfer selection process, visit www.admissions.ucla.edu.

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 includes an additional lower division course not articulated with 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 units 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-MEDICAL CAREER PATHWAYS

PRE-CHIROPRACTIC CAREER PATHWAY

The following curriculum does not lead to an Associate in Arts Degree in Pre-Chiropractic. However students may fulfill requirements for a Natural Sciences Degree by completing a minimum of 18 units of science and math courses to include at least 4 units in the Physical Sciences, at least 4 units in the Biological Sciences, and at least 3 units in a math course beyond Intermediate Algebra. Please refer to the Cerritos College catalog for more information.

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 been completed institution accredited by a nationally recognized agency.

COMMON LOWER DIVISION PREPARATION FOR CHIROPRACTIC SCHOOLS:

		UNITS
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

* For other options see a counselor.

ADDITIONAL LOWER DIVISION PREPARATION FOR SPECIFIC INSTITUTIONS:

Cleveland Chiropractic College of Los Angeles www.clevelandchiropractic.edu

It is preferred, but not required, that candidates complete a bachelor's degree prior to entering the Doctor of Chiropractic program. Applicants must have completed at least ninety (90) or more semester units or the equivalent number of credits in quarter hours, applicable to a bachelor's degree, with a minimum GPA of at least 2.50 on a 4.00 scale. A grade of "C" or better is required in the 90 semester units. Of these required 90 total semester units, a minimum of 48 semester units must be the specified science and General Education requirements. Students who hold a professional degree in a health science discipline at the baccalaureate level or above with a cumulative grade point average of 2.50, or those who hold a baccalaureate degree with an earned grade point average of at least 3.25 receive preference for admission.

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
Recommended Courses: Anatomy, Physiology, Microbiology, Medical Terminology		

The Council on Chiropractic Education's 2012 Standards call for chiropractic colleges to require a 3.0 GPA for admission by 2014. Cleveland Chiropractic College will be gradually increasing its prerequisite GPA in order to meet this Standard by 2014. Please consult with the Office of Admissions for further information.

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 is required in the 90 semester units. The prerequisite and cumulative grade point averages must be 2.5 on a 4.0 scale 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
and BIOL 201	Principles of Biology	5
or A&P 200	Human Anatomy (preferred)	(5)
and A&P 201	Human Physiology (preferred)	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 increase 20 percent between 2008 and 2018, much faster than the average for all occupations. Projected job growth stems from increasing consumer demand for alternative healthcare. 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 Degree in Pre-Dental. However students may fulfill requirements for a Natural Sciences Degree by completing a minimum of 18 units of science and math courses to include at least 4 units in the Physical Sciences, at least 4 units in the Biological Sciences, and at least 3 units in a math course beyond Intermediate Algebra. Please refer to the Cerritos College catalog for more information.

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

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 and Literature	3
PHYS 201	Engineering Physics	(4)
PHYS 202	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 <http://www.ada.org/2195.aspx> or the American Association of Dental Schools, 1625 Massachusetts Ave., N.W. Washington, D.C. 20036 (Attn: Publications Assistant) or order from their website: www.ada.org.

OTHER USEFUL WEBSITES: American Dental Education Association at www.adea.org/pages/default.aspx or Dental Admission Test (DAT) information at www.ada.org/dat.aspx.

For accurate programming and more school-specific detailed information concerning the California schools of dentistry, look up the dental school website:

Loma Linda University
<http://llu.edu/llu/dentistry>
 University of California, Los Angeles
<http://uclasod.dent.ucla.edu/>

University of California, San Francisco
<http://dentistry.ucsf.edu/> and/or www.assist.org

University of the Pacific, San Francisco Campus
<http://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: Dentists 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); endodontists (performing root canal therapy); public health dentists (promoting good dental health and preventing dental diseases within the community); oral pathologists (studying oral diseases); or oral and maxillofacial radiologists (diagnosing diseases in the head and neck through the use of imaging technologies). Employment of dentists is projected to grow faster than average through 2018. 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. Average annual salary for dentists is \$204,500 according to ADA. 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 Degree in Pre-Medical. However, students may fulfill requirements for a Natural Sciences Degree by completing a minimum of 18 units of science and math courses to include at least 4 units in the Physical Sciences, at least 4 units in the Biological Sciences, and at least 3 units in a math course beyond Intermediate Algebra. Please refer to the Cerritos College catalog for more information.

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)

* For other options see a counselor.

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 ten 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
<http://medschool.ucsf.edu>
- U.S.C. Keck School of Medicine
www.usc.edu/schools/medicine

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 (A.A.M.C) website: www.a.a.m.c.org. Another recommended website 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 is projected to grow 22 percent from 2008 to 2018, much faster than the average for all occupations. Job growth will occur because of continued expansion of healthcare-related 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 may fulfill requirements for a Natural Sciences Degree by completing a minimum of 18 units of science and math courses to include at least 4 units in the Physical Sciences, at least 4 units in the Biological Sciences, and at least 3 units in a math course beyond intermediate Algebra. Please refer to the Cerritos College catalog for more information.

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., Chicago, IL. 60611; Telephone 800.232.2159; email 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, <http://www.opted.org> or UC Berkeley Optometry Club called Foresight at <http://sites.google.com/site/ucberkeleyforesightclub/>. Information on UC Berkeley's pre-professional preparation coursework can be found at <http://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)

Biochemistry, Anatomy, Physiology and a Bachelor's degree will be required for those applying to SCCO. 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 2012, the OAT must be completed by March 15, 2012.

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 academic year 2011-12, one hundred students were admitted. The average G.P.A. of the students admitted was 3.38 G.P.A. The mean OAT score was 329.

University of California – Berkeley <http://optometry.berkeley.edu>

CHEM 212	Organic Chemistry	5
ENGL 246A	Survey of English Literature	3
or ENGL 246B	Survey of English Literature	(3)
MATH 190	Analytic Geometry and Calculus	4

The following Cerritos College coursework is recommended to prepare students for required upper division equivalent science coursework: A&P 200, Human Anatomy, A&P 201, Human Physiology, and BIOL 202, Molecular Biology/Genetics. Biochemistry is required and 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.

In this last academic year, 2011-2012 there were 254 applicants, of which 66 students were admitted with an average 3.40 G.P.A. in prerequisite courses only. The average OAT score was 349 in all subjects. The range of OAT lowest scores was 300 and the high score was 349. 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 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 faster than the average in California and average nationally for all occupations through 2016. Retirement of older practitioners is expected to create job opportunities. The age structure of the population is a factor affecting demand. People over 45 visit an Optometrist more frequently.

Other factors include rising incomes and greater recognition of the importance of vision care. 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. According to EUREKA, median net annual income for all optometrists was \$106,752 in 2011.

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 may fulfill requirements for a Natural Sciences Degree by completing a minimum of 18 units of science and math courses to include at least 4 units in the Physical Sciences, at least 4 units in the Biological Sciences, and at least 3 units in a math course beyond intermediate Algebra. Please refer to the Cerritos College catalog for more information.

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 a popular major selected.

COMMON COURSE REQUIREMENTS FOR MOST PHARMACY SCHOOLS

		UNITS
BIOL 200	Principles of Biology	5
BIOL 201	Principles of Biology	5

Curriculum and Requirements for Transfer Programs and Career Pathways

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

* For other options see a counselor.

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 B.S. 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.

A&P 200	Human Anatomy (as of entry 2006)	5
ECON 201	Principles of Macroeconomics	3
or ECON 202	Principles of Microeconomics	(3)
MICR 200	Principles & Applications of Microbiology	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4
SPCH 100	Fundamentals of Oral Communication	3

A course in biochemistry is also required and is taught at most universities.

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

Commencing June 1, 2011 for admission in the fall of 2012 all accepted applicants must have completed the requirements for the bachelor's degree (B.S. or B.A.). Applicants who have not earned a degree or who will not have earned one prior to the start of classes in the fall, will not be considered. A minimum overall grade point average (GPA) of 3.0 is required to apply. Applicants are required to have successfully completed, with an average grade point average of 3.0 or better the prerequisite science coursework. 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. The UCSD Skaggs School

of Pharmacy and Pharmaceutical Sciences will accept 60 students into each entering class. There were 1,420 applications received for the class graduating 2013. Number of applicants invited to interview was 288 of which 100% had a bachelor's degree. The average overall G.P.A. of the students admitted was 3.70.

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)

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, in recent years a large majority of successful applicants have held bachelor's degrees usually in biology, biochemistry, or chemistry. The average grade point average of all accepted students is about 3.55. Each year, less than about 1.6% of admitted students enter directly from a California Community College. Last year UCSF Phar.D. 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, and 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 bachelor's degree, science grades, strength of curriculum, extracurricular, community service, leadership qualities, pharmacy experience, 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 3.5. 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)
or PHYS 201	General Physics	(4)
PSYC 101	General Introductory Psychology	3
or PSYC 271	Abnormal Psychology	(3)
SPCH 130	Fundamentals of Speaking	3
or SPCH 235	Fundamentals of Argumentation and Persuasion	(3)

University of Southern California

<http://pharmacyschool.usc.edu>

A bachelor's degree is required prior to entrance. A minimum of 3.0 cumulative grade point average in all college work and pre-pharmacy requirements is required for consideration for an interview. 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. 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 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 101	General Physics	4
and PHYS 102	General Physics	4
or PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	4
or PSYC 203	General Introductory Psychology	3
PSYC 101	Engineering Physics	(4)
or SOC 101	Introductory Sociology Principles	(3)
SPCH 100	Fundamentals of Oral Communication	3
or SPCH 120	Interpersonal Communication	(3)
or SPCH 130	Fundamentals of Speaking	(3)

The following **required** upper division courses are not offered at Cerritos College, but must be taken at another college or university: Biochemistry and Molecular Biolog.

Western University of Health Sciences, College of Pharmacy

Formerly known as College of Osteopathic Medicine of the Pacific
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 prerequisites must be completed by the end of the spring term prior to matriculation.

For the entering class of fall 2011, 120 students were admitted from an applicant pool of 1,560 students. The average cumulative grade point average was 3.41 and the average science grade point average was 3.32. 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 130	Fundamentals of Speaking	(3)

In addition to 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: Two semesters of Biochemistry or one semester of Biochemistry plus one semester of Molecular Biology.

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 master's 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 the doctorate in Physical Therapy (D.P.T.). Admission to the program requires a baccalaureate degree.

The following courses are considered the pre-admission requirements for the MPT-DPT program and completion of the following prerequisites:

Prerequisite Courses:		UNITS
A&P 200	Human Anatomy	5
A&P 201	Human Physiology	5
CHEM 111	General Chemistry	4
CHEM 112	General Chemistry	4
PHYS 101	General Physics	4
PHYS 102	General Physics	4
PSYC 101	General Introductory Psychology	3
MATH 112	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:

A&P 150	Introduction to Human Anatomy	(4)
and A&P 151	Introduction to Human Physiology	(4)
or A&P 200	Human Anatomy	(5)
and A&P 201	Human Physiology	(5)
BIOL 201	Principles of Biology	5
BIOL 200	Principles of Biology	5
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
PHYS 101	General Physics	4
PHYS 102	General Physics	4
PSYC 101	General Introductory Psychology	3

California State University – Northridge

Beginning FALL 2012 the Physical Therapy program at CSUN leads to a Doctor 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. See the following website for more information: <http://www.csun.edu/hhldpt>

The following are some of the prerequisite courses required for the program:

A&P 200	Human Anatomy	5
A&P 201	Human Physiology	5
BIOL 120	Introduction to Biological Science	4
CHEM 111	General Chemistry	5
CHEM 112	General Chemistry	5
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 Degree in Pre-Veterinary. However students may fulfill requirements for a Natural Sciences Degree by completing a minimum of 18 units of science and math courses to include at least 4 units in the Physical Sciences, at least 4 units in the Biological Sciences, and at least 3 units in a math course beyond Intermediate Algebra. Please refer to the Cerritos College catalog for more information.

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 (VCMAS). This is a central application, distribution, collection and processing service at VMCAS, 1101 Vermont Avenue, Washington, DC 20005. phone: (202) 682-0750.

**COMMON LOWER DIVISION PREPARATION FOR
VETERINARY SCHOOLS**

VETERINARY 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
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/student_program

Students are admitted to this school in the fall semester only. Majority 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 chemistry 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. Admission is very competitive and grades are 27% in the evaluation process. The GRE is the graduate record exam, which is required by this veterinary school and also weighs 23%. If the GRE has been taken more than once, the highest score in every section will be used. Scores from

Curriculum and Requirements for Transfer Programs and Career Pathways

the Graduate Record Examination must be taken by September 30th. 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 (weighs 20%), which should include working or volunteer experience with veterinarians, a minimum of 180 veterinary experience hours is required. The interview weighs approximately 20%. Annual cost to attend including tuition, enrollment fees, books etc. will be approximately \$51,531.

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. Effective 2005 application period, Vertebrate Embryology is no longer required.

The following are the application statistics for the class of 2015: From an applicant pool of 1043 only 163 students were accepted. Of the 163 applicants accepted 131 had bachelor degrees, 12 had a Master's or higher only 2 had no degree. The average cumulative GPA was 3.54. The average GPA in required science courses was 3.42. The average GRE scores were 578/79% on Verbal and 725/77% on Quantitative and 4.58/67% on Analytical Writing. The average number of Veterinary-related experience hours at the time of application was 3,025. The university system with the most applicants accepted to the veterinary school was out-of-state (36), followed by UC Davis (34), the UC system (33), CSU system (21), and other California schools (9). http://www.vetmed.ucdavis.edu/studentprograms/class_2014/pdfs/applicationstatistics.pdf

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. The fall 2011 class consisted of 107 students from 736 applicants. The average cumulative grade point was 3.31 and prerequisite grade point average was 3.42. 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.

A&P 200	Human Anatomy	5
A&P 201	Human Physiology	5
BIOL 202	Molecular Biology/Genetics	4
ENGL 100	Freshman Composition	4
ENGL 155	Technical Writing	3

HUMANITIES / SOCIAL SCIENCES		6
ANTH 100	Cultural Anthology	3
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
<http://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, <http://www.aavmc.org/>, California Veterinary Association, <http://www.cvma.net/default.asp>, American Veterinary Medical Association, <http://avma.org/>, U.S. News Rankings and Ratings, www.usnews.com and Veterinary School Search, www.wpi.edu/Academics/Dept/Bio/Prehealth/Search.

THE REQUIREMENTS FOR VETERINARY SCHOOLS ARE
SUBJECT TO CHANGE WITHOUT NOTICE.

CAREER OPPORTUNITIES: Employment of veterinarians is expected to increase faster than average through the year 2018. 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.

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	UNITS 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	

California State University – Los Angeles

Students are advised to complete ENGL 103 as their CSUGE 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
or MATH 112	Elementary Statistics	(4)

University of California – Los Angeles

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	(5)
or PHYS 100	Elementary Physics	(4)
or PHYS 101	General Physics	(4)
or PHYS 201	Engineering Physics	(4) or

PHYS 210	Engineering Physics	(4)
PSYC 210	Elementary Statistics	4
or MATH 112	Elementary Statistics	(4)

The UCLA Psychology Dept. prefers a statistics course to meet the quantitative reasoning major requirement.

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)

All preparatory courses listed should be completed before transfer. Transfer students must be admitted as Pre-Psychology majors in order to major in Psychology. Students originally admitted under other majors will not be permitted to change their major to Pre-Psychology or Psychology.

University of California – Irvine

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

CIS 280	Object-oriented Programming in C++	3
and CIS 182	Java Programming	3.5
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 265	Psychology of Gender	3
PSYC 271	Abnormal Psychology	(3)

Two of the following:

ANTH 100	Cultural Anthropology	3
ANTH 115	Physical Anthropology	(3)
ANTH 170	Introduction to Language and Culture	(3)
ECON 101	US & Global Economy	3
GEOG 102	Natural and Cultural Geography	3
or GEOG 101	Physical Geography	(3)
or GEOG 105	World Regional Geography	(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.

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)

***Alternative way to meet Math 150:** Students who complete Math 114 and Math 140 (both with "C" grades or better) will be considered to have an acceptable course substitution to Math 150. Trigonometry courses do not carry UC transfer credit, but when taken in conjunction with College Algebra can be used to sufficiently cover content in Math 150.

C) Complete one course in Biological Science

BIOL 120	Introduction to Biological Science	4
or BIOL 200	Principles of Biology	(5)
or BIOL 201	Principles of Biology	(5)
or BOT 120	Introduction to Plant Science	(4)
and ZOOL 120	Introduction to Animal Biology	4

D) Complete one course in Physical Science

*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)

*No credit for ASTR 102 or 103 if taken after ASTR 101. UC transferable credit for students taking both ASTR 102 and 103: maximum credit, one course.

CHEM 100	Introductory Chemistry	(4)
CHEM 111	General Chemistry	(5)
and CHEM 112	General Chemistry	(5)
PHYS 100	Elementary Physics	4
PHYS 201	Engineering Physics	(4)
and PHYS 202	Engineering Physics	(4)
and PHYS 203	Engineering Physics	(4)

A UC transferable 3 semester/4 quarter units 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 units minimum and all A.A. 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.

SOCIAL WELFARE

CAREER PATHWAY

(The following curriculum does not lead to an Associate in Arts Degree. To earn an A.A. 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

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

The Bachelor of Arts in Social Work program is impacted and utilizes supplemental criteria for transfer admissions. All transfer applicants must apply during the initial filing period, must apply to the major, and are strongly encouraged to identify an alternate major. Students applying to impacted majors will be considered for admission based on meeting minimum CSU criteria and the supplemental criteria for the specific major. For further department admission information, see the CSULB Social Work website at www.csulb.edu/colleges/chhs/departments/social-work/.

California State University – Los Angeles

ENGL 103*	Critical and Argumentative Writings	3
MATH 112	Elementary Statistics	4
or PSYC 210	Elementary Statistics	(4)
PSYC 101	General Introductory Psychology	3
or SOC 101	Introductory Sociology Principles	(3)

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.

CSU Dominguez and Fullerton offer the Bachelor of Arts in Human Services. This major is similar to Social Work and requirements can be viewed on the ASSIST website at www.assist.org.

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 Plan B General Education Requirements.

SOCIOLOGY

TRANSFER PROGRAM

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

	UNITS
SOC 101 Introductory Sociology Principles	3
MATH 112* Elementary Statistics	4
or PSYC 210 Elementary Statistics	(4)

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 lower division sociology course work may be transferred.

All courses counting toward the major must be taken for a letter grade. SOC 101 must be completed with a "C" or better 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 CSUGE 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

SOC 201	Social Problems	3

Recommended Elective:

ANTH 100	Cultural Anthropology	3

University of California – Irvine

MATH 170	Analytic Geometry and Calculus I	4
SOC 201	Social Problems	3

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.

CIS 280	Object-Oriented Programming in C++	3
and CIS 182	Java Major 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 by the Spring prior to Fall transfer. All courses must be taken for a letter grade with a minimum grade of "C." After transfer to UCLA, student may not change their major to Sociology if they were originally admitted to another major. Students who repeat any preparation course more than once are automatically denied admission to the major.

University of California – Riverside

SOC 205	Introduction to Social Research Methods	3

Two additional lower division sociology courses are required. Any UC transferable sociology course is acceptable. All five courses in the major must be completed with a grade of "C" or better.

*MATH 112 or PSYC 210 listed as a common lower division major preparation course is not required for the major.

See www.assist.org for lower division preparation requirements for the Sociology/Administrative Studies and Sociology/Law and Society majors.

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 units minimum and all A.A. Degree General Education requirements for a total of at least 60 units.

CAREER OPPORTUNITIES: Employment opportunities for those holding the BA will be somewhat limited, although placement in Departments of Public Welfare and Probation and Parole are occasionally available. Persons with graduate degrees – M.A., Ph.D. – will qualify for teaching and research positions.

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

In addition to the common lower division major preparation courses for the California State University, there is one other lower division required course that is not offered at Cerritos.

California State University – Fullerton

The common lower division major preparation for the California State University is required. Both SPAN 101 and SPAN 102 must be completed to articulate. 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)
SPAN 213	Living Spanish Grammar and Written Communication	(2)
or SPAN 214	Living Spanish Grammar and Written Communication	(2)

California State University – Long Beach

One year of intermediate Spanish at the college level or equivalent is required. 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 (SPAN 101, SPAN 102, SPAN 201, & SPAN 202); two years of a second foreign language at the university level, or equivalent are also required. No course being used to satisfy any major requirement for the B.A. may be taken on a pass/no pass basis.

California State University – Los Angeles

No additional requirements other than the common lower division major preparation previously listed for the California State University. Students must have completed the second year of college-level Spanish prior to beginning the BA Program. 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

All students must adhere to the placement policies listed in the UCI General Catalog. Students with prior knowledge of Spanish may need to take the Spanish placement test.

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 prerequisites for admission as a transfer student.

Students majoring in Spanish must choose one of the three following emphases: Literature and Culture; Spanish for Spanish Teachers; Cinema: Spain, Latin America, and U.S. Latino.

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.

In addition, one Spanish civilization course, and one Spanish American civilization course is required prior to admission.

University of California – Riverside

No additional requirements other than the common lower division major preparation for University of California previously listed. Intermediate level proficiency in Spanish is required. Placement into language courses may be determined by UC Riverside faculty evaluation of the student's appropriate language level.

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. Students choose from one of the following 3 options: Cultural Studies, Linguistics, or Literature. All course requirements under these options are upper division.

ASSOCIATE IN ARTS DEGREE REQUIREMENTS

(1) Meet the above requirements as listed for a state university, (2) complete the A.A. 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

TRANSFER PROGRAM

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

UNITS

California State University – Fullerton

Bachelor of Arts in Speech Communication		
SPCH 130	Fundamentals of Speaking	3
same as SPCH 130 LC		
SPCH 235	Fundamentals of Argumentation and Persuasion	3

For Bachelor of Arts in Communication – See a counselor.

California State University – Long Beach

Bachelor of Arts in Communication Studies

This is a newly impacted major. Courses below must be completed with a minimum grade of “C.”

Communication Studies and Options in Interpersonal & Organizational Communication, and Communication, Culture & Public Affairs.

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
same as SPCH 130 LC SPCH 235		
Fundamentals of Argumentation & Persuasion		3

California State University – Los Angeles

Bachelor of Arts – Communication

Core Requirements

SPCH 100	Fundamentals of Oral Communication	3
SPCH 235	Argumentation and Persuasion	3

Two courses (6 units) from:

SPCH 120	Fundamentals of Interpersonal Communication	3
SPCH 132	Fundamentals of Small Group Communication	3
SPCH 140	Oral Interpretation of Literature	3
SPCH 239	Forensics Workshop	2
SPCH 240	Oral Interpretation: Reader's Theatre	3
ENGL 103	Critical and Argumentative Writing	3
same as ENGL 103 LC		

Complete ENGL 103 as the 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 lower division requirements plus other courses selected in consultation with a counselor to provide for the 18 units minimum and all A.A. 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.

TEACHING CREDENTIAL PREPARATION

CAREER PATHWAY

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 approved Professional Teacher Induction Program thorough an approved school district, county office of education, college or university, consortium or private school. At that point, an application for a Professional Clear

Teaching Credential is submitted through the approved sponsoring Induction Program. For more information, log on to the California Commission on Teaching Credentialing Website at www.ctc.ca.gov and the TEACH California Website www.teachcalifornia.org

SINGLE SUBJECT TEACHING CREDENTIAL

(Primarily for Middle and Secondary Schools)

This credential authorizes public school teaching in specific subjects in a departmentalized classroom such as those in most middle schools or high schools. Teaching in these subjects may be authorized for preschool, kindergarten, grades 1-5, and classes organized primarily for adults.

Future secondary teachers must demonstrate competency in their discipline by either completing a subject preparation program approved by the Commission with a combination of community college and undergraduate university courses or passing the designated California Subject Examination for Teachers (CSET). See a counselor or www.assist.org for course requirement information.

MULTIPLE-SUBJECT TEACHING CREDENTIAL

(Liberal Studies/Elementary School Teaching)

This credential authorizes teaching in a public school self-contained classroom such as the classrooms in most elementary schools. However teaching preschool, kindergarten, grades 1-12, and classes organized primarily for adults may also be assigned.

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 enactment of the No Child Left Behind federal regulations, school districts are requiring a passing score on the California Subject Examination for Teachers (CSET) for all new teachers. 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, 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 studies 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.

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. For test information, log on to www.cbest.nesinc.com

COMMON LOWER DIVISION PREPARATION FOR THE CALIFORNIA STATE UNIVERSITY

See individual CSU's listed below for additional courses.

Biology 120
Child Development 110
English 100
English 103
Earth Science 110
Geography 105 *(Except CSULA)
History 102
History 120 *(Except CSULA, CSUDH)
History 245 *(Except CSULA)
Math 105 (Except CSUF)
Math 110A
Math 110B (Except CSUF)
Music 105 (Except CSLA, CSULB Traditional Curriculum)
Political Science 101
Speech 130
* Select one from CSUF

California State University-Dominguez Hills

Important Notice: Requirements may be updated. New students beginning to take courses for transfer to the Liberal Studies Program should consult with a counselor or contact the Liberal Studies Program for current information at (310) 243-3832 or visit their website at www.csudh.edu/soe/lbs_1/index.htm.

Speech 100,120,130,132, or 150
English 100
English 101
or English 103
Any Plan B Physical Science (ESCI 110, or PS 112 recommended)
Biology 120
Math 105
Math 110A
Math 110B
Art 100 or Theatre 101 and either Music 105 or Dance 101
English 222
History 101, or 102, and 103
Political Science 101 or 201
Geography 105
History 245
Child Development 110
Education/Elementary School Teachers 100+
Education/Elementary School Teachers 200+
+ Courses are restricted to offical Teacher TRAC students only.

Students must select and complete one of the approved options: Anthropology, Art, Dance, Early Teaching and Learning, English Language and Linguistics, English Literature, Human Development, Integrated, Mathematics, Natural Science, Physical Education, Spanish, and Theatre Arts. Log on to the ASSIST website at www.assist.org to view option requirements which can be completed here.

LIBERAL STUDIES (B.A.): INTEGRATED OPTION

This option integrates Liberal Studies subject matter with Teacher Education methods. Majors accepted into the Integrated Option are also accepted into the Teacher Education credentialing program.

California State University - Fullerton

Students can complete requirements to prepare to become an elementary school teacher in multiple ways at CSU Fullerton. They can major in Child and Adolescent Development, Liberal Studies, or other majors and complete the General Education classes that will best prepare them for the CSET examination, as recommended by CSUF's Center for Careers in Teaching (CTC). With completion of a B.A. and other established requirements, they would be ready to enter a two to three semester traditional teaching credential program.

LIBERAL STUDIES

Biology 120 Lab (Recommended)
Child Development 110 (Recommended)
Earth Science 110 Lab (Recommended)
English 100
English 103 (Recommended)
English 106
English 246A, 246B, 230A or 230B (choose one)
English 222 (same as: ENGL 222 LC)
Geography 105 (Recommended)
or History 120 or 245
History 102 (Recommended)
Humanities 100
Math 105
Math 110A or any Math in area B3 Plan B
Music 105
Political Science 101 (Recommended)
Speech 130 (Recommended)

California State University – Los Angeles

Speech 130
Astronomy 101
Biology 120
Chemistry 105 or 100
Child Development 110
Earth Science 110 or Geology 101
English 100
English 102 or 245
English 103
History 102
Math 105
Math 110A
Math 110B
Philosophy 103 or 106 or Speech 235
Physical Education 141
Physical Science 112 or Physics 100
Political Science 101 or 201
Speech 130

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 enrolling 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 website at 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**
 English 102, 230A, 230B, 246A, 246B, 248A, or 248B**
 English 103, Philosophy 103, 106, or Speech 235**
 Geography 105
 History 120
 History 102**
 History 245
 Math 105
 Math 110A**
 Math 110B
 Music 105
 Physical Science 112
 Philosophy 100, 102, or 200
 Political Science 101**
 Speech 130**
 Theatre 101

+Courses are restricted to official Teacher TRAC students only.

++Optional but highly recommended to prepare for the science portion of the CSET exam and/or to add a middle school science authorization.

** Must be completed by the end of the prior Spring semester for Fall admission or by the end of the prior Summer term for Spring admission.

Traditional Curriculum

The following courses meet lower division requirements for the traditional teacher preparation program consisting of a B.A. and yearlong credential program. Teacher TRAC requirements differ from those below.

Biology 120
 Earth Science 110 or Geology 101
 Educational Technology 110
 English 100
 English 102, 230A, 230B, 245, 246A, 246B, 248A, or 248B
 English 103, Philosophy 103, 106, or Speech 235
 Geography 105
 History 102
 History 245
 Math 105
 Math 110A
 Math 110B
 Philosophy 100, 102, or 200
 Physical Science 112
 Political Science 101
 Speech 130
 Theatre 101

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.

University Of California-Riverside

Anthropology 100
 Anthropology 203
 Art 110, 130A, or 136
 Biology 120
 Dance 105
 English 100
 English 101, 103, Philosophy 103, Psychology 103, or Speech 235
 English 106
 English 230A
 English 248A
 Health Education 100
 Geography 101 and 101L
 History 102
 History 245
 History 246
 Math 150+ or Math 114+ and Math 140 (Not UC transferable but when taken with Math 114 will meet major requirement)
 Music 101
 Political Science 101
 Sociology 101
 Theatre 101 or 110
 Women's Studies 101, 205, Anthropology 205, or Psychology 265
 Physics: Complete one UC transferable course in physics (minimum 3 semesters or 4 quarters units)
 Chemistry: Complete one UC transferable course in chemistry (minimum 3 semesters or 4 quarter units)

+ UC Pass limitation. See counselor for details.

For additional information, please check the ASSIST website at www.assist.org.

THEATRE ARTS

TRANSFER MAJOR REQUIREMENTS

LOWER DIVISION MAJOR PREPARATION FOR SPECIFIC TRANSFER INSTITUTIONS

		UNITS
California State University – Dominguez Hills		
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, stage combat, yoga, pilates, and other recreational activities.

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

SPCH 140	Oral Interpretation of Literature	3
TH 101	Introduction to the Theatre	3
TH 110	Fundamentals of Acting	3.5
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

Other Performance and Production emphasis: Directing; playwrighting; and Entertainment Studies.

Additional Concentrations: Liberal Arts and Teaching. Please see a counselor for other emphases, concentrations, and other Bachelor of Fine Arts requirements.

NOTE: Speech 140 (Oral Interpretation of Literature) must be taken to fulfill the GE Requirement for the BFA Degree.

California State University – Los Angeles

DANC 106A	Beginning Ballet	2
DANC 108A	Dance, Modern, Beginning	2
DANC 130	Choreography	2
and DANC 135	Dance Workshop	2
TH 110	Fundamentals of Acting	3.5
TH 114	Voice for Acting	2
TH 145	Costume Production for Dance	1

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

Dance Option

DANC 106A	Beginning Ballet	2
DANC 106B	Intermediate Ballet	2
DANC 108B	Dance, Modern Intermediate	2
DANC 130	Choreography	2
and DANC 135	Dance Workshop	2
TH 110	Fundamentals of Acting	3.5
TH 114	Voice for Acting	2
TH 120	Theatre Stagecraft	3
TH 140	Beginning Jazz Dance	2
TH 141	Intermediate Jazz Dance	2
TH 142	Beginning Tap Dance	2
TH 143	Intermediate Tap Dance	2
TH 145	Costume Production for Dance	1

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

Lower Division Major Preparation:

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

Performance/Acting Emphasis

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

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.

Technical Theatre (Scenery/Costume/Lighting Design) Emphasis

TH 110	Fundamentals of Acting	3.5
TH 120	Theatre Stage Craft	3
TH 123	Stage Make-Up	3
TH 221	Costuming for the Stage	3
TH 222	Stage Lighting	3

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

Theatre, Arts, and Dance

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. There will be no mid-year admissions. Admission requirements include required supplemental materials such as a questionnaire, personal essay, resume, an audition/interview and a writing sample. All applicants must meet the admissions standards of UCLA and the departmental screening process. There will also be a \$50 fee for all auditions/interviews. Applicants may submit materials for consideration in one or more of the following areas: acting, design and production, directing, history and criticism, musical theatre, and playwrighting. Applicants to the school must have a minimum 3.0 GPA at the time of application and must complete their General Education course work prior to entrance. For more information see <http://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 A.A. 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.

WILDLIFE MANAGEMENT AND CONSERVATION

CAREER OPPORTUNITIES:

Wildlife Management
Fish and Game Agencies
Fisheries
Biology

TRANSFER MAJOR REQUIREMENTS

LOWER DIVISION MAJOR PREPARATION FOR HUMBOLDT STATE UNIVERSITY

	UNITS
BIOL 200 Principles of Biology	5
and BIOL 201 Principles of Biology	5
CHEM 110 Elementary Chemistry	5
or CHEM 111* General Chemistry	(5)
and CHEM 112* General Chemistry	5
PHYS 101 General Physics	4
MATH 150 Precalculus Mathematics	4

* If CHEM 111 and CHEM 112 are taken, courses must be taken with a letter grade only. Pass/No Pass will not be accepted. Course must be completed with a grade of "C" or higher. Also, if CHEM 111 and CHEM 112 are taken, PHYS 101 will not be required.

See a counselor for option in Conservation Biology/Applied Vertebrate Ecology.

ZOOLOGY

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 University – Long Beach

(Option within the Biology major)

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)

The Zoology major at CSULB includes an additional lower division course not articulated with Cerritos College. Students interested in transferring to CSULB as Zoology majors may take PHYS 201 and PHYS 202 in lieu of PHYS 101 and PHYS 102.

* After Math 116 an additional math class must be completed at CSULB after transfer.

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
or PSYC 210	Elementary Statistics	(4)
MATH 116	Calculus for Managerial, Biological and Social Sciences	4

The Zoology major at Cal Poly Pomona includes additional lower division courses not articulated with Cerritos College.

University of California – Santa Barbara

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
MATH 112	Elementary Statistics	4
or MATH 240	Calculus and Differential Equations	(4)

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.



VERIFICATIONS OF COMPLETION

ART AND DESIGN

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.

SELECT 11-12 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 107	College Newspaper	3

Plus one course from the following:

ART 182A	Lettering and Typography	3
ART 186	Computer Graphics with Adobe Illustrator	3
BA 110	Advertising	3
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)

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.

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.

LETTERING ARTS

VERIFICATION OF COMPLETION

REQUIRED COURSES	UNITS
ART 180 Calligraphy I	3
ART 181 Calligraphy II	3
ART 287A Letter Arts I	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.

3D ANIMATION FOUNDATION

VERIFICATION OF COMPLETION

REQUIRED COURSES	UNITS
ART 195 3D 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.

AUTOMOTIVE

AUTOMOTIVE COLLISION REPAIR VERIFICATION OF COMPLETION

STRUCTURAL DAMAGE SPECIALIST

AB 51	Non-Structural Repair	4.5
AB 59M	Computerized Measuring Training	1
AB 59P	Structural Repair Planning	2
AB 59U	Unitized Structural Repair Analysis	2
AB 59F	Full Frame Repair Analysis	2
AB 181	Non-Structural Damage Estimating	3
AB 281	Structural Damage Analysis for Estimators	1
AB 282	Steering, Suspension and Powertrain Analysis for Estimators	1
AB 283	Advanced-Frame Analysis for Estimators	1
		—
		17.5

AUTOMOTIVE CUSTOMIZING AND FABRICATION

AB 56	Non-Structural Automotive Welding	2.5
or AB 57	Structural Automotive Welding	(2.0)
AB 75	Body Panel Customizing	4.5
or AB 51	Non-Structural Repair	(4.5)
AB 76	Partial-Panel Fabrication	4.5
AB 77	Full-Panel Fabrication	4.5
		—
		16.0 (15.5)

CUSTOM PAINTING

AB 61	Preparation and Spot Refinishing	3
AB 61L	Automotive Refinishing Lab	1.5
AB 64	Automotive Air Brush Painting	2.5
AB 65	Mix and Adjusting Color	2
AB 66	Lettering, Striping and Design	2.5
AB 67	Automotive Custom Painting	2
		—
		13.5

AUTOMOTIVE DAMAGE APPRAISAL

AB 181	Non-Structural Damage Estimating	3
AB 182	Structural Damages Estimating	3
AB 183	Computerized Damage Estimating	1.5
or AB 83A	Computerized Damage Estimating-Audatex	(1.5)
or AB 83P	Computerized Damage Estimating-Pathways	(1.5)
or AB 83U	Computerized Damage Estimating-Ultramate	(1.5)
AB 188	Introduction to Automotive Claims Handling	2
AB 285	Collision Repair Management	3
AB 287	Advanced Collision Repair Management	2
AB 288	Advanced Automotive Claims	2
		—
		16.5

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

BUSINESS ADMINISTRATION

BUSINESS ADMINISTRATION MINOR

VERIFICATION OF COMPLETION (9 UNITS)

Complete with a grade of Pass 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 A.A. 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.

BUSINESS COMMUNICATIONS OFFICE TECHNOLOGY

BUSINESS COMMUNICATIONS

VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOT 46	Business Communications	3
BCOT 51	Business Oral Communication	1.5
BCOT 96	Microsoft PowerPoint	1.5
BCOT 147	Business Communications	3
BCOT 148	Effective Business Presentations	3
BCOT 150	International Business Communication	3
BCOT 152	Job Search in the Business Field	1.5
		—
TOTAL VERIFICATION OF COMPLETION REQUIREMENTS		16.5

NOTE: Although many of these courses are transferable, this Certificate/

A.A. Degree is nontransferable.

MEDICAL TRANSCRIPTIONIST

VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
BCOT 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

FRONT OFFICE - MEDICAL ENVIRONMENT**VERIFICATION OF COMPLETION****COMPLETION OF ALL THE COURSES LISTED BELOW**

BCOT 71	Computers in the Medical Office	3.5
BCOT 112	Microsoft Word	3.5
or BCOT 131	Beginning College Keyboarding & Documents Processing	(3.5)
BCOT 155	Administrative Secretarial Procedures	4
BCOT 161	Principle of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
		—
TOTAL REQUIREMENTS		15.0

NOTE: 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.

MICROSOFT CERTIFIED APPLICATIONS SPECIALIST (MCAS)**VERIFICATION OF COMPLETION****DIVISION/DEPARTMENT REQUIREMENTS**

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 118	Microsoft Access for Office Technology	1.5
		—
TOTAL REQUIREMENTS		11.5

RECOMMENDED ELECTIVES:

BCOT 95	Microsoft OneNote	1
CIS 155	Microsoft Access	3
CIS 155B	Microsoft Access Expert Level 2	1.5

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.

OFFICE FILE CLERK**VERIFICATION OF COMPLETION****DIVISION/DEPARTMENT REQUIREMENTS**

BCOT 131	Beginning College Keyboarding & Document Processing	3.5
BCOT 152	Job Search in the Business Field	1.5
BCOT 161	Principles of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
		—
TOTAL REQUIREMENTS		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.

OFFICE TECHNOLOGIES**VERIFICATION OF COMPLETION****DIVISION/DEPARTMENT REQUIREMENTS****COMPLETION OF ALL THE COURSES LISTED BELOW**

BCOT 46	Business Communications	3
BCOT 60	Customer Service/Telephone Techniques	1
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 152	Job Search in the Business Field	1.5
BCOT 161	Principles of Filing	1
BCOT 162	Business Spelling and Proofreading Skills	3
		—

TOTAL VERIFICATION OF COMPLETION REQUIREMENTS 17.5

NOTE: Although many of these courses are transferable, this Verification of Completion is non-transferable.

Please see Business Counselors or the respective department chairperson for additional alternatives.

RECEPTIONIST**VERIFICATION OF COMPLETION****DIVISION/DEPARTMENT REQUIREMENTS**

BCOT 60	Customer Service/Telephone Techniques	1
BCOT 152	Job Search in the Business Field	1.5
BCOT 161	Principles of Filing	1
		—
TOTAL REQUIREMENTS		3.5

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.

COMPUTER AND INFORMATION SCIENCES**A+ CERTIFICATION PREPARATION****VERIFICATION OF COMPLETION****REQUIRED COURSES**

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.

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 Information Technology	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.

CYBER SECURITY**VERIFICATION OF COMPLETION**

REQUIRED COURSES		UNITS
CIS 70A	Network Fundamentals	3.5
CIS 70K	Introduction to Wireless Network	3
CIS 70L	Network Security Fundamentals	3.5
CIS 169D	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.

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.

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 iSeries (AS/400)	1.5
CIS 240	iSeries 400 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.

LINUX APPLICATION PRODUCTIVITY**VERIFICATION OF COMPLETION**

REQUIRED COURSES		UNITS
CIS 85	Unix Productivity Tools	3.5
CIS 101	Introduction to Computer Information Systems	3
CIS 214	Unix	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 units.

MICROSOFT SYSTEMS ADMINISTRATOR**VERIFICATION OF COMPLETION**

REQUIRED COURSES		UNITS
CIS 212	Introduction to Microsoft Windows Administration	3.5
CIS 213A	Microsoft Windows Activity Directory Service	3.5
or CIS 213J	Implementing a Microsoft Windows 2003 Active Directory	(3.5)
CIS 213B	Microsoft Advanced Network Infrastructure	3.5
or CIS 213I	Implementing a Windows 2003 Network Infrastructure	(3.5)
CIS 213F	Microsoft 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 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	Network+ Certification	3.5
CIS 70D	Introduction to TCP/IP	1.5
CIS 70E	Router Configurations and Protocol	3.5
CIS 70F	Advanced Switching and Routing	3.5
TOTAL VERIFICATION REQUIREMENTS		15.5

A verification of completion in the Network Administration will be granted by the division upon completion of 15.5 units.

PROJECT MANAGEMENT FOR INFORMATION TECHNOLOGY**VERIFICATION OF COMPLETION**

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
CIS 151	Microsoft Excel for Information Technology	3.5
CIS 201	Systems Analysis and Design	3
CIS 202A	Project Management for Information Technology	3.5
CIS 202B	Microsoft Project	3.5
TOTAL VERIFICATION REQUIREMENTS		13.5

A verification of completion in the Project Management for Information Technology verification will be granted by the division upon completion of 13.5 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
TOTAL VERIFICATION REQUIREMENTS		13

CIS 103 may be replaced by CIS 182 with the approval of the department or the requirement may be met by successfully submitting a requisite clearance request form or a Requisite Clearance Request form.

A verification of completion in the Software Development in C++/Visual C# will be granted by the division upon completion of 13 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 and Web Programming in VB.NET	3
TOTAL VERIFICATION REQUIREMENTS		13.5

A verification of completion in the Software Development Database Application will be granted by the division upon completion of 13.5 units.

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

The CIS 103 requirement may be met by successfully submitting a Requisite Clearance form or a Requisite challenger and waiver form.

A verification of completion in the Software Development in Java will be granted by the division upon completion of 14 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 214	Unix	3.5
TOTAL VERIFICATION REQUIREMENTS		10.5

A verification of completion in the Software Development in the Unix/Linux Environment will be granted by the division upon completion of 14 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 and Web Programming in VB.NET	3
TOTAL VERIFICATION REQUIREMENTS		13

CIS 103 may be replaced by CIS 180 or CIS 182 with the approval of the department, or the requirement may be met by successfully submitting a Requisite Clearance Request form or a Requisite Challenge & Wavier form.

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.

WEB PAGE DEVELOPMENT

VERIFICATION OF COMPLETION

REQUIRED COURSES	UNITS
CIS 103 Computer Programming Logic	3.5
CIS 125 JavaScript for Programmers	1.5
CIS 160 Web Page Development	3.5
CIS 205 Programming HTML for the World Wide Web	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.

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 HTML for the World Wide Web	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.

CAPTIONING CAREERS

CAPTIONING POST-PRODUCTION

VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS	UNITS
CRCC 190A Captioning Video Introduction	2
CRCC 190B Captioning Video Laws and Requirements	1
CRCC 190C Captioning Video for the Web and Video Production	2
CRCC 173 Court Reporting and Captioning Careers Occupational Work Experience	3
TOTAL REQUIREMENTS	8

REALTIME CAPTIONER VERIFICATION OF COMPLETION

DEPARTMENT REQUIREMENTS	UNITS
CRCC 194A Realtime Captioning Level 1	2
CRCC 194B Realtime Captioning Level 2	2
CRCC 194C Realtime Captioning Level 3	3
CRCC 194D Realtime Captioning Level 4	3
CRCC 195 Realtime Captioning Level 5	3
TOTAL REQUIREMENTS	13.0

ENGINEERING DESIGN TECHNOLOGY

VERIFICATION OF COMPLETION

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
TOTAL VERIFICATION REQUIREMENTS	17

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
TOTAL VERIFICATION REQUIREMENTS	17

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
TOTAL VERIFICATION REQUIREMENTS	15

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
TOTAL VERIFICATION REQUIREMENTS	17

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
		—
		17

ENGLISH**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	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."

LAW**LEGAL MINOR****VERIFICATION OF COMPLETION (9 UNITS)**

The Legal Minor may be obtained by completing three of the following core courses with a grade of Pass 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 A.A. 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, private industry, and self-employment.

*This minor does not prepare students for a career as a paralegal. This minor is not approved by the American Bar Association.

MACHINE TOOL TECHNOLOGY**MACHINE TOOL TECHNOLOGY - MASTERCAM VERIFICATION OF COMPLETION**

MTT 51	MasterCam Milling	3.5
MTT 56	CNC Shop Inspection	2.0
MTT 58	Computer-Assisted Inspection Using VeriSurf	3.0
MTT 59	MasterCam Turning	2.5
MTT 61	MasterCam Multi-Axis Milling	1.5
MTT 92L	MasterCam Laboratory	1.0
MTT 278	MasterCam Advanced	3.5
		—
		17.0

MANUFACTURING TECHNOLOGY (MFGT)**VERIFICATION OF COMPLETION REQUIREMENTS**

The three 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 55	Quality Control (QC)	1.5
MFGT 57	Total Quality Management (TQM)	1.5
MFGT 60	Quality Assurance Principles (QA)	1.5
		—
		4.5

QUALITY CONTROL (QC)

MFGT 53	Statistical Process Control (SPC)	1.5
MFGT 55	Quality Control (QC)	1.5
		—
		3.0

STATISTICAL PROCESS CONTROL (SPC)

MFGT 53	Statistical Process Control (SPC)	1.5
MFGT 55	Quality Control (QC)	1.5
MFGT 65	Applied Math for Manufacturing	3
		—
		6.0

TOTAL QUALITY MANAGEMENT (TQM)

MFGT 57	Total Quality Management (TQM)	1.5
MFGT 60	Quality Assurance Principles (QA)	1.5
MFGT 58	Benchmarking	1.5
MFGT 59	Lean Sigma	1.5
		—
		6.0

ISO 9001-2008

MFGT 55	Quality Control (QC)	1.5
MFGT 56	ISO 9001:2008	1.5
MFGT 60	Quality Assurance Principles (QA)	1.5
		—
		4.5

ADVANCED QUALITY SYSTEMS (AQS)

MFGT 53	Statistical Process Control (SPC)	1.5
MFGT 57	Total Quality Management (TQM)	1.5
MFGT 58	Benchmarking	1.5
MFGT 59	Lean Sigma	1.5
		—
		6.0

MATERIALS AND PROCESSES

MFGT 100	Manufacturing Processes	3
PMT 63L	Specialty Plastics Lab	.5
PMT 68	Plastics Materials and Process	2.5
		—
		6.0

MASS COMMUNICATIONS

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 Degree in Broadcast Media. (See Broadcast Journalism Verification of Completion)

Radio/Television Broadcast Announcing		16 UNITS
JOUR 121	Multimedia Reporting	3
RTV 152	Introduction to Broadcasting	3
RTV 155	Radio Production	3
RTV 298	Directed Studies in Radio-TV*	1
or RTV 171	Occupational Work Experience in Radio-TV*	(1)
SPCH 271	Voice and Articulation	3
FILM 102	Television Production	3

*Should be a broadcasting-related internship.

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 - 12 UNITS

JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning Newswriting and Reporting	3
JOUR 121	Multimedia Reporting	3

Plus three units of the following:

JOUR 120	Internet for Journalists	2
JOUR 170	Broadcast News/Webcasting*	1
RTV 175	Sportscasting*	1
RTV 176	Talk Radio Broadcasting*	1

SPCH 100	Fundamentals of Oral Communication	3
SPCH 140	Oral Interpretation of Literature	3
SPCH 240	Oral Interpretation – Reader's Theatre	3
TH 108	Improvisation for the Theatre	3.5
TH 117	Stand-Up Comedy	3
		—
TOTAL		12

*May be applied a maximum of 2 times.

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.

DESKTOP PUBLISHING VERIFICATION REQUIREMENTS - 15 UNITS

Select 12 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 107	College Newspaper	3

Plus one course from the following:

ART 182A	Lettering & Typography	3
ART 186	Computer Graphics with Adobe Illustrator	3
BA 110	Advertising	3
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)

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 - 15 UNITS

JOUR 100	Mass Communications and Society	3
JOUR 101	Beginning Newswriting	3
JOUR 107	College Newspaper	3
JOUR 121	Multimedia Reporting	3
PHOT 110	Introduction to Digital Photography	3
or ART 192	Photoshop/Digital Imaging	(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 UNITS**

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:

BA 110	Advertising	3
JOUR 107	College Newspaper*	3
JOUR 160	College Magazine Production** (can be repeated*)	1
JOUR 298	Directed Studies (maximum 1 unit)	1
JOUR 299	Directed Studies (internship-maximum 2 units)	2

*May be repeated; a maximum of four units may be applied.

**May be repeated; a maximum of two units may be applied.

PHOTOGRAPHY**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 be 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		6

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 Major Requirements, 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

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

ACCT 100	Introduction to Accounting	3
BA 100	Fundamentals of Business	3
BA 110	Advertising	3
BA 113	Legal Environment of Business	3

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		9

PHYSICAL EDUCATION

COACHING VERIFICATION OF COMPLETION

CORE REQUIREMENTS

PE 103	Theory of Coaching	3
HED 200	Nutrition for Health, Fitness, and Physical Activity	3
PE 253	Sport Psychology	3
HED 110	Community First Aid and CPR	3

AND ONE COURSE FROM THE FOLLOWING LIST

PE 150A	Swimming, Beginning	1
PE 150B	Swimming, Intermediate/Advanced	2
PE 151	Wrestling, Beginning	1
PE 154A	Badminton, Beginning	1
PE 154B	Badminton, Intermediate	2
PE 156A	Golf, Beginning	1
PE 156B	Golf, Intermediate	2
PE 159A	Tennis, Intermediate	1
PE 159B	Tennis, Intermediate	2
PE 170	Water Polo	2
PE 171A	Softball, Intermediate	1
PE 171B	Softball, Intermediate	2
PE 172A	Volleyball, Intermediate	1
PE 172B	Volleyball, Intermediate	2
PE 175A	Baseball, Beginning	1
PE 175B	Baseball, Intermediate	2
PE 175A	Basketball, Beginning	1
PE 175B	Basketball, Intermediate	2
PE 177	Flag Football	1
PE 178	Football, Intermediate/Advanced	2
PE 179A	Soccer, Beginning	1
PE 179B	Soccer, Intermediate/Advanced	2
PE 200	Baseball	3
PE 201	Baseball Off-Season Conditioning	2
PE 202	Basketball, Men's	3
PE 204	Basketball, Women's	3
PE 206	Cross Country, Men's	3
PE 207	Cross Country Conditioning	1
PE 208	Cross Country, Women's	3
PE 210	Football, Men's	3
PE 213	Intercollegiate Golf	3
PE 217	Soccer, Men's	3
PE 219	Soccer, Women's	3
PE 221	Softball, Women's	3
PE 222	Softball Pre-Season Conditioning	1
PE 223	Swimming, Men's	3
PE 225	Swimming, Women's	3
PE 227	Tennis, Men's	3
PE 228	Tennis Conditioning	1
PE 229	Tennis, Women's	3
PE 231	Track & Field, Men's	3
PE 233	Track & Field, Women's	3
PE 234	Track & Field Conditioning	1
PE 235	Volleyball, Women's	3
PE 236	Volleyball Pre-Season Conditioning	1
PE 238	Wrestling Off-Season Training	1
PE 239	Water Polo, Men's	3
PE 241	Water Polo, Women's	3
PE 243	Wrestling	3

PLASTICS/COMPOSITES

MANUFACTURING TECHNOLOGY (PMT)

VERIFICATIONS 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 4.5 to 8 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 and Processes	2.5
PMT 100	Plastics Technology	2.5
		—
		5.5

Inspection and Testing Specialty

MFGT 54	Ultrasonic Level 1 Testing	1.5
PMT 63L	Specialty Plastics Lab	.5
PMT 68	Plastics Materials and Processes	2.5
		—
		4.5

Injection Molding Specialty

PMT 59	Injection Molding I	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 100	Plastics Technology	2.5
		—
		5.5
		6 (5.5)

Fiberglass Specialty

PMT 61	Fiberglass Technology	2.5
PMT 63L	Specialty Plastics Lab	.5
PMT 67	Fiberglass Production	2.5
or PMT 76	Vacuum Infusion Process (VIP) Resin Transfer	(3.0)
		—
		5.5 (6.0)

Composites Specialty

PMT 61	Fiberglass Technology	2.5
PMT 67	Fiberglass Production	2.5
PMT 70	Composites Technology	2.5
		—
		7.5

Composite Technician Specialty

PMT 51	Composites Fabrication	2.5
PMT 53	Composites Repair	2.5
PMT 63L	Specialty Plastics Lab	0.5
or PMT 5	Survey of Composites	(1.5)
PMT 70	Composites Technology	2.5
		—
		8.0 (9.5)

Fiberglass/Composite Repair Specialty

PMT 53	Composite Repair	3
PMT 61	Fiberglass Technology	2.5
PMT 67	Fiberglass Production	2.5
		—
		8

Tooling Specialty

PMT 58	Industrial Design for Plastics	2.5
or PMT 221	Modelmaking	(2.5)
PMT 63L	Specialty Plastics Lab	.5
or PMT 55	Prototyping	(1.0)
PMT 72	Tooling for Plastics	2.5
		—
		5.5 (6.0)

Industrial Design Specialty

PMT 55	Prototyping	1.0
or PMT 63L	Specialty Plastics Lab	(0.5)
PMT 58	Industrial Design for Plastics	2.5
PMT 221	Modelmaking	2.5
		—
		6.0 (5.5)

SIGN LANGUAGE

CAREER OPPORTUNITIES:

Interpreter
Instructor
Translator

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.

THEATRE ARTS

ENTERTAINMENT TECHNOLOGY

OCCUPATIONAL PROGRAM

VERIFICATION OF COMPLETION

DIVISION/DEPARTMENT REQUIREMENTS		UNITS
TH 223	Portable Entertainment Technology - Lighting	3
TH 224	Portable Entertainment Technology - Audio & Staging	3
TH 225	Portable Entertainment Production	2
MUS 146	Recording Techniques	2
		—
TOTAL REQUIREMENTS		10

WOODWORKING MANUFACTURING TECHNOLOGIES

VERIFICATION OF COMPLETION

CNC WOODWORKING

WMT 151	Introduction to Faceframe Cabinetmaking	4
WMT 153	32mm System of Cabinetmaking	4
WMT 181	Introduction to Computer Operations for Cabinetmaking and Design	3
WMT 185	CNC Woodworking	3
		—
		14

ARCHITECTURAL MILLWORK

WMT 151	Introduction to Faceframe Cabinetmaking	4
WMT 155	Architectural Millwork	4
WMT 258	Mantels and Wall Systems	4
		—
		12

HAND TOOLS

WMT 101	Introduction to Woodworking	3
WMT 108	Wood Carving for Furniture	2.5
WMT 201	Woodworking with Hand Tools	4
WMT 235	Windsor Chair	3
WMT 241	Special Topics in Handtools	2
		—
		14.5



NON-CREDIT CERTIFICATES

NON-CREDIT CERTIFICATE OF COMPLETION OF COURSES IN BUILDING TRADES AND CONSTRUCTION INDUSTRY PRE APPRENTICESHIP

CAREER OPPORTUNITIES:

Provides preparation for entry into apprenticeship programs in the building trades.

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

AED 36.02	Introduction to the Building Trades and Construction Industry
AED 36.03	Basic Reading Skills for the Building Trades and Construction Industry
AED 36.04	Basic Math Skills for the Building Trades and Construction Industry
AED 36.05	Introduction to Basic Welding for the Building Trades and Construction Industry

TOTAL CERTIFICATE REQUIREMENTS:

4 Courses

NON-CREDIT CERTIFICATE OF COMPLETION IN GED TEST PREPARATION IN ENGLISH

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

AED 42.12 GED Preparation – A
AED 42.13 GED Preparation – B

CAREER OPPORTUNITIES:

In today's workforce having a GED certificate or high school diploma is required for many employment positions. In addition, basic skills are necessary to maintain most sustainable wage jobs.

CAREER PATHWAYS:

These two courses will prepare the student to pass the GED examination consisting of social studies, science, English and math.

NON-CREDIT CERTIFICATE OF COMPLETION IN VOCATIONAL ENGLISH AS A SECOND LANGUAGE

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

AED 42.14 Low Beginning English as a Second Language
AED 42.15 High Beginning English as a Second Language
AED 49.02 Vocational English as a Second Language

CAREER OPPORTUNITIES:

This sequence of courses provides students with a basic working knowledge of the English language and English specific to a vocational field and better employment opportunities.

CAREER PATHWAYS:

Allows students who choose to transition to the credit vocational programs at Cerritos College where they may obtain an AA Degree or certificate.

NON-CREDIT CERTIFICATE OF COMPLETION IN GED TEST PREPARATION IN SPANISH

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

AED 42.10 Spanish GED Test Preparation – A
AED 42.11 Spanish GED Test Preparation – B

CAREER OPPORTUNITIES:

In today's workforce having a GED certificate or high school diploma is required for many employment positions. In addition, basic skills are necessary to maintain most sustainable wage jobs.

CAREER PATHWAYS:

These two courses will prepare the student to pass the GED examination consisting of social studies, science, English and math.

NON- CREDIT CERTIFICATE OF COMPLETION IN ENGLISH AS A SECOND LANGUAGE

CERTIFICATE OF ACHIEVEMENT

DIVISION/DEPARTMENT REQUIREMENTS

AED 42.03 Survival English as a Second Language
AED 42.14 Low Beginning English as a Second Language
AED 42.15 High Beginning English as a Second Language
AED 42.16 Low Intermediate English as a Second Language
AED 42.47 High Intermediate English as a Second Language

CAREER OPPORTUNITIES:

This sequence of courses prepares students to have a working knowledge of basic English skills that will facilitate job interviews and better employment opportunities.

CAREER PATHWAYS:

Upon completion of the sequence of courses students are prepared to transition to credit ESL course or credit programs at Cerritos.



Course Descriptions

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.

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, HUMANITIES, AND SOCIAL SCIENCES DIVISION

(562) 860-2451 EXT. 2715

Accounting
Administration of Justice
Anthropology
Business Administration
Business Communications Office Technology
Court Reporting and Captioning Careers
Economics
Education/Elementary School Teaching
Finance
History
Insurance
Interdisciplinary Studies
Law (Paralegal)
Philosophy
Political Science
Psychology
Real Estate
Sociology
Women's Studies

COUNSELING & GUIDANCE DIVISION

(562) 860-2451 EXT. 2126

Counseling & Guidance

DISABLED STUDENT PROGRAMS & SERVICES

(562) 860-2451 EXT. 2335

Access Learning

FINE ARTS & COMMUNICATIONS DIVISION

(562) 860-2451 EXT. 2600

Art and Design
Film
Humanities
Journalism
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

HEALTH, PHYSICAL EDUCATION, DANCE/ATHLETICS DIVISION

(562) 860-2451 EXT. 2862

Dance
Health Education
Physical Education/Athletics

INNOVATION AND ACADEMIC SUPPORT

(562) 860-2451 EXT. 2797

Educational Technology

LIBERAL ARTS DIVISION

(562) 860-2451 EXT. 2858

Chinese
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
Geography
Geology
Mathematics
Microbiology
Physical Science
Physics
Zoology

TECHNOLOGY DIVISION

(562) 860-2451 EXT. 2900

Architecture
Automotive Collision Repair
Automotive Mechanical Repair
Cosmetology
Engineering Design Technology
Engineering Technology
Machine Tool Technology
Manufacturing Technology
New Product Development
Plastics Manufacturing
Welding
Woodworking Manufacturing Technologies

ACCESS LEARNING

DISABLED STUDENTS PROGRAMS & SERVICES (DSPS)

ACLR 86 **INTRODUCTION TO UNIVERSAL** **DESIGN FOR LEARNING** **2.0 UNITS**

Class hours: 2.0 Lecture

Students will be introduced to the history and principles of Universal Design, the broad range of human abilities, and numerous real-world examples of designs that satisfy the principles. By the end of the course, students should have an appreciation for the diversity of the human race and be able to recognize universal design, as well as unnecessary obstacles that may be designed into products and environments when usability is not considered. This course is designed for students with learning, physical, communicative, or other disabilities, as well as for those who want to enhance their understanding of universal design principles to apply to teaching and learning environments.

ACLR 87 **USING SCAN-READ** **TECHNOLOGY IN UDL** **2.0 UNITS**

Class hours: 2.0 Lecture

Recommendation: Completion of ACLR 86 or equivalent with a grade of Pass or "C" or higher.

This course is designed to teach the principles of Universal Design for Learning (UDL) using scan-and-read programs to facilitate the development of collegiate reading and writing skills. The assistive technology is used as a way to close the achievement gap between students with disabilities and their non-disabled peers. Students will learn to customize the software to assist all students' needs and learning preferences. This course is appropriate for students with learning, physical, communicative, or other disabilities, as well as for students who want to enhance their learning skills by incorporating the principles of universal design to assistive technology scan and read software.

ACLR 88 **USING VOICE RECOGNITION** **TECHNOLOGY IN UDL** **2.0 UNITS**

Class hours: 2.0 Lecture

Recommendation: Completion of ACLR 86 or equivalent with a grade of Pass or "C" or higher.

This course is designed to teach the principles of Universal Design for Learning (UDL) using voice recognition software, such as Dragon Naturally Speaking, to facilitate the development of collegiate reading and writing skills. The technology is used as a way to close the achievement gap between students with disabilities and their non-disabled peers. The voice recognition software can be customized to assist all students' needs and learning preferences. This course is appropriate for students with learning, physical, communicative, or other disabilities, as well as for students who want to enhance their learning through incorporating the universal design principles using assistive technology.

ACLR 89 **BUILDING PERCEPTUAL** **REASONING SKILLS IN UDL** **2.0 UNITS**

Class hours: 2.0 Lecture

Recommendation: Completion of ACLR 86 or equivalent with a grade of Pass or "C" or higher.

This course is designed to teach the principles of Universal Design for Learning (UDL) using assistive technology programs to facilitate the development of perceptual reasoning and critical thinking skills. The technology is used as a way to close the achievement gap between students with disabilities and their non-disabled peers. Students will learn to customize the software according to their unique needs and learning preferences. This course is appropriate for students with learning, physical, communicative, or other disabilities as well as for those who want to gain skills and enthusiasm for learning incorporating the UDL principles through technology targeted toward building perceptual reasoning skills.

ACLR 90 (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.

ACLR 91 (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.

ACLR 92 (Not Degree Applicable) **PERSONAL ASSESSMENT FOR THE** **STUDENT WITH DISABILITIES** **1.0 UNIT**

Class hours: 1.0 Lecture

Prerequisite: ACLR 90 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.

ACCOUNTING

(BUSINESS, HUMANITIES, AND **SOCIAL SCIENCES DIVISION)**

ACCT 1T (Not Degree Applicable) **ACCOUNTING** **MICROCOMPUTER LAB** **0.5 UNIT**

Class hours: 2.0 Laboratory

Open Entry/Open Exit

Corequisite: Enrollment in one or more Accounting or Finance course.

This course is designed to provide individual lab 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.

ACCT 2T (Not Degree Applicable) **ACCOUNTING LAB** **0.5 UNIT**

Class hours: 2.0 Laboratory

Open Entry/Open Exit

Corequisite: ACCT 100, ACCT 101, or ACCT 102.

This course is designed to provide individualized lab instruction with assigned problems and practice sets for introductory accounting students. This course may be taken a maximum of 4 times.

Course Descriptions

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.

ACCT 60 QUICKBOOKS ACCOUNTING 1.5 UNITS

Class hours: 1.5 Lecture

Recommendation: Students in Accounting or Finance courses are strongly recommended to enroll in a section of ACCT 1T.

This course introduces QuickBooks 6.0, a complete accounting software system for small businesses.

ACCT 61 TURBO TAX ACCOUNTING 1.5 UNITS

Class hours: 1.5 Lecture

Recommendation: Students in Accounting or Finance courses are strongly recommended to enroll in a section of 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.

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.

Transfer Credit: CSU

ACCT 101 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.

Transfer Credit: CSU; UC

ACCT 102 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.

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.

Transfer Credit: CSU

ACCT 131 COMPUTERIZED ACCOUNTING - IBM 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.

Recommendation: Students in Accounting or Finance courses are strongly recommended to enroll in a section of ACCT 1T.

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.

Transfer Credit: CSU

ACCT 133 SPREADSHEET ACCOUNTING I 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ACCT 100 or equivalent with a grade of Pass or "C" or higher.

Recommendation: Students in Accounting or Finance courses are strongly recommended to enroll in a section of ACCT 1T.

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.

Transfer Credit: CSU

ACCT 134 SPREADSHEET ACCOUNTING II 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ACCT 101 and ACCT 133 or equivalent with grades of Pass or "C" or higher.

Corequisite: ACCT 1T.

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.

Transfer Credit: CSU

Course Descriptions

ACCT 171

ACCOUNTING OCCUPATIONAL WORK EXPERIENCE

1.0 UNIT

Class hours: 1.0 Work Experience

One unit of Accounting 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

ACCT 172

ACCOUNTING OCCUPATIONAL WORK EXPERIENCE

2.0 UNITS

Class hours: 1.0 Work Experience

Two units of Accounting 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. Work experience courses

may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

ACCT 173

ACCOUNTING OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience

Three units of Accounting 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 until their participatory assignments and semester work projects have been approved. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

ACCT 174

ACCOUNTING OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

Four units of Accounting Occupational Work Experience require 240 hours of non-paid 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 until their participatory assignments and semester work projects have been approved. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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.

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 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.

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.

Course Descriptions

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.

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.

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.

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.

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.

Transfer Credit: CSU

ACCT 251 ADVANCED 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.

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.

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.

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). 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 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 (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

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

AJ 71 FIRST AID-ADMINISTRATION OF JUSTICE 2.0 UNITS

Class hours: 2.0 Lecture

Recommendation: An English Placement score into ENGL 100 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 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

Recommendation: An English Placement score into ENGL 100 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 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 INTRODUCTION TO ADMINISTRATION OF JUSTICE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: An English Placement score into ENGL 100 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 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 CONCEPTS OF CRIMINAL LAW 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: An English Placement score into ENGL 100 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 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

Recommendation: An English Placement score into ENGL 100 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 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

Recommendation: An English Placement score into ENGL 100 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 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

Recommendation: An English Placement score into ENGL 100 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 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 CORRECTIONS, PROBATION AND PAROLE 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: An English Placement score into ENGL 100 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 provides a history of and critical analysis of punishment, the various types of punishment, alternatives to punishment, and

Course Descriptions

the impact of punishment on the Criminal Justice System, corrections; a critical examination of the types of correctional institutions and the clients housed in each institution; and an examination of contemporary correctional issues. An introduction to the principles of probation, parole and community corrections as a governmental function within the federal, state and local criminal justice, systems is explored in addition to the relationships between the law enforcement, judicial and correctional communities between arrest and final disposition.

Transfer Credit: CSU

AJ 110

PATROL PROCEDURES AND ENFORCEMENT TACTICS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: An English Placement score into ENGL 100 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 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 173

ADMINISTRATION OF JUSTICE OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week for Administration of Justice Work Experience 173. The employment must be in a job related to the student's educational goal.

Prerequisite: 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. Students who are not employed but wish to gain work experience may be placed in a non-paying position if such opportunities are available. Work experience courses may be

taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

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.

Recommendation: An English Placement score into ENGL 100 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 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

Recommendation: An English Placement score into ENGL 100 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 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 220

CRIMINAL INVESTIGATION

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: An English Placement score into ENGL 100 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 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

AJ 221

NARCOTICS AND VICE CONTROL

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: An English Placement score into ENGL 100 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 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

Recommendation: An English Placement score into ENGL 100 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 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).

Course Descriptions

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 (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, MATH 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

HUMAN ANATOMY

5.0 UNITS

Class hours: 3.0 Lecture/6.0 Laboratory

Prerequisite: A four unit college level biological science with lab course with a grade of Pass or "C" or higher.

Recommendation: ENGL 100 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 structure and function of cellular, tissue, organ, and systems levels. This course is one of the courses that satisfies the requirements of majors in four-year Nursing Programs, Physical Therapy, PE/Kinesiology, Dental Hygiene, and related fields.

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

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. This 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.*

Course Descriptions

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). 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 (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

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

ANTH 100

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 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

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 with a grade of Pass or "C" or higher 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 coordinated laboratory experience with ANTH 115.

Transfer Credit: CSU; UC

ANTH 120

INTRODUCTION TO

ARCHAEOLOGY

(CAN ANTH 6)

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 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

Course Descriptions

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 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). 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 (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: 1.0 Work Experience

Class hours: One (1) hour control class each week plus 15 hours of employment per week for Architectural Drawing Work Experience 43. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

ARCH 44 (Not Degree Applicable)

ARCHITECTURAL DRAWING OCCUPATIONAL

WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

Class hours: One (1) hour control class each week plus 20 hours of employment per week for Architectural Drawing Work Experience 44. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be

Course Descriptions

taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 (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

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

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 114 GREEN ARCHITECTURE AND LEED 3.0 UNITS

Class hours: 3.0 Lecture
This course is an introduction to sustainable architecture and Leadership in Energy and Environmental Design (LEED). Exercises emphasize the development of basic skills used in the design of environmentally friendly architectural projects. Focus is on the investigation of the relationship between planetary concerns, energy, indoor air, quality, site selection, building orientation, and alternative construction techniques.
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
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

ARCH 123 INTRODUCTION TO 2-D 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 the latest software updates. This course may be taken a maximum of 2 times.
Transfer Credit: CSU

ARCH 212 ARCHITECTURAL DESIGN THEORY I 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
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

ARCH 213 INTRODUCTION TO 3-D COMPUTER AIDED DRAFTING 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory
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

Course Descriptions

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 the latest software updates. This course may be taken a maximum of 2 times

Transfer Credit: CSU

ARCH 221 AUTOCAD ARCHITECTURE 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

This course provides an introduction to the production of three-dimensional building design models and working drawings using AutoCAD Architecture 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 AutoCAD Architecture. Students who repeat this course will improve skills through further practice and remain current with the 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 REVIT ARCHITECTURE 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

This course provides an introduction to the production of parametric three-dimensional

building models and working drawings using Revit Architecture 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 Architecture. 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 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). 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 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 (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/COMMUNICATIONS 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 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 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

Course Descriptions

ART 102

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 AMERICA 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; UC

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; UC

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-Columbian 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

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 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

Course Descriptions

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 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 113 ART, SCIENCE, & TECHNOLOGY IN CULTURE AND SOCIETY 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 intersections between art, science, and technology, as well as their broader impact on, and interaction with, visual and material culture. Areas of focus will include the social impact of scientific innovations, technology-driven art, and art/science collaborative projects, including discussions of code-based and algorithmic art, data visualization, robotic and interactive art, machine aesthetics, body modification and cyborg experiments, ecological and environmental art, conceptual

Internet projects, culture jamming and hacktivist art, game art and virtual reality, surveillance art, and tele-presence and locative media.

Transfer Credit: CSU

ART 114 STORYBOARDING & ANIMATION PRINCIPLES FOR FILM 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
This course looks at visual storytelling techniques using storyboards and the principles of animation to effectively communicate a story through pre-visualization and hand drawing of sequences for a live-action production, graphic novel illustration or a character-based animation project. (This course is not open to students who are enrolled in or who have received credit in FILM 114.)

Transfer Credit: CSU

ART 115L PRINTMAKING LAB 1.0 UNIT

Class hours: 3.0 Laboratory
Corequisite: Concurrent enrollment in ART 116 or ART 117

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), screen printing, collagraphy, embossing, and monotype. The course will increase the skill and creative output of the student in areas of his/her choice. This class may be taken a maximum of 4 times.

Transfer Credit: CSU; UC

ART 116 BEGINNING PRINTMAKING 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 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

ART 121 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

ART 130A 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

Course Descriptions

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 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 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 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 a maximum of 2 times.

Transfer Credit: CSU

ART 150 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 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. Emphasis is on the use of complex hand-forming techniques. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

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 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 152 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 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 a maximum of 2 times.
Transfer Credit: CSU; UC

ART 156L CERAMICS LAB 1.0 UNIT

Class hours: 3.8 Laboratory
Open Entry/Open Exit
Corequisite: One or more of the following courses: ART 150, ART 151, ART 152, ART 155, ART 252, ART 253 or ART 255.
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 a maximum of 4 times.
Transfer Credit: CSU; UC

ART 162 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 a maximum of 2 times.
Transfer Credit: CSU; UC

ART 171 OCCUPATIONAL WORK EXPERIENCE IN ART 1.0 UNIT

Class hours: 1.0 Work Experience
One unit of Occupational Work Experience in Art 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.
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 letter forms, 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 a maximum of 2 times.
Transfer Credit: CSU

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 letter forms in addition to the continued study of the historical development of letter forms, 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 letter forms in their contemporary usage. This course may be taken 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

Course Descriptions

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 letter forms 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 letter forms, 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 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 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 letter forms will be stressed in their contemporary usage. This course may be taken 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 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 hand-on software tutorials. This course may be taken 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 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.

Course Descriptions

Students will animate and render a short narrative as the final project. This course may be taken 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 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 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 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 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 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 a maximum of 2 times.

Transfer Credit: CSU; UC

Course Descriptions

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 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 ART 218 or ART 219.

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), screen printing, collagraphy, embossing, and monotype, and integration of digital imagery 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 class may be taken 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 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 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 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 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 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 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 a maximum of 2 times.

Transfer Credit: CSU; UC TBD 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.

Course Descriptions

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 a maximum of 2 times.

Transfer Credit: CSU; UC

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 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 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 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 is designed for individualized study by the ceramist with at least three semesters of prior experience at the college level. Students will be expected to write a proposal for work to be accomplished during the semester. Clay technology and kiln firing technique will be introduced. This course may be taken 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 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 stonecarving techniques. This course may be taken 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 letter forms 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 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 letter form styles. Students will develop the ability to modify historical styles of letter forms 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 a maximum of 3 times.

Transfer Credit: CSU

Course Descriptions

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). 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 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 (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, MATH DIVISION)

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.*

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.*

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). 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 (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 is an introduction to the collision repair trade. Emphasis is on safe removal and replacement of external panels, bumpers, lights, and trim. Discussion and demonstration of automotive welding will be introduced. Repair of minor body panel dents, finish preparation concepts, and the safe use of power and hand tools will be covered. This course may include I-CAR Live curriculum.

AB 52 STRUCTURAL DAMAGE REPAIR 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Recommendation: AB 51 or AB 57 or equivalent with a grade of Pass or "C" or higher.

This course introduces students to structural repair of collision-damaged vehicles. Major emphasis is placed on analysis, measuring, and repair of structural damage and welding of full-frame, space frame, and unitized vehicles. Various methods of measuring and repairing structural damage will be utilized including universal, electronic, and dedicated bench systems. This course may include I-CAR Live curriculum.

AB 53 STEERING, SUSPENSION AND POWERTRAIN DAMAGE 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Recommendation: AB 51 or equivalent with a grade of Pass or "C" or higher.

This course introduces students to steering and suspension control point alignment, steering and suspension systems, and power train problems related to automotive collisions. Related topics include structural measuring and repair systems and methodology, welding, and metallurgical experience and an introduction to electrical and electronic systems. I-CAR Live curriculum may be included in course delivery.

AB 54 ADVANCED-DESIGN PANEL REPAIR 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Recommendation: AB 51 or AB 56 or AB 57 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes repair and replacement of advanced-design automotive panels. Topics include the repair, replacement, and joining of High-Strength Steel (HSS), Ultra Lightweight Steel Auto Body (ULSAB) panels, Ultra High-Strength Steel, Advanced High-Strength Steel, aluminum, composites, plastics, and other innovative materials used in automotive construction. I-CAR Live curriculum may be included in course delivery.

AB 55 STRUCTURAL PANEL REPLACEMENT 4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Recommendation: AB 51 or AB 52 or AB 56 or AB 57 or equivalent with a grade of Pass or "C" or higher.

This course emphasizes repair and replacement of structural panels, removal, and replacement of power train and supports, gauging and analysis of major structural damage, and the measurement and alignment of strut towers. I-CAR Live curriculum may be included in course delivery.

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 students presently employed or soon to be employed in the automotive field. Related subjects include welding, safety, testing of weld joints, material design, and 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. I-CAR Live curriculum may be presented during course delivery. This course may be taken a maximum of 2 times.

AB 57 STRUCTURAL AUTOMOTIVE WELDING 2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory

Recommendation: AB 56 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment or appropriate work experience.

This course specializes in structural automotive welding. Special emphasis will be placed upon Gas Metal Arc Welding (GMAW) and resistance spot welding of structural high strength steel, ultra high-strength steel (UHSS), boron steel, martensitic steel, laminated 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. I-CAR Live learning modules may be included in course delivery. This course may be taken a maximum of 2 times.

AB 58L COLLISION REPAIR LAB 1.5 UNITS

Class hours: 5.0 Laboratory

Prerequisite: AB 51 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment or appropriate work experience.

This course allows students to perfect and hone skills obtained in prerequisite courses. In this course, students will select and repair a project vehicle of their choosing relevant to the subject material being taught. This course may be taken a maximum of 4 times. *Transfer Credit: CSU*

AB 59F FULL FRAME REPAIR ANALYSIS 2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory

Recommendation: AB 59M or AB 59P or equivalent with a grade of Pass or "C" or higher.

The course is designed for shop and damage estimating personnel who want to learn full-frame damage and structural repair analysis. Included topics are full-frame vehicle design analysis, effects of collisions on various full-frame designs, full-frame damage assessment using universal and electronic measuring gauges, full-frame vehicle hook-up and repair options, and methods of determining repair completion with universal and electronic measuring devices. Chief Automotive Systems, Inc. methodology is used in course delivery.

Course Descriptions

AB 59M

COMPUTERIZED

MEASURING TRAINING

2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory

Recommendation: AB 51 or equivalent with a grade of Pass or "C" or higher.

This course develops the skills in the operation and use of computer measuring systems to measure structural automotive damage. 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 electronic measuring systems. Topics include basic collision theory, damage analysis fundamentals, maintenance, and operation of electronic measuring systems. The processes and methods used within each measuring system will be discussed extensively.

AB 59P

STRUCTURAL

REPAIR PLANNING

2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory

Recommendation: AB 51 or AB 59M or equivalent with a grade of Pass or "C" or higher or appropriate work experience. Current or previous employment in a collision repair facility.

This entry-level course introduces students to the concepts of damage analysis and repair planning for structurally damaged vehicles. It is designed for collision repair technicians and students with little or no 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 and full-frame vehicles.

AB 59U

UNITIZED STRUCTURAL

REPAIR ANALYSIS

2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory

Recommendation: AB 59M or AB 59P or equivalent with a grade of Pass or "C" or higher.

This course is designed for damage estimating personnel who want to learn about analysis and repair of unitized structural damage using universal gauge and electronic measuring systems. Topics include unitized structural design analysis and effects of vehicle collisions, additional unitized vehicle hook-up and repair options,

and precise methods of determining that the repaired vehicle is within factory design specification using electronic and universal gauges.

AB 61

PREPARATION AND

SPOT REFINISHING

3.0 UNITS

Class hours: 3.0 Lecture

Corequisite: AB 61L or equivalent with a grade of Pass or "C" or higher.

Recommendation: AB 51 or equivalent with a grade of Pass or "C" or higher.

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. I-CAR training modules may be included in course delivery.

AB 61L

AUTOMOTIVE

REFINISHING LAB

1.5 UNITS

Class hours: 5.0 Laboratory

Prerequisite: AB 61 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment.

This course allows students to develop and improve hands-on skills in preparation and spot refinishing by completing automotive refinishing projects. Students will identify and select specific automotive painting projects relevant to the subject matter. This course may be taken a maximum of 4 times.

AB 62

OVERALL AND

MULTI-COAT REFINISHING

4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Recommendation: AB 51 or AB 61 or equivalent with a grade of Pass or "C" or higher.

This course develops the skills in 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 Live curriculum may 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

Recommendation: AB 61 or AB 62 or equivalent with a grade of Pass or "C" or higher.

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, colors, and types. This course provides students with hands-on techniques for increasing the volume of vehicles processed in the professional automotive refinishing environment. I-CAR Live curriculum may be presented during this course of study. This course may be taken a maximum of 2 times.

AB 64

AUTOMOTIVE AIR

BRUSH PAINTING

2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

Recommendation: AB 61 or equivalent with a grade of Pass or "C" or higher or related work experience.

This course introduces students to the art of air brush painting and related effects in automotive applications. Students work with various colors and techniques to create special effects on commercial and passenger vehicles using air brushes. Included are 3-D effects, mural painting, accenting other types of graphic art, and portrait painting on automotive surfaces.

AB 65

MIX AND ADJUSTING COLOR

2.0 UNITS

Class hours: 1.5 Lecture/2.5 Laboratory

Recommendation: AB 61 or equivalent with a grade of Pass or "C" or higher.

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, spray-out panels, let-down panels for multi-coat matches, troubleshooting of materials, and paint chemistry. I-CAR curriculum may be presented during course delivery. This course may be taken a maximum of 3 times.

Course Descriptions

AB 66

LETTERING, STRIPING AND DESIGN

2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory

Recommendation: AB 61 or equivalent with a grade of Pass or "C" or higher or appropriate work experience or concurrent enrollment.

This course trains students in the arts of automotive lettering, graphics 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, and hand pin-striping, and lettering. I-CAR curriculum may be included in course delivery. This course may be taken a maximum of 2 times.

AB 67

AUTOMOTIVE CUSTOM PAINTING

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Recommendation: AB 61 or AB 62 or equivalent with a grade of Pass or "C" or higher.

This is a custom automotive painting course that focuses on building hands-on skills in creating special paint effects, including flames, scallops, checkerboards, shredding, murals, holographic effects, multi-coats, and pearl finishes on automobiles. It includes theory and lab. This course may be taken a maximum of 2 times.

AB 68L

REFINISHING LAB

1.5 UNITS

Class hours: 5.0 Laboratory

Prerequisite: AB 61 or equivalent with a grade of Pass or "C" or higher or appropriate work experience or concurrent enrollment.

This course increases student skills in automotive refinishing. Students hone their skills and improve their speed by completing automotive refinishing projects. I-CAR curriculum may be included in course delivery. This course may be taken a maximum of 4 times. (Formerly AB 68)

AB 73

AUTOMOTIVE COLLISION REPAIR OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week for Automotive Collision Repair Work Experience 73. The

employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

AB 74

AUTOMOTIVE COLLISION REPAIR OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 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.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

AB 75

BODY PANEL CUSTOMIZING

4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Recommendation: AB 51 and AB 56 or equivalent with grades of Pass or "C" or higher or appropriate work experience.

This is an entry level course that focuses on the modification of automotive body panels. Additional topics include customization of existing body panels, partial-panel fabrication, metal finishing, rust-out panel replacement, welding techniques and the application and use of the sheet metal brake, sheer, shrinker/stretcher, and bead roller.

AB 76

PARTIAL-PANEL FABRICATION

4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Prerequisite: 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.

AB 77

FULL-PANEL FABRICATION

4.5 UNITS

Class hours: 3.0 Lecture/5.0 Laboratory

Recommendation: AB 51 or AB 75 and AB 56. This course focuses on full-panel sheet metal design and fabrication. 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, including the assembly of separate complex pieces into one panel. Included are the continued application and use of advanced sheet metal fabrication tools and equipment.

AB 79L

AUTOMOTIVE FABRICATION LAB

1.5 UNITS

Class hours: 5.0 Laboratory

Prerequisite: AB 75 or AB 76 or AB 77 or equivalent with a grade of Pass or "C" or higher or appropriate work experience or concurrent enrollment.

This course allows students to hone hands-on skills while completing automotive body panel fabrication project. Students will identify and select specific projects focusing on needed improvement. This course may be taken a maximum of 4 times.

Course Descriptions

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, time scheduling, business ethics, and the completion of paperwork related to autobody customer service positions. I-CAR training may be included in course delivery. This course may be taken a maximum of 2 times.

AB 83A COMPUTERIZED DAMAGE ESTIMATING - AUDATEX

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 Audatex collision damage estimating software. Students will learn to properly identify vehicles, components, and systems and how 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 Audatex software program will be reviewed extensively. This course may be taken a maximum of 2 times.

AB 83P COMPUTERIZED DAMAGE ESTIMATING - PATHWAYS

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 Pathways collision damage estimating software. Students will use the application to properly identify vehicles, components, and systems, and how 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 Pathways software program will be reviewed extensively. This course may be taken a maximum of 2 times.

AB 83U COMPUTERIZED DAMAGE ESTIMATING-ULTRAMATE

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 Ultramate damage estimating software. Students will learn to properly identify vehicles, components and systems, and to select and input the appropriate replacement parts and labor costs into an Ultramate 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 Ultramate 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

Recommendation: Work experience in the automotive collision repair industry.

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 production controls for management. I-CAR Live training modules may be included in course delivery.

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 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). 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 (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: 2.5 Lecture/1.5 Laboratory

Recommendation: Proficient in MS Windows Software application.

This is an entry-level course for students wanting to learn to estimate non-structural (minor) automotive damage. Emphasis is on vehicle construction and structural design, repair methodology, vehicle component and systems identification, and in developing appropriate judgment repair times. Students learn to write hand-written estimates identifying the cost of parts, labor materials, sublet, and other charges required to return damaged vehicles to factory specifications. 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. I-CAR Live training may be included in course delivery.

Transfer Credit: CSU

AB 182 STRUCTURAL DAMAGE ESTIMATING 3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory
Recommendation: AB 181 or equivalent with a grade of Pass or "C" or higher or appropriate work experience. Proficient in MS Windows Software applications.

This course expands students' ability to estimate complex types of structural, mechanical, and electrical damage to vehicles. Areas of study include understanding collision theory, damage analysis fundamentals, visual inspection process, measuring and analyzing structural damage, suspension and mechanical systems damage, factory build tolerances, and safety systems of the severely damaged vehicles. Other topics include estimator job functions, customer satisfaction, regulatory compliance, and ethics within the collision repair industry. I-CAR Live curriculum may be presented during this course.

Transfer Credit: CSU

AB 183 COMPUTERIZED DAMAGE ESTIMATING 1.5 UNITS

Class hours: 1.5 Lecture/0.5 Laboratory
Recommendation: Work experience in the automotive collision repair industry.

The focus of this course is for students to distinguish between collision damage estimating programs. Students learn how each software program is used to properly identify vehicles, components, and systems, and how to select and input the appropriate replacement parts and labor costs into computerized damage reports. Topics include comparison of customer and insurance company profiles, 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 each software program will be reviewed. I-CAR Live curriculum may be included in course delivery.

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 the 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. I-CAR Live curriculum may be included in course delivery.

Transfer Credit: CSU

AB 281 STRUCTURAL DAMAGE ANALYSIS FOR ESTIMATORS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

Recommendation: AB 59M or AB 181 or AB 182 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course is designed to help the collision damage estimator, appraiser, and autobody 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.

Transfer Credit: CSU

AB 282 STEERING, SUSPENSION AND POWERTRAIN ANALYSIS FOR ESTIMATORS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

Recommendation: AB 59M or AB 181 or AB 281 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

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

AB 283 ADVANCED-FRAME ANALYSIS FOR ESTIMATORS 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

Recommendation: AB 59M or AB 281 or AB 282 or equivalent with a grade of Pass or "C" or higher or appropriate work experience.

This course builds on student knowledge gained from the previous courses and assists in mastery of collision damage analysis of full-frame vehicles. The focus of this course is specific damage analysis of pickup trucks and sport utility vehicles (SUVs).

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 promotion and management of an automotive repair facility. Areas of training include development of standard operating procedures (SOPs), 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, regulatory compliance, effective communication skills, process improvement, and time management.

Transfer Credit: CSU

AB 286 COMPUTERIZED SHOP MANAGEMENT 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: AB 182 or AB 285 or equivalent with a grade of Pass or "C" or higher or concurrent enrollment or equivalent work experience.

This is a theory and practical course centering on computerized collision repair shop management. A comparison of various management software applications, features,

and functions, as well as available training tutorials are included in the course delivery. Additional content includes interface with estimating and accounting applications, embedding regulatory compliance, parts ordering and tracking, labor dispatching and tracking, payroll processing, administrative and accounting reports, individual work order reports tracking production cycle-time, customer service call-backs, and forecasting.
Transfer Credit: CSU

**AB 287
ADVANCED COLLISION
REPAIR MANAGEMENT 2.0 UNITS**

Class hours: 2.0 Lecture
This course includes presentation of the skills required to effectively direct, manage, and promote multi-shop organizations (MSOs). Areas of advanced training include rules and regulations, standard operating procedure (SOP), job costing, equipment and materials procurement, facility cost analysis, department operations, safety, employee and right-to-know issues, warranties, customer satisfaction, licensing and certification, insurance direct repair programs (DRPs) from the perspective of multi-shop organizations and/or franchise body shop operations.
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, comprehensive claims, vandalism, claims negotiation, vehicle re-inspection process, fraud detection, identification of pre-existing damage, appropriate repair standards, personal presentation, and image projection. I-CAR Live curriculum may be included in course delivery.
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 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

Course Descriptions

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: 1.0 Work Experience
One (1) hour control class each week plus 15 hours of employment per week for Automotive Mechanical Repair Work Experience 73. The employment must be in a job related to the student's educational goal.
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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

AUTO 74 AUTOMOTIVE MECHANICAL REPAIR OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: 1.0 Work Experience
One (1) hour control class each week plus 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.
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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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). 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 (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 107 DIESEL EXHAUST EMISSION CONTROL AND SERVICING 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: AUTO 109 or equivalent with a grade of Pass or "C" or higher.
Recommendation: AUTO 80 or AUTO 100 or equivalent with a grade of Pass or "C" or higher.
This course will provide instruction on the background, principles, theory, operation, diagnosis, servicing and repair of diesel engine exhaust emissions control and after treatment systems. This course is intended

Course Descriptions

for students entering the field of on-highway and heavy equipment vehicles, and alternative fuel vehicle service and maintenance, or students currently in the industry looking to advance their knowledge of on-highway and heavy equipment vehicles, and alternative fuel vehicle service, maintenance, and repair. Instruction on technical reference materials, parts and service books, diagnostic systems and programs used by the service technicians will be covered.

Transfer Credit: CSU

AUTO 108 ENERGY AND TRANSPORTATION SYSTEMS 4.0 UNITS

Class hours: 3.0 Lecture/3.0 Laboratory

This is a theory course on the relationship between energy development and transportation systems. The course involves all aspects of current and near future energy systems and how they relate to different transportation methods. Emphasis will be on career pathways in the development and sustainability of renewable energy systems for use in transportation.

Transfer Credit: CSU

AUTO 109 AUTOMOTIVE DIESEL SYSTEMS 5.0 UNITS

Class hours: 4.0 Lecture/4.0 Laboratory

Recommendation: Current automotive student or employed as an automotive service professional.

This is a theory/practical course in automotive diesel engine repair that includes operating principles and descriptions of all components. The major emphasis will be on systems operation and diagnosis.

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 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

Recommendation: AUTO 181 and AUTO 73/74 or equivalent with grades 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. This 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,

Course Descriptions

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 and AUTO 73/74 or equivalent with grades 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 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
Recommendation: AUTO 100 and AUTO 73/74 or equivalent with grades 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

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

Course Descriptions

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 a grade 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.

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

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 a maximum of 2 times.

Transfer Credit: CSU

BIOLOGY

(SCIENCE, ENGINEERING, MATH DIVISION)

BIOL 95 (Not Degree Applicable)

INDIVIDUALIZED BIOLOGY INSTRUCTION 0.5 UNIT

Class hours: 2.0 Laboratory

Open Entry/Open Exit

Corequisite: Enrollment in any biology course.

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 biology course. This course is offered on a pass/no pass basis only. This course may be taken a maximum of 4 times. (Formerly BIOL 9T, AED 90.1)

BIOL 100

NATURAL HISTORY OF SOUTHERN 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 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.*

Course Descriptions

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 a maximum of 2 times.

Transfer Credit: CSU

BIOL 200

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 of 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

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 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 a maximum of 4 times.

Transfer Credit: CSU; UC TBD 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). 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 (2 units for 108 hours). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

BOTANY

(SCIENCE, ENGINEERING, MATH 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). 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 (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, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

BA 50 BUSINESS MATH FOR MANAGERS 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 percentages, interest markup, discounting, stocks, annuities, consumer credit, loans, and bank reconciliations.

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-based business. The process of starting and operating a home-based business is included in this course.

BA 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). This course may be taken a maximum of 2 times.

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

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

Course Descriptions

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 in depth 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 109 HUMAN RESOURCE DEVELOPMENT 3.0 UNITS

Class hours: 3.0 Lecture

This course covers the entire field of Human Resource Development (HRD), from orientation and skills training to career development and organizational development. In addition to being theory- and research-based, it is also practical- and experience based, designed for students who wish to become HRD professionals, or managers at all levels.

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 BA 113 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 116 MANAGING GREEN: SUSTAINABILITY AND INNOVATION 3.0 UNITS

Class hours: 3.0 Lecture

The class covers sustainability and innovative management from the history of its origin to theories, framework, and business cases that touch on larger societal and ecological challenges. This course meets the educational needs of business leaders, all of whom are being challenged by government regulations, energy costs, and social responsibilities never before faced.

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 RETAIL MANAGEMENT 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

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

Course Descriptions

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

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 124 FUNDAMENTALS OF TRAINING 3.0 UNITS

Class hours: 3.0 Lecture

This survey course focuses on the acquisition of knowledge, skill development, and competencies from teaching vocational or practical skills, and knowledge. Methods and concepts of on-the-job training, off-the-job training, virtual training, and professional development will be explored.

Transfer Credit: CSU

BA 125 DESIGNING, DEVELOPING, AND DELIVERING EFFECTIVE TRAINING PROGRAMS 3.0 UNITS

Class hours: 3.0 Lecture

This course provides insightful, practical, and comprehensive learning on topics that matter the most to training and Human Resources (HR) professionals: How to design, develop, and deliver effective training programs.

In addition, students will study practical applications, adult learning principles that guide learning objectives, and how to establish an environment that is conducive to learning.

Transfer Credit: CSU

BA 126 E-LEARNING 3.0 UNITS

Class hours: 3.0 Lecture

This course provides students with evidence-based guidelines for both self-study (asynchronous) and virtual classroom (synchronous) forms of E-learning. Students will study the guidelines, evidence, and examples that shape decisions about the design, development, and evaluation of E-learning. This course reflects the current state of the E-learning field, blending real-world practices and up-to-date research.

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.

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

Course Descriptions

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 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 JOUR 157.

Transfer Credit: CSU

BA 171 BUSINESS ADMINISTRATION OCCUPATIONAL WORK EXPERIENCE 1.0 UNIT

Class hours: 1.0 Work Experience

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. Work experience courses may be taken for a

maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

BA 172 BUSINESS ADMINISTRATION OCCUPATIONAL WORK EXPERIENCE 2.0 UNITS

Class hours: 1.0 Work Experience

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 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

BA 173 BUSINESS ADMINISTRATION OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: 1.0 Work Experience

Three units of Business Administration 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

BA 174 BUSINESS ADMINISTRATION OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: 1.0 Work Experience

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

Course Descriptions

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 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 208 LEADERSHIP FOR WOMEN IN BUSINESS 3.0 UNITS

Class hours: 3.0 Lecture

This course explores women's leadership, management, communication styles, and the vision and values women leaders bring to an effective environment in business. It is about balancing work/life and managing drive, ambition, adversity, commitment, networking, and achievement. It examines strategies for developing and encouraging skills that enable and allow women leaders and managers to succeed. This course is not open to students who are enrolled in WS 208 or have received credit in WS 208.

Transfer Credit: CSU

BA 233 BUSINESS MANAGEMENT IN A WEB 2.0 WORLD 3.0 UNITS

Class hours: 3.0 Lecture

This course is a study of management theory and leadership in a highly networked and socially connected business environment, followed by a practical, fast paced introduction to the principles, context, and development of Web 2.0 and its applications for business managers.

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). 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

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 (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 OFFICE TECHNOLOGY

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

BCOT 3T (Not Degree Applicable) BUSINESS COMMUNICATIONS OFFICE TECHNOLOGY LAB 0.5 UNIT

Class hours: 2.0 Laboratory

Open Entry/Open Exit

Corequisite: Enrollment in any BCOT course.

This course is designed to facilitate and reinforce the learning of computer software and applications, functions, skills, and concepts through individualized and mediated instruction. This course is open to any student enrolled in a BCOT course. This course may be taken a maximum of 4 times.

BCOT 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. (Formerly BCOM 46)

Course Descriptions

BCOT 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. (Formerly BCOM 51)

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. 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 54 BUSINESS WRITING FOR MANAGERS

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: BCOT 46

This course is designed to assist managers and supervisors in the business field to develop written reports, proposals, evaluations, and other types of communication specific to the management field. The strategies and processes necessary to write successful managerial communications will be covered. The students will be introduced to real-world examples of corporate and organization communication, scenarios requiring students to adopt a point of view, and opportunities to develop written communication from that specific point of view. They will be exposed to cultural differences and discussions of corporate ethical matters.

BCOT 60 (Not Degree Applicable) 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 BCOM 60)

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 online 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 course is designed to provide intensive training and practice in typewriting speed and control. The students will work 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.

BCOT 70 MEDICAL MACHINE TRANSCRIPT 4.0 UNITS

Class hours: 4.0 Lecture/2.0 Laboratory
Prerequisite: BCOT 46, BCOT 131, BCOT 162, and MA 161 or their equivalents with grades of Pass of "C" or higher or concurrent enrollment in these courses.

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 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.

Course Descriptions

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 112 **MICROSOFT WORD 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 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 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 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.

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 118 **MICROSOFT ACCESS FOR OFFICE TECHNOLOGY 1.5 UNITS**

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: Concurrent enrollment in BCOT 3T.

This course introduces the student to Microsoft Access software applications for administrative assistants and office technology. This course prepares the student for Level 1 Microsoft Certified Application Specialist (MCAS) certification for Microsoft Access. This course may be taken a maximum of 2 times.

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 147 **BUSINESS COMMUNICATIONS 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: BCOT 46 or equivalent with a grade 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. (Formerly BCOM 147)

Transfer Credit: CSU

BCOT 148 **EFFECTIVE BUSINESS PRESENTATIONS 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: BCOT 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. (Formerly BCOM 148)

Transfer Credit: CSU

Course Descriptions

BCOT 150 **INTERNATIONAL BUSINESS** **COMMUNICATION 3.0 UNITS**

Class hours: 3.0 Lecture

Recommendation: BCOT 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. (Formerly BCOM 150)

Transfer Credit: CSU

BCOT 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 any Business discipline.

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 a maximum of 2 times. (Formerly BCOM 152)

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 247 **MANAGERIAL BUSINESS** **COMMUNICATIONS 3.0 UNITS**

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher

This course applies the principles of ethical and effective communication to the creation of letters, memos, e-mails, employment communication, and written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports. This course is designed for students who already have college-level writing skills.

Transfer Credit: CSU

CHEMISTRY **(SCIENCE, ENGINEERING, MATH DIVISION)**

CHEM 95 (Not Degree Applicable) **INDIVIDUALIZED CHEMISTRY** **INSTRUCTION 0.5 UNIT**

Class hours: 2.0 Laboratory

Open Entry/Open Exit

Corequisite: Enrollment in any chemistry course.

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 chemistry course. This course is offered on a pass/no pass basis only. This course may be taken a maximum of 4 times. (Formerly CHEM 9T, AED 90.1)

CHEM 100 **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.

Course Descriptions

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 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 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 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 prerequisite 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 with 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 prerequisites be completed within four years prior to the date of enrollment in CHEM 212.

This course is the second 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 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 a maximum of 2 times.

Transfer Credit: CSU; UC TBD 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 (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). This course may be taken a maximum of 2 times.

CD 110

CHILD DEVELOPMENT

3.0 UNITS

Class hours: 3.0 Lecture

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages.

Transfer Credit: CSU; UC

CD 124

TEACHING IN A DIVERSE SOCIETY

3.0 UNITS

Class hours: 3.0 Lecture

Examination of the development of social identities in diverse societies, including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms, and teaching. Various classroom strategies will be explored, emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. The course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media, and schooling.

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 appropriate use of observation and assessment strategies to document development, growth, play, and learning of young children. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. The emphasis will be on developing observation skills that will facilitate understanding children's behavior and encouraging positive self-esteem while helping the child work toward self-control. Content will cover effective communication with children and families, theories of behavior, guidance techniques, and appropriate teaching and intervention strategies.

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). 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 (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/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 EXPERIENCES 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.

Course Descriptions

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 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 an examination of the underlying theoretical principles of developmentally appropriate practices applied to the programs and environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative, and intellectual development for all children. It provides a survey of the field of Early Childhood Education, emphasizing historical roots of a variety of programs, and the evolution of the professional practices promoting ethics, advocacy, and professional identity.

Transfer Credit: CSU

CDEC 112 INTRODUCTION TO CURRICULUM 3.0 UNITS

Class hours: 3.0 Lecture

This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age six. Students will examine a teacher's role in supporting development and fostering the joy of learning for all young children, using observation and assessment strategies emphasizing the essential role of play. An overview of content areas will include, but not be limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, and math and science.

Transfer Credit: CSU

CDEC 113 THE CHILD, FAMILY, AND COMMUNITY 3.0 UNITS

Class hours: 3.0 Lecture

This course examines the developing child in a societal context, focusing on the interrelationship of family, school, and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.

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 HEALTH, SAFETY, AND NUTRITION 3.0 UNITS

Class hours: 3.0 Lecture

This course introduces the laws, regulations, standards, policies, procedures, and early childhood curriculum related to child health, safety, and nutrition. The key components that ensure physical health, mental health, and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. There will be a focus on integrating the concepts into everyday planning and program development for all children.

Transfer Credit: CSU

CDEC 164 PRACTICUM FIELD EXPERIENCE 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory

Prerequisite: CD 110, CDEC 111, CDEC 112, and CDEC 113 or equivalent with grades of Pass or "C" or higher.

Recommendation: CD 124, CD 139, and CDEC 161.

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 54 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: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week. The employment must be in a job related to the student's educational goal. 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 meets the Department of Social Services Classification Indicator DS 3. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

CDEC 174
EARLY CHILDHOOD
EDUCATION OCCUPATIONAL
WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 20 hours of employment per week. The employment must be in a job related to the student's educational goal. 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 meets the Department of Social Services Classification Indicator DS 3. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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). 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 (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/INFANT
TODDLER

(HEALTH OCCUPATIONS DIVISION)

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.

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.

Transfer Credit: CSU

CHILD DEVELOPMENT/
INSTRUCTIONAL AIDE

(HEALTH OCCUPATIONS DIVISION)

CDIA 73
EDUCATIONAL PARAPROFESSIONAL
OCCUPATIONAL WORK
EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week for

Instructional Aide Work Experience 73. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

CDIA 74
EDUCATIONAL PARAPROFESSIONAL
OCCUPATIONAL WORK
EXPERIENCE **4.0 UNITS**

Class hours: 1.0 Work Experience
 One (1) hour control class each week plus 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.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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/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 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). 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 (2 units for 108 hours). This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CHILD DEVELOPMENT/SPECIAL EDUCATION

(HEALTH OCCUPATIONS DIVISION)

CDSE 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.

CDSE 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.

CDSE 73 SPECIAL EDUCATION ASSISTANT OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week. The employment must be in a job related to the student's educational goal.

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 meets the Department of Social Service Classification Indicator DS3. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

CDSE 74 SPECIAL EDUCATION ASSISTANT OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 20 hours of employment per week. The employment must be in a job related to the student's educational goal.

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 meets the Department of Social Service classification Indicator DS3. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 China through lectures, films, and reading assignments. This course is not recommended for native speakers.

Transfer Credit: CSU; UC

CHIN 102 ELEMENTARY CHINESE 5.0 UNITS

Class hours: 5.0 Lecture

Prerequisite: CHIN 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 Chinese with an emphasis on oral and written communication. It helps continue to develop the appreciation of cultural diversity through the study of the differences and similarities between cultures.

Transfer Credit: CSU

COMPUTER AND INFORMATION SCIENCES

(SCIENCE, ENGINEERING, MATH 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 a maximum of 2 times. (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,

Course Descriptions

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.

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 SERVICES 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory
Recommendation: Strongly recommend CIS 212 or equivalent with a grade of Pass or "C" or higher.
This course covers the support of the various features of Microsoft Internet Information Services (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 Services. The course uses a combination of lectures, demonstrations, discussions, online assignments, and hands-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 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 organizational 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 will be introduced

Course Descriptions

to basic operational concepts in database programming using Access, in creating and editing text in Word, and be introduced to presentation graphics using PowerPoint.

*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 Webs, 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 a grade 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 a grade of 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 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

ISERIES 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:

Course Descriptions

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 ISERIES (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. Topics 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 LEVEL 2 1.5 UNITS

Class hours: 1.5 Lecture/1.0 Laboratory

Recommendation: CIS 155A, BCOT 118 or equivalent with a grade of Pass or "C" or higher or appropriate work experience using Access.

This course emphasizes advanced database functions of Microsoft Access latest version of software. Topics include Level 2 Microsoft Certified Application Specialist (MCAS) 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 Level 2 Microsoft Certified Application Specialist (MCAS) Certification, which is offered by Microsoft initially for Microsoft Office 2007. This course can be taken in a traditional classroom setting, in an individualized modular setting, or in an online learning environment.

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

Course Descriptions

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 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.

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

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

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. It 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 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.

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

Course Descriptions

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 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
MICROSOFT ADVANCED
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 students with the information and skills needed to develop a plan for a network infrastructure based on Microsoft Windows server operating systems. Topics mainly focus on the designing aspects of various network services that can be provided by the server operating systems in areas such as Internet Protocol (IP) address assignments, name resolutions, IP routing, server clustering, and network infrastructure security. It also covers the objectives required by current Microsoft certifications, such as Microsoft Certified System Administrator (MCSA), Microsoft Certified System Engineer (MCSE), Microsoft Certified Technology Specialist (MCTS), and Microsoft Certified Information Technology Professional (MCITP).

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
SERVER ADMINISTRATION 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

This course provides 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 latest Microsoft Windows® platform. It offers up-to-date information on core system

administration topics such as Active Directory services, security, disaster planning and recovery, and interoperability with NetWare and Unix. It includes information on Microsoft Internet Security and Acceleration (ISA) Server and scripting. In addition, this course prepares students for a core Microsoft certification exam that will lead to such certifications as the Microsoft Certified System Engineer (MCSE), Microsoft Certified System Administrator (MCSA), Microsoft Certified Technology Specialist (MCTS), and Microsoft Certified Information Technology Professional (MCITP).
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 a core 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 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 APIs (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 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: 1.0 Work Experience

Class hours: 1 hr/wk coordination class.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

CIS 272

COMPUTER AND INFORMATION SCIENCES OCCUPATIONAL WORK EXPERIENCE 2.0 UNITS

Class hours: 1.0 Work Experience

Class hours: 1 hr/wk coordination class.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

CIS 273

COMPUTER AND INFORMATION SCIENCES OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: 1.0 Work Experience

Class hours: 1 hour/week coordination class. 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

CIS 274

COMPUTER AND INFORMATION SCIENCES OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: 1.0 Work Experience

Class hours: 1 hour/week coordination class. 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

CIS 280 OBJECT-ORIENTED PROGRAMMING IN 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 280X OBJECT-ORIENTED PROGRAMMING IN C++ 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

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, constructors, destructor, pointers, virtual functions, operator overloading, inheritance, polymorphism, exceptions, Standard Template Library (STL), the theory of object-oriented programming, and the techniques of object-oriented design. This course is not open to students who have received credit in CIS 280.

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 286 SOFTWARE DEVELOPMENT WITH C# 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: Knowledge of one object-oriented programming language.

This course provides students with the knowledge and skills to develop programs useful for a broad range of Windows based and online applications using C# programming language. The course covers object-oriented design, graphical user interface, networking, threading, web services, collections and basic web database programming. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CIS 288 MOBILE APPLICATION DEVELOPMENT 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory

Recommendation: Knowledge of one object-oriented programming language (such as C++, Java, or C#) or work related experience. This course explores the principles and tools involved in the design and construction of applications for mobile devices. The course covers designing user interfaces, processing user input and events, retrieving and storing data, communicating via the Internet, and deploying applications. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CIS 292 DATA STRUCTURES 3.0 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). 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 (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 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, hairsculpturing, haircoloring, 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 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. It provides an opportunity for the student to continue developing manipulative skill in hairstyling, hairsculpturing, haircoloring, 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, hairsculpturing, salesmanship, long hairstyling, chemical relaxing, make-up, conditioning, manicuring, and to gain knowledge of trichology, dermatology, and

Course Descriptions

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, hairsculpturing, 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, 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 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, 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 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 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 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.

Course Descriptions

COS 72A

INTERMEDIATE 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 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.

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 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 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). 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 (2 units for 108 hours). This course may be taken a maximum of 2 times.

COUNSELING

(COUNSELING & GUIDANCE DIVISION)

COUN 10 (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.

COUN 20 (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 a maximum of 2 times.

COUN 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 a maximum of 4 times.

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

Course Descriptions

COUN 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

COUN 150 **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

COUN 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

COUN 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

COUN 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

COUN 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). 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

COUN 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 (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, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

CRCC 1T (Not Degree Applicable)

COMPUTER-AIDED

TRANSCRIPTION LAB

1.0 UNIT

Class hours: 4.0 Laboratory

Open Entry/Open Exit

This lab course is designed for students in the Court Reporting and Captioning Careers Department to complete Computer-Aided Transcription, (CAT) , CAT tutorials, and practice assignments from their court reporting courses that recommend this lab. This course may be taken a maximum of 4 times.

CRCC 5T (Not Degree Applicable)

CSR QUALIFYING EXAM

TRANSCRIPTION LAB

2.0 UNITS

Class hours: 6.0 Laboratory

Open Entry/Open Exit

This course assists development in transcription of the Certified Shorthand Reporters (CSR) Qualifying Exam for students preparing to take the State CSR Exam.

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 the 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,

Course Descriptions

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.

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 a maximum of 2 times.

CRCC 57A BEGINNING AURAL LANGUAGE SKILLS FOR COURT REPORTERS 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: CRCC 140, CRCC 141, and BCOT 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.

CRCC 57B ADVANCED AURAL LANGUAGE SKILL FOR COURT REPORTERS 3.0 UNITS

Class hours: 3.0 Lecture
Recommendation: BCOT 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.

CRCC 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). This course may be taken a maximum of 2 times.

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 (2 units for 108 hours). This course may be taken a maximum of 2 times.

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.

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.

Transfer Credit: CSU

CRCC 115 MEDICAL SHORTHAND FOR COURT REPORTERS 4.0 UNITS

Class hours: 4.0 Lecture/1.0 Laboratory
Recommendation: CRCC 114 and 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.

Transfer Credit: CSU

CRCC 116 INTRODUCTION TO COURTROOM PROCEDURES 4.0 UNITS

Class hours: 4.0 Lecture/2.0 Laboratory
Recommendation: CRCC 119BCD, CRCC 144, and CRCC 192 or their equivalents 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.

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.

Transfer Credit: CSU

CRCC 119AEF CAT DICTIONARY BUILD 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Recommendation: CRCC 141 or equivalent with a grade of Pass or "C" or higher.

The A portion of this course introduces students to the Computer-Aided Transcription (CAT) process and includes some history of CAT and computer terminology. Students will build a basic CAT dictionary of approximately 15,000 words. The E portion of this course is for building a medical dictionary. The F portion of this course is for building a legal dictionary. Students may work in the court reporting lab or be required to have an electronic stenotype machine and CAT software available for their use. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

CRCC 119BCD COMPUTER-AIDED TRANSCRIPTION 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
Recommendation: CRCC 119AEF and CRCC 143 or their equivalent with grades of Pass or "C" or higher.

This course is designed to prepare students for using Computer-Aided Transcription (CAT) to transcribe their court reporting assignments and tests. The B portion of this course takes student through dictionary preparation for transcript production. The C portion of this course takes student through transcript production. The D portion of this course takes student into realtime and working out conflicts that may arise in realtime translation. All portions take students through scoping, editing, transcribing, spell checking, formatting, dictionary maintenance, and printing of documents using CAT software, the stenotype machine, and the computer. This course may be taken a maximum of 3 times to complete portions of dictionary build.

Transfer Credit: CSU

CRCC 125 COMPUTERIZED SHORTHAND REALTIME PRACTICUM I (100-130 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 119BCD and CRCC 143 or their equivalents with grades of Pass or "C" or higher. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

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 a maximum of 2 times.

Transfer Credit: CSU

CRCC 126 COMPUTERIZED SHORTHAND REALTIME PRACTICUM II (120-150 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 119BCD and CRCC 144 or their equivalents with grades of Pass or "C" or higher. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

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 a maximum of 3 times.

Transfer Credit: CSU

CRCC 127 COMPUTERIZED SHORTHAND REALTIME PRACTICUM III (140-170 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 119BCD and CRCC 145 or their equivalents with grades of Pass or "C" or higher. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

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 a maximum of 3 times.

Transfer Credit: CSU

CRCC 128 COMPUTERIZED SHORTHAND REALTIME PRACTICUM IV (160-190 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 119BCD and CRCC 146 or their equivalents with grades of Pass or "C" or higher. It is recommended this course be taken concurrently with court reporting lab CRCC 1T and CRCC 5T.

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 a maximum of 4 times.

Transfer Credit: CSU

CRCC 129 COMPUTERIZED SHORTHAND REALTIME PRACTICUM V (180-210 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 119BCD and CRCC 147 or their equivalents with grades of Pass or "C" or higher. It is recommended this course be taken concurrently with court reporting lab CRCC 1T and CRCC 5T.

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 a maximum of 4 times.

Transfer Credit: CSU

CRCC 137A BEGINNING CAT 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 court reporting Computer-Aided Transcription (CAT) software. Students will learn how to use CAT software in the CAT process of producing transcripts and writing realtime. This course is for students just beginning to use CAT software. Students may use the CAT software of their choice, but the main applications being addressed are ProCAT and CATalyst. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CRCC 137B INTERMEDIATE CAT SOFTWARE 1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory
Recommendation: CRCC 137A or equivalent with a grade of Pass or "C" or higher.
This course will give court reporters and court reporting students who are already using the basic functions of court reporting Computer-Aided Transcription (CAT) software for an introduction to some of the more advanced function capabilities of the software. Students may use the CAT software of their choice, but the main applications being addressed are ProCAT and CATalyst. This course may be taken a maximum of 2 times.
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 a maximum of 2 times.
Transfer Credit: CSU

CRCC 140 COMPUTERIZED SHORTHAND THEORY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Corequisite: CRCC 141.
Recommendation: BCOT 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.
Transfer Credit: CSU

CRCC 140A COMPUTERIZED SHORTHAND THEORY A 2.5 UNITS

Class hours: 2.0 Lecture/2.0 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.
Transfer Credit: CSU

CRCC 140B COMPUTERIZED SHORTHAND THEORY B 2.5 UNITS

Class hours: 2.0 Lecture/2.0 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.
Transfer Credit: CSU

CRCC 141 COMPUTERIZED SHORTHAND THEORY REVIEW/ SKILL DEVELOPMENT 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Corequisite: CRCC 1T.
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 a maximum of 2 times.
Transfer Credit: CSU

CRCC 141A COMPUTERIZED SHORTHAND THEORY REVIEW/ SKILL DEVELOPMENT A 2.5 UNITS

Class hours: 2.0 Lecture/2.0 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 a maximum of 2 times
Transfer Credit: CSU

CRCC 141B COMPUTERIZED SHORTHAND THEORY REVIEW SKILL DEVELOPMENT B 2.5 UNITS

Class hours: 2.0 Lecture/2.0 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 a maximum of 2 times.
Transfer Credit: CSU

CRCC 142 INTERMEDIATE COMPUTERIZED SHORTHAND 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 119AEF and CRCC 140 or their equivalents with grades of Pass or "C" or higher. Minimum typing speed of 40 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.
This course provides the basis for developing, refining, and improving machine skill and speed and is designed for the 60 to 70 word-per-minute speed student. 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 a maximum of 2 times.
Transfer Credit: CSU

CRCC 143 COMPUTERIZED SHORTHAND SPEED BUILDING I 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 119BCD with a grade of Pass or "C" or higher. Minimum typing speed of 43 wpm or enrollment in a keyboarding class. It is recommended that course be taken concurrently with court reporting lab CRCC 1T.

This course provides a continuing basis to further develop, refine, and improve machine shorthand skill and speed and is designed for the 80 to 90 word-per-minute speed student. In addition to the areas emphasized in previous classes, jury charge and multiple-voice colloquy are included. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CRCC 144 COMPUTERIZED SHORTHAND SPEED BUILDING II 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 119BCD with a grade of Pass or "C" or higher. Minimum typing speed of 47 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

This course continues intensive sustained dictation to increase machine shorthand speed and to improve transcription ability and is designed for the 100 to 110 word-per-minute speed student. Latin and French words, Congressional Record, multiple-voice testimony, legal opinions, and expert opinion materials are included. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CRCC 145 COMPUTERIZED SHORTHAND SPEED BUILDING III 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 119BCD with a grade of Pass or "C" or higher. Minimum typing speed of 50 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

This course continues intensive sustained dictation to increase machine shorthand speed and to improve transcription ability and is designed for the 120 to 130 word-per-minute speed student. 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 a maximum of 3 times.

Transfer Credit: CSU

CRCC 146 COMPUTERIZED SHORTHAND SPEED BUILDING (140-170 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 145 or equivalent with a grade of Pass or "C" or higher. Minimum typing speed of 55 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with course reporting lab CRCC 1T.

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 and is designed for the 140 to 150 word-per-minute speed student. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

CRCC 147 COMPUTERIZED SHORTHAND SPEED BUILDING (160-190 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 185 with a grade of Pass or "C" or higher. Minimum typing speed of 60 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

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 and is designed for the 160 to 170 word-per-minute speed student. In addition, this course is designed to prepare advanced students for various state and city hearing reporter examinations and employment. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

CRCC 148 COMPUTERIZED SHORTHAND SPEED BUILDING (180-210 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 185 or equivalent with a grade of Pass or "C" or higher. Minimum typing speed of 60 wpm or enrollment in

a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T and CRCC 5T.

This course offers intensive sustained dictation to increase machine shorthand speeds and to prepare advanced students for the Certified Shorthand Reporters (CSR) examination and various positions. This course is designed for the 180 to 190 word-per-minute speed student. Simulated courtroom proceedings will be used as a means to qualify for the State Boards. This course may be taken a maximum of 4 times. This course offers intensive sustained dictation to increase machine shorthand speeds and to prepare advanced students for the CSR examination and various positions. This course is designed for the 180 to 190 word-per-minute speed student. Simulated courtroom proceedings will be used as a means to qualify for the State Boards. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

CRCC 149 COMPUTERIZED SHORTHAND SPEED BUILDING (190-225 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 185 or equivalent with a grade of Pass or "C" or higher. Minimum typing speed of 60 wpm or enrollment in a keyboarding class and completion of 60 hours of apprenticeship training. It is recommended this course be taken concurrently with court reporting lab CRCC 1T and CRCC 5T.

This course is designed to offer intensive sustained dictation to increase endurance and speed and is designed for the 200 to 225 word-per-minute speed student. 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 a maximum of 4 times.

Transfer Credit: CSU

CRCC 152 INTRODUCTION TO JURY CHARGE INTERMEDIATE COMPUTERIZED SHORTHAND 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: CRCC 140 and CRCC 141 or their equivalents with grades of Pass or "C" or higher. Minimum typing speed of 40 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

Course Descriptions

This 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 a maximum of 2 times.

Transfer Credit: CSU

CRCC 153 MULTIPLE-VOICE COLLOQUY I COMPUTERIZED SHORTHAND SPEED BUILDING I 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: Minimum stenotype speed of 70 wpm and a minimum typing speed of 43 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

This course promotes the development of speed, accuracy, and formatting techniques in reporting and transcribing multiple-voice colloquy. This course develops proficiency in recording 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 a maximum of 3 times.

Transfer Credit: CSU

CRCC 154 INTRODUCTION TO CONGRESSIONAL RECORD COMPUTERIZED SHORTHAND SPEED BUILDING II 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: Minimum stenotype speed of 90 wpm and a minimum typing speed of 47 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

This 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 a maximum of 2 times.

Transfer Credit: CSU

CRCC 155 MULTIPLE-VOICE COLLOQUY II COMPUTERIZED SHORTHAND SPEED BUILDING III 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: Minimum stenotype speed of 110 wpm and a minimum typing speed of 50 wpm or enrollment in a keyboarding class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

This 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 a maximum of 3 times.

Transfer Credit: CSU

CRCC 156 JURY VOIR DIRE PROCEDURES COMPUTERIZED SHORTHAND SPEED DEVELOPMENT (140-170 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: Minimum stenotype speed of 130 wpm and a minimum typing speed of 55 wpm or enrollment in a keyboarding class. It is recommended that course be taken concurrently with court reporting lab CRCC 1T.

This course is designed to introduce methodology of reporting jury voir dire and to develop management techniques and stenotype speed for this aspect of reporting. This course develops proficiency in recording jury voir dire proceedings and jury charge at speeds ranging from 150-160 wpm. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

CRCC 157 CONGRESSIONAL TESTIMONY COMPUTERIZED SHORTHAND SPEED DEVELOPMENT (160-190 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: Minimum stenotype speed of 150 wpm and a minimum typing

speed of 60 wpm or enrollment in a keyboard class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T.

This 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 states and city hearing reporter examinations. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

CRCC 158 PROFESSIONAL PRACTICES HEARINGS/CONFERENCES COMPUTERIZED SHORTHAND SPEED DEVELOPMENT (180-210 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: Minimum stenotype speed of 170 wpm and minimum typing speed of 60 wpm or enrollment in a keyboard class. It is recommended this course be taken concurrently with court reporting lab CRCC 1T and CRCC 5T.

This 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 a maximum of 3 times.

Transfer Credit: CSU

CRCC 159 IN CURIA/IN CAMERA PROCEDURES COMPUTERIZED SHORTHAND SPEED DEVELOPMENT (190-225 WPM) 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Recommendation: Minimum stenotype of 180 wpm, minimum typing speed of 60 wpm or enrollment in a keyboarding class and completion of 60 hours of apprenticeship training. It is recommended this course be taken concurrently with court reporting lab CRCC 1T and CRCC 5T.

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

Course Descriptions

sustained dictation on all aspects of criminal and civil trials to develop professionalism. This course may be taken a maximum of 3 times.

Transfer Credit: CSU

CRCC 162ABCD

Q AND A SPEED BUILDING I 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: Completion of Court Reporting Theory classes with grades of Pass or "C" or higher. Minimum typing speed of 40 wpm or enrollment in a keyboarding class. Completion of or concurrent enrollment in CRCC 119AEF.

This course introduces two-voice question and answer (Q and A) dictation at speeds beginning at 40 words-per-minute up to 90 wpm to students who have completed court reporting Theory classes and are working on completing their 60, 70, 80, and 90 wpm dictation tests. Frequently used words and phrases, word families, number drills, legal terms, literary, jury charge, and business dictation are also introduced. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

CRCC 164ABCD

Q AND A SPEED BUILDING II 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: Completion 90 words-per-minutes speed tests. Minimum typing speed of 47 to 50 wpm or enrollment in a keyboarding class. Concurrent enrollment in CRCC 119BCD class.

This course covers two-voice question and answer (Q and A) dictation at speeds beginning at 100 words-per-minute up to 130 wpm. Jury charge and business dictation are also given. Congressional Record is introduced at 120 wpm. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

CRCC 166ABCD

Q AND A SPEED BUILDING III 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: Completion of 130 word-per-minute speed tests. Minimum typing speed of 57 to 60 wpm or enrollment in a keyboarding class. Concurrent enrollment in CRCC 119BCD class.

This course covers two-voice question and answer (Q and A) dictation at speeds beginning at 140 words-per-minute up to 170 wpm. Congressional, jury charge, multiple-voice, and literary dictations are also given at the corresponding speeds. This course may

be taken a maximum of 4 times.

Transfer Credit: CSU

CRCC 168ABCD

Q AND A SPEED BUILDING IV 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: Completion of 170 word-per-minute speed tests. Minimum typing speed of 60 wpm or enrollment in a keyboarding class. Concurrent enrollment in CRCC 119AEF class. Concurrent enrollment in CRCC 185.

This course covers two-voice question and answer (Q and A) dictation at speeds beginning at 180 words-per-minute up to 190 wpm. Congressional, jury charge, multiple-voice, and literary dictations are also given at the corresponding speeds. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

CRCC 169ABCD

Q AND A SPEED BUILDING V 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 185 or equivalent with a grade of Pass or "C" or higher. Completion of 190 word-per-minute speed tests. Minimum keyboarding speed of 60 wpm or enrollment in a typing class.

This course covers two-voice question and answer (Q and A) dictation at speeds beginning at 200 words-per-minute up to 225 wpm. Congressional, jury charge, multiple-voice, and literary dictations are also given at the corresponding speeds. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

CRCC 173

COURT REPORTING AND CAPTIONING CAREERS OCCUPATIONAL

WORK EXPERIENCE 3.0 UNITS

Class hours: 1.0 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. 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

CRCC 174

COURT REPORTING AND CAPTIONING CAREERS OCCUPATIONAL

WORK EXPERIENCE 4.0 UNITS

Class hours: 1.0 Work Experience
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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 a maximum of 3 times.

Transfer Credit: CSU

CRCC 190A CAPTIONING VIDEO INTRODUCTION

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

This course is designed to be an introduction to the field of non-live post-production or offline captioning and caption editing. Federal mandates require educational audio and video media be captioned for accessibility and this course addresses an overview of the process of captioning. This course will expose students to types, methods, and styles of captioning, text editing, language mechanics, presentation rate, and special considerations for non-hearing viewers. Students will also participate in some captioning script preparation and should be able to accurately type 35 words per minute on the computer keyboard. Stenotype students may also use their Stenotype machines for script creation. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CRCC 190B CAPTIONING VIDEO LAWS AND REQUIREMENTS

1.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

Recommendation: CRCC 190A or equivalent with a grade of Pass or "C" or higher.

This course is designed to give students interested in post-production captioning and accessibility requirement an understanding of the Federal Communications Commission laws, along with other laws and mandates pertaining to providing captioning of audio/video material. Federal mandates require educational audio and video media be captioned for accessibility and this course addresses an overview of accessibility requirements relating to audio/video media. This course will also introduce basic video production terminology and equipment. Students will participate in some captioning script preparation and application of caption files to media and should be able to accurately type 35 words per minute on the computer keyboard. Stenotype students may also use their Stenotype machines for script creation. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CRCC 190C CAPTIONING VIDEO FOR THE WEB AND VIDEO PRODUCTION

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 190A, CRCC 190B or equivalent with a grade of Pass or "C" or higher.

This course is designed to give post-production/offline captioning students, as well as students just interested in captioning their own videos, an introductory knowledge of video production as it relates to the field of captioning. Students will gain a general knowledge of the various types of media formats that require captioning and a general introduction to caption editing software, including both proprietary and free software, available for captioning. Federal mandates require educational audio and video media be captioned for accessibility and this course addresses an overview of video production in relation to creating and applying captions to audio and video media. Preparing and applying captions to popular video and audio Web hosts will also be covered. Students will participate in some captioning script preparation and application of caption files to media and should be able to accurately type 35 words per minute on the computer keyboard. Stenotype students may use their Stenotype machines for script creation. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CRCC 192 TRANSCRIPTION PROCEDURES

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 141 or their equivalents with grades of Pass or "C" or higher and the ability to type 40 wpm.

This course is designed to help students acquire the skills necessary to properly format transcript data of court proceedings. This formatting relates to all types of legal and court documents including deposition transcripts. This course may be taken a maximum of 2 times.

Transfer Credit: CSU

CRCC 193A BASIC CAPTIONING

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 119BCD and CRCC 144 or their equivalents 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.

Transfer Credit: CSU

CRCC 193B BASIC BROADCAST CAPTIONING

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 119BCD, CRCC 144, and CRCC 193A or their equivalent with grades 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.

CRCC 194A REALTIME CAPTIONING LEVEL 1

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 193A and CRCC 193B or equivalent with a grade of Pass or "C" or higher.

This course is designed for the court reporting student who is ready to begin active study in the fields of Communication Access Realtime Translation (CART) and broadcast captioning. Course overview will include the history of captioning, the captioning consumer, captioning defined, the legal environment of captioning, and an introduction to concepts of television production. Students should be at 140 words per minute on the stenotype machine and have a functional realtime dictionary in Computer-Aided Transcription (CAT) software. Students will begin to build captioning dictionaries. May be taken concurrently with CRCC 194B, CRCC 194C, and CRCC 194D.

Transfer Credit: CSU

CRCC 194B REALTIME CAPTIONING LEVEL 2

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Recommendation: CRCC 193A, CRCC 193B, and CRCC 194A or equivalent with a grade of Pass or "C" or higher.

Course Descriptions

This course is designed for the court reporting student who is studying the fields of Communication Access Realtime Translation (CART) and broadcast captioning. This course is designed to give students an understanding of all equipment pertaining to the production of captioning, including software and hardware. Students should be at 140 words per minute on the stenotype machine and will continue captioning dictionary build of specialty terms. May be taken concurrently with CRCC 194A, CRCC 194C, and CRCC 194D.

Transfer Credit: CSU

CRCC 194C REALTIME CAPTIONING LEVEL 3

3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CRCC 194A, CRCC 194B, CRCC 193A, and CRCC 193B or equivalent with a grade of Pass or "C" or higher.

This course is designed to expose the Communication Access Realtime Translation (CART) or captioning student through actual practical applications to the psychological aspects of on-air captioning and CART reporting. This course includes simulated assignments in captioning CART and broadcast video/audio, as well as instruction on captioning methodologies. Students should be at 170 words per minute on the Stenotype machine and will continue dictionary building of captioning specialty terms. May be taken concurrently with CRCC 194A, CRCC 194B, and CRCC 194D.

Transfer Credit: CSU

CRCC 194D REALTIME CAPTIONING LEVEL 4

3.0 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Recommendation: CRCC 194A, CRCC 194B, CRCC 194C, CRCC 193A, and CRCC 193B or equivalent with a grade of Pass or "C" or higher.

This course is designed to expose the Communication Access Realtime Translation (CART) or captioning student to advanced practical applications of on-air captioning and will also cover troubleshooting issues for the live captioner, as well as professional development and certification preparation. This course also covers CART reporting methodology, requirements, certification preparation and completion of CART and broadcast captioning practicum assignments. Students should be at 180 words per minute on the Stenotype machine and will continue

dictionary building of specialty terms. May be taken concurrently with CRCC 194A, CRCC 194B, and CRCC 194C.

Transfer Credit: CSU

CRCC 195 REALTIME CAPTIONING LEVEL 5

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Recommendation: CRCC 194A, CRCC 194B, CRCC 194C, and CRCC 194D or equivalent with a grade of Pass or "C" or higher.

This course is designed to be a hands-on finishing class for captioning and Communication Access Realtime Translation (CART) students and incorporates actually using steno skills and equipment and captioning software and hardware to complete captioning assignments in a simulated or professional environment. This course requires completion of CART and broadcast captioning practicum assignments and includes field trips so students may observe the captioning process in action. Students should be at 190 words or higher per minute on the Stenotype machine.

Transfer Credit: CSU

CULINARY ARTS

(HEALTH OCCUPATIONS DIVISION)

CA 43 (Not Degree Applicable) OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience
One (1) hour control class each week plus 15 hours of employment per week. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

CA 44 (Not Degree Applicable)

OCCUPATIONAL

WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 20 hours of employment per week. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

CA 65

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

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.

Course Descriptions

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 and 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). 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. 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 (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 152 INTRODUCTION TO COMMERCIAL FOOD PRODUCTION 6.0 UNITS

Class hours: 4.0 Lecture/6.0 Laboratory

This course introduces the beginning student to the ingredients, methods, and skills used 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. (Formerly CA 52)

Transfer Credit: CSU

CA 153 COMMERCIAL FOOD PRODUCTION: PANTRY ITEMS 9.5 UNITS

Class hours: 3.0 Lecture/20.0 Laboratory

Prerequisite: CA 101 and CA 152 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.

Transfer Credit: CSU

CA 154 COMMERCIAL FOOD PRODUCTION: MEATS & POULTRY 9.5 UNITS

Class hours: 3.0 Lecture/20.0 Laboratory

Prerequisite: CA 153 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.

Transfer Credit: CSU

CA 160 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 food service industry. Instruction and experience in the areas of forecasting operational needs, menu pricing, food purchasing, and cost control are included. (Formerly CA 60)

Transfer Credit: CSU

DANCE

(HEALTH, PHYSICAL EDUCATION, DANCE/ ATHLETICS DIVISION)

DANC 50 (Not Degree Applicable) INDIVIDUALIZED DANCE DEVELOPMENT 1.0 UNIT

Class hours: 4.0 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.

DANC 100 DANCE APPRECIATION 3.0 UNITS

Class hours: 3.0 Lecture

This course offers study of 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

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.

Transfer Credit: CSU; UC

Course Descriptions

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 a maximum of 4 times.
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 a maximum of 2 times.
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.
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 a maximum of 4 times.
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 a maximum of 2 times.
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 a maximum of 2 times.
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 a maximum of 4 times.
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 a maximum of 4 times.
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 another. This course may be taken a maximum of 2 times.
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 taken a maximum of 4 times.
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.
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.
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.
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 a maximum of 4 times.
Transfer Credit: CSU; UC

Course Descriptions

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 a maximum of 4 times.

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 Kinesography notation systems. These systems are taught by using graphs, musical scores, and stick figures or drawings.

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.

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 a maximum of 4 times.

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 a maximum of 4 times.

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 a maximum of 4 times.

Transfer Credit: CSU; UC

DANC 136 DANCE REPERTORY 2.0 UNITS

Class hours: 4.0 Laboratory

Students will study a repertory 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 a maximum of 4 times.

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 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; UC

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 4 times.

Transfer Credit: CSU; UC

DENTAL ASSISTING (HEALTH OCCUPATIONS DIVISION)

DA 1 (Not Degree Applicable)

DENTAL RADIATION SAFETY LICENSING 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.

Course Descriptions

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 assepsis, 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.

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

Course Descriptions

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, 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

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

Course Descriptions

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 planning are emphasized.

Transfer Credit: CSU

DH 150C

CLINICAL DENTAL HYGIENE IIA

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: DH 125C and 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 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

Course Descriptions

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.

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).

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 (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 DIVISION

(SCIENCE, ENGINEERING, MATH 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.

Course Descriptions

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.

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 is 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 ecosphere are also covered. Landforms and processes of the coastal zone and use of abuse of the marine environment are discussed.

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 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, physical geography, or physical anthropology.*

ESCI 180

EARTH SCIENCE MATERIALS AND PREPARATIONS

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: ESCI 110, or GEOL 101, or GEOG 101, or GEOG 101L with a grade of Pass or "C" or higher.

This course is designed primarily for earth science, geology, or geography majors. It focuses on the use and care of laboratory and field equipment necessary for the preparation of field and laboratory demonstrations. An introduction to stockroom procedures may be included. This course may be taken 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). 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 (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

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES 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 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

Course Descriptions

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 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 201M PRINCIPLES OF MACROECONOMICS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
Prerequisite: MATH 80 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 or satisfactory completion of the English placement process.

This introductory course in economics examines how scarce resources are used to produce goods and services that require choices and trade-offs. Macroeconomics looks at the health of the U.S. domestic economy and its relationship to the global economy. Unemployment, inflation, and economic growth are discussed and measured. Fiscal and monetary policies and their effectiveness are studied. The issue of why nations trade and the benefits and costs of trade and globalization are examined. This course uses economic models and mathematical calculations. This course is transferable to the CSU system. Students who have taken ECON 201 are not eligible for this course.

Transfer Credit: CSU; UC

ECON 202 PRINCIPLES OF MICROECONOMICS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: MATH 40 or equivalent with a grade of Pass or "C" of higher or satisfactory completion of the MATH placement process.

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 202M PRINCIPLES OF MICROECONOMICS 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory

Prerequisite: MATH 80 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 or satisfactory completion of the English Placement Process.

This course emphasizes microeconomics: the study of specific markets in the economy. The course investigates the dynamics of supply and demand in competitive markets in determining prices and the quantities of goods and services produced. Consumer behavior is investigated using the concept of marginal analysis. The behavior of firms in attempting to maximize profits is studied as are the differing market structures among varying industries. This course uses economics models and mathematical analysis. This course is transferable to the CSU. Students who have taken ECON 202 are not eligible for this course.

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). 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 (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

Course Descriptions

EDUCATION

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

EDEL 100 INTRODUCTION TO TEACHING AND LEARNING IN DIVERSE CONTEMPORARY CLASSROOMS 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 TRAC Program. Students will be exposed to the philosophies of education, the history of education in America, the

sociology 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). 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

(LIBRARY, LRC AND ED TECH DIVISION)

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 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 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 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 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 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

Course Descriptions

all students completing the Certificate in Teleconferencing Practitioner. This course may be taken a maximum of 3 times.

EDT 30 FUNDAMENTALS OF INSTRUCTIONAL 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: 1.0 Work Experience
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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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.

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 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.

Course Descriptions

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). 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 (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

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.

Course Descriptions

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/1.0 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 50 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, 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 FUNDAMENTALS 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

Course Descriptions

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

ENERGY

(SCIENCE, ENGINEERING, MATH 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). 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 (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 DESIGN TECHNOLOGY

(TECHNOLOGY DIVISION)

ENGT 103

INTRODUCTION TO ENGINEERING DESIGN USING INVENTOR

3.0 UNITS

Class hours: 2.0 Lecture/3.0 Lab

This course introduces the student to the design process in engineering technology by the use of activities-based learning, project-based learning, and problem-based learning. The student will learn about the design process, geometric relationships, visualization, technical sketching, modeling, model documentation, and assemblies.

Transfer Credit: CSU

ENGT 116

BLEUPRINT READING FOR MACHINE TRADES

2.0 UNITS

Class hours: 1.5 Lecture/1.5 Laboratory

Recommendation: ENGT 131 or equivalent with a grade of Pass or "C" or higher.

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.

Transfer Credit: CSU

Course Descriptions

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

Recommendation: ENGT 116 or equivalent with a grade of Pass or "C" or higher.

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

Recommendation: ENGT 116 and ENGT 131 or equivalent with grades 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.

Recommendation: One year of mechanical drawing, or verifiable work experience, a Math Placement test score that qualifies the student for MATH 40 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: One year of mechanical drawing, or verifiable work experience, a Math Placement test score that qualifies the student for MATH 40 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 3-DS MAX DESIGN 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 3-Ds MAX Design. They will use the AutoDesk 3-Ds MAX Design system for basic theory, as it applies 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.

Course Descriptions

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 a 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 260 ADVANCED MODELING USING SOLIDWORKS 4.0 UNITS

Class hours: 3.0 Lecture/2.3 Laboratory
Prerequisite: ENGT 259 or equivalent with a grade of Pass or "C" or higher.

This course advances the student's skill in creating three-dimensional (3-D) parametric part modeling, assembly modeling, and surface modeling. Students also learn how to create sheet metal assemblies, welding assemblies, formed tools, and molds.

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. The latest software release of CATIA is used.

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 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 (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 TECHNOLOGY

(TECHNOLOGY DIVISION)

ET 91L ENGINEERING TECHNOLOGY PROJECT LABORATORY 1.0 UNIT

Class hours: 2.3 Laboratory

Prerequisite: ET 101 and ENGT 103 or equivalent with grades of Pass or "C" or higher. Also corequisite of ET 104 or equivalent with a grade of Pass or "C" or higher.

This is a capstone course in which students will work in teams to solve engineering technology problems. Students will be given a theme by the instructor at the beginning of the semester and will identify the problem, explore various solutions, select a solution, optimize their design, provide a prototype, test their prototype, and document the result.

ET 101 PRINCIPLES OF ENGINEERING TECHNOLOGY 3.0 UNITS

Class hours: 2.0 Lecture/2.3 Laboratory

This course introduces the student to principles of engineering technology by the use of activity-based learning, project-based learning, and problem-based learning. The student will learn about the design process, communication and documentation, engineering systems, statics and strength of materials, properties of materials and materials testing, reliability, and kinematics. This course is not open to students who have received credit in EL 102.

Transfer Credit: CSU

ET 102 ELECTRONICS FOR ENGINEERING TECHNOLOGISTS 3.0 UNITS

Class hours: 2.0 Lecture/2.3 Laboratory

This course introduces the student to the applications of electronics in engineering technology by the use of activities-based learning, project-based learning, and problem-based learning. The student will learn about safety, Ohm's law, direct current circuits, capacitance, inductance, reactance, impedance, analog and digital waveforms, basic motors, logic gates, flip-flops, shift registers, and micro-controllers. Techniques

Course Descriptions

of troubleshooting will be emphasized using simulation and electrical measurements. This course is not open to students who have received credit in EL 102.
Transfer Credit: CSU

ET 104

ENGINEERING TECHNOLOGY PROJECT DEVELOPMENT

1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: ET 101 or equivalent with a grade of Pass or "C" or higher.

This course introduces the student to managing the requirements of an engineering technology project from beginning to end. Students will identify the need, provide alternative solutions, optimize their design, provide a prototype, test their prototype, and document their solution.

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. It develops writing fluency through written activities and assignments designed to teach and reinforce conventions to standard English. This course focuses on sentence structure and development and sentence combining. Students will work toward developing short paragraphs. 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 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 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 100

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

ENGL 102

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 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 understanding of word origins, roots, and affixes, with particular attention to terms used in business and the professional

Course Descriptions

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

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 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

Course Descriptions

discussion and analysis of Shakespeare's relevance to his world and to ours. (This is not an acting class.)

Transfer Credit: CSU; UC

ENGL 230A

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

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

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 238

CLASSIC ISLAMIC LITERATURE

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Satisfactory completion of English Placement Process or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course studies Islamic literature in the English translation beginning with the pre-Islamic Arabian poetry of the sixth century and continuing through the thirteenth century. Emphasis is on understanding the literary character of the Qur'an and later Islamic literary works through an examination of literary forms, genres, movements, and themes.

Transfer Credit: CSU; UC

ENGL 240

CREATIVE 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 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 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 a maximum of 2 times.

Transfer Credit: CSU; UC

Course Descriptions

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 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 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. (Formerly ENGL 48/ENGL 48.1)

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). 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 (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) ESL GRAMMAR, READING, AND WRITING 1 5.0 UNITS

Class hours: 5.0 Lecture

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.

ESL 2 (Not Degree Applicable) ESL GRAMMAR, READING, AND WRITING 2 5.0 UNITS

Class hours: 5.0 Lecture

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) ESL GRAMMAR, READING, AND WRITING 3 5.0 UNITS

Class hours: 5.0 Lecture

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 7 (Not Degree Applicable) ESL BEGINNING SPEAKING AND LISTENING 1.5 UNITS

Class hours: 1.5 Lecture

This course identifies and improves the production of American speech sounds. Students prepare, practice and present various oral messages. Emphasis is on stress

Course Descriptions

and intonation. Topics center on students' needs and personal experiences. This course may be taken a maximum of 2 times.

ESL 10 (Not Degree Applicable)

ESL SPEAKING

AND LISTENING 1

3.0 UNITS

Class hours: 3.0 Lecture

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 READING 1

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

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 a maximum of 2 times.

ESL 14 (Not Degree Applicable)

PRONUNCIATION PLUS

3.0 UNITS

Class hours: 3.0 Lecture

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 intonational 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 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 2

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: ESL 10 or equivalent with a grade of Pass 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 23 (Not Degree Applicable)

ESL SPELLING

1.5 UNITS

Class hours: 1.5 Lecture

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 a maximum of 2 times.

ESL 31 (Not Degree Applicable)

ESL READING 2

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)

ESL LEARNING

AMERICAN IDIOMS

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.

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 troublespots 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 a maximum of 4 times.

ESL 36 (Not Degree Applicable)

ESL GRAMMAR REVIEW

0.5 UNIT

Class hours: 2.0 Laboratory

This course is designed to assist any non-native speaker of English who is having difficulty writing grammatically correct papers for college and/or career purposes. It offers individual instruction for grammar structures, sentence formation, punctuation, and word usage when writing in English. This course focuses on correcting students' errors with verb tenses, noun usage, adjective clauses, noun clauses, determiners, gerunds and infinitives, sentence errors, syntax, and punctuation. This course may be taken a maximum of 4 times.

Course Descriptions

ESL 100

ESL ADVANCED WRITING AND GRAMMAR 1 4.0 UNITS

Class hours: 4.0 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 combined: maximum credit, 8 units.*

ESL 200

ESL ADVANCED WRITING AND GRAMMAR 2 4.0 UNITS

Class hours: 4.0 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 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). 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 (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, MATH 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; UC

FILM

(FINE ARTS/COMMUNICATIONS DIVISION)

FILM 101

MOTION PICTURE PRODUCTION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
This is a hands-on course in motion picture production where students learn about screenwriting, and the various phases of production including non-linear editing. Students may take this course to work as members of a production team and/or to

write and direct their own projects. This course may be taken a maximum of 4 times. (Formerly TH 153)

Transfer Credit: CSU

FILM 102

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 a maximum of 4 times. (Formerly TH 156)

Transfer Credit: CSU

FILM 103

TELEVISION COMMERCIAL AND PUBLIC SERVICE ANNOUNCEMENT PRODUCTION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: FILM 101 or FILM 102 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. (Formerly TH 157)

Transfer Credit: CSU

FILM 104

MOTION PICTURE AND DIGITAL CINEMATOGRAPHY 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: FILM 101 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. (Formerly TH 158)

Transfer Credit: CSU

FILM 107

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 and craft of editing by analyzing significant works. Students will apply their knowledge of editing techniques

Course Descriptions

using non-linear editing software (Final Cut Pro) and video footage shot in class. This course may be taken a maximum of 2 times. (Formerly TH 193)
Transfer Credit: CSU

FILM 114 **STORYBOARDING & ANIMATION** **PRINCIPLES FOR FILM** **3.0 UNITS**

Class hours: 2.0 Lecture/4.0 Laboratory
This course looks at visual storytelling techniques using storyboards and the principles of animation to effectively communicate a story through pre-visualization and hand drawing of sequences for a live-action production, graphic novel illustration or a character-based animation project. (This course is not open to students who are enrolled in or who received credit in ART 114.)
Transfer Credit: CSU

FILM 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. (Formerly TH 159)
Transfer Credit: CSU; UC

FILM 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 a maximum of 2 times. (Formerly TH 160)
Transfer Credit: CSU; UC

FILM 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. (Formerly TH 241)
Transfer Credit: CSU; UC

FILM 256 **DOCUMENTARY FILM & REALITY** **TELEVISION PRODUCTION** **3.0 UNITS**

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: FILM 101 and FILM 102 or equivalent with grades of Pass or "C" or higher.
This is a production course in the study of the related non-fictional formats of the documentary film and reality television programs. This course may be taken a maximum of 2 times. (Formerly TH 256)
Transfer Credit: CSU

FILM 271 **MUSIC VIDEO** **PRODUCTION** **3.0 UNITS**

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: FILM 101, FILM 107, and either FILM 102 or ART 114. Courses or equivalents must be completed with grades of Pass or "C" or higher.
Recommendation: Adequate hearing and vision to produce and edit music videos.
This is an introductory course in the study of the aesthetics, history, and the production of music videos. Unlike narrative films, which focus on character development and story plots, music videos generally aim for instant emotional gratification. This course may be taken a maximum of 2 times. (Formerly TH 271)
Transfer Credit: CSU

FILM 293 **ADVANCED** **MOTION PICTURE EDITING** **3.0 UNITS**

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: FILM 107 or equivalent with a grade of Pass or "C" or higher.
This course takes students through the more advanced features of Final Cut Studio 2 software 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. (Formerly TH 293)
Transfer Credit: CSU

FILM 294 **ADVANCED MOTION** **PICTURE PRODUCTION** **3.0 UNITS**

Class hours: 2.0 Lecture/4.0 Laboratory
Prerequisite: FILM 101, FILM 104, and FILM 107 or equivalents 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. (Formerly TH 254)
Transfer Credit: CSU

FILM 298 **DIRECTED STUDIES** **1.0 UNIT**

Class hours: 3.0 Lecture
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). 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

FILM 299 **DIRECTED STUDIES** **2.0 UNITS**

Class hours: 6.0 Lecture
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 (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

Course Descriptions

FINANCE

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES 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.

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.

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 include fractions and percentages, sales and purchasing cycles, sales tax, markups and markdowns, simple and compound interest, and finance charges.

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.

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.

Transfer Credit: CSU

FRENCH (LIBERAL ARTS DIVISION)

FREN 101 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 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 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 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

Course Descriptions

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 285

ROMANCE LINGUISTICS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: FREN 101 with a grade of Pass or "C" or higher.

This course will analyze the evolution of Romance languages from Latin. French utterances will be structured through phonological, morphosyntactic, and lexical norms. This course is not open to students who are enrolled in or have received credit in SPAN 285. This course is taught in English.

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 units for 54 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. 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 (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, MATH DIVISION)

GEOG 101

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

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). 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 (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, MATH DIVISION)

GEOLOGY

NATURAL HISTORY

OF SOUTHERN 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 a maximum of 2 times.

Transfer Credit: CSU

GEOLOGY

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

GEOLOGY

FIELD METHODS OF

THE EARTH SCIENCES

1.0 UNIT

Class hours: 3.0 Laboratory

Prerequisite: GEOL 101 or equivalent with a grade of Pass or "C" or higher, or concurrent enrollment.

This is a field-based laboratory course for geologic and environmental sciences. The geology, topography, structure, and ecology of the southwestern United States will be discussed in class then observed and investigated in the field. Samples and data collected from study areas may be further analyzed in a lab setting. Students will learn how to perform fundamental field techniques of the earth sciences, such as orienteering, surveying, mapping, and sampling. This course includes field trips.

Transfer Credit: CSU

GEOLOGY

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 fossil life of geologic time and exercises in the interpretation of earth history.

Transfer Credit: CSU; UC

GEOLOGY

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

GEOLOGY

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

GEOLOGY

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

GEOLOGY

NATURAL DISASTERS

3.0 UNITS

Class hours: 2.5 Lecture/1.5 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. The equivalent of three (3) one-day field trips is required and constitutes the laboratory portion of this course.

Transfer Credit: CSU; UC

GEOLOGY

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

Course Descriptions

number of hours in the semester expected to complete the project (1 unit for 54 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 (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

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

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

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

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

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.

Course Descriptions

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). 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 (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, DANCE/ ATHLETICS 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

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).

Course Descriptions

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 (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 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: 3.0 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, 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 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-I or Basic. This course may be taken for 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

Prerequisites: Current BLS-Healthcare Provider CPR card issued by the American Heart Association.

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 - I 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.

HO 53

ELECTROCARDIOGRAPHY

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 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

1.5 UNITS

Class hours: 1.0 Lecture/1.5 Laboratory

Recommendation: MA 161 or equivalent with a grade of Pass or "C" or higher.

This class provides instruction in the principles and practices of blood specimen collection required by the health care regulations in California. Completion of the course meets the following requirements: 1) complete didactic and partial practical to qualify for the examination for Certified Phlebotomy Technician I as defined by the Department of Health Services; 2) complete didactic and partial practical for Medical Assistant certification as defined by the California Society of Medical Assistants.

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

1.5 UNITS

Class hours: 1.5 Lecture

This course for allied health students will cover cardiopulmonary resuscitation and first aid. Topics will include one-and-two person CPR for infants, children, and adults; resuscitation will mask and bag-valve mask; automated external defibrillator (AED); and early intervention for wounds, burns, trauma, and sudden illness. A two-person CPR/AED card and a First Aid card will be earned with successful completion of the course.

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 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). 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

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 (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

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES 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 and HIST 103 combined: maximum credit, 2 courses.*

HIST 102

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

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

Course Descriptions

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 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: 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-Columbian 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

Course Descriptions

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. Major political, economic, social and cultural factors and issues are presented.
Transfer Credit: CSU; UC

HIST 241 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 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

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

Course Descriptions

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 Asiatic 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; UC

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,). 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 (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/COMMUNICATIONS 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 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). 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 (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, HUMANITIES, AND SOCIAL SCIENCES 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.

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, 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 Work Experience

One unit of Insurance 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

INTERDISCIPLINARY STUDIES

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES 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-

Course Descriptions

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.

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 appreciation of 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

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). This course may be taken a maximum of 2 times. For selected disciplines, UC transfer credit may be possible after admission to a

Course Descriptions

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 (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/COMMUNICATIONS DIVISION)

JOUR 50

EDITORIAL BOARD

1.0 UNIT

Class hours: 0.5 Lecture/2.0 Laboratory

Corequisite: JOUR 103 or JOUR 105 or JOUR 160.

Limitation of enrollment: editors of campus media.

This course focuses on leadership and management aspects in journalism using the school newspaper, Talon Marks, the online newspaper, talonmarks.com, and the school magazine, Wings, as practical laboratories. Enrollment is limited to those named to editor positions of these campus media. This course may be taken a maximum of 4 times.

JOUR 100

MASS COMMUNICATIONS AND SOCIETY

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

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 107

COLLEGE NEWSPAPER

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 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 writing and producing student news publications using the school newspaper, the Talon Marks and its online version, talonmarks.com, as a practical laboratory. Students research, write, and edit articles for the two publications; take photographs and create graphic illustrations; develop multimedia stories; and produce the print and online publications for distribution to a college-wide audience. Ethics and legal aspects of communication are also covered. This course may be taken a maximum of 4 times. Pass/No Pass option is available for non-journalism majors.

Transfer Credit: CSU

JOUR 111

INTRODUCTION TO NEWSLETTERS

1.0 UNIT

Class hours: 0.5 Lecture/2.0 Laboratory

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 next step: newsletter design.

Transfer Credit: CSU

JOUR 112

COPY EDITING SKILLS

1.0 UNIT

Class hours: 0.5 Lecture/2.0 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

Course Descriptions

JOUR 119 LEGAL ASPECTS OF MASS COMMUNICATIONS

1.0 UNIT

Class hours: 1.0 Lecture

This course provides a brief introduction to legal aspects faced by those involved in mass media and new media. Major topics include First Amendment rights and responsibilities, libel, privacy, copyright, freedom of information, open meetings, broadcast decency, and student media. This course is not open to students who are enrolled in or who have received credit in LAW119 or RTV 119.

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 TH 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.

Transfer Credit: CSU

JOUR 160 COLLEGE MAGAZINE PRODUCTION

1.0 UNIT

Class hours: 0.5 Lecture/2.0 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 in feature articles using, page design, and writing skills. This course

may be taken a maximum of 4 times.

Transfer Credit: CSU

JOUR 170 BROADCAST NEWS/ WEBCASTING

1.0 UNIT

Class hours: 0.5 Lecture/2.0 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: 1.0 Work Experience

Prerequisite: JOUR 101 or equivalent with a grade of Credit or "C" or higher.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

Course Descriptions

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). 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 (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, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

LAW 1T (Not Degree Applicable)

LEGAL-COMPUTER LAB

0.5 UNIT

Class hours: 1.0 Laboratory

Open Enry/Open Exit

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.

LAW 52

LAW OFFICE MANAGEMENT

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 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.

LAW 56

INTRODUCTION TO COMPUTERIZED LEGAL SOFTWARE

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

LAW 57

LEGAL DOCUMENT PRODUCTION

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. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

LAW 65

ADVANCED

LEGAL TECHNOLOGY

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 and enrollment in LAW 1T.

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.

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 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). 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

Course Descriptions

upon the number of hours in the semester expected to complete the project (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

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

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.

Transfer Credit: CSU

LAW 102 ADVANCED CALIFORNIA CIVIL PROCEDURES

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: LAW 100 with a grade of Pass or "C" or higher.

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

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.

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.

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.

Transfer Credit: CSU

LAW 106 BANKRUPTCY LAW

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 107 PROBATE PROCEDURES

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 108 FAMILY LAW PROCEDURES

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

Course Descriptions

LAW 109 TORTS & PERSONAL INJURY 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

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.

*Transfer Credit: CSU; UC**

*UC credit limits may apply. LAW 110, LAW 111 and BA 113 combined: maximum credit, one course.

LAW 111 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.

*Transfer Credit: CSU; UC**

*UC credit limits may apply. LAW 110, LAW 111 and BA 113 combined: maximum credit, one course.

LAW 112 ESTATE PLANNING FOR THE PARALEGAL 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 113 FUNDAMENTALS OF ALTERNATE DISPUTE RESOLUTIONS 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 114 LAW ON THE INTERNET 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 115 ELDER LAW 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 116 CRIMINAL LAW 3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 119 LEGAL ASPECTS OF MASS COMMUNICATIONS 1.0 UNIT

Class hours: 1.0 Lecture

This course provides a brief introduction to legal aspects faced by those involved in mass media and new media. Major topics include First Amendment rights and responsibilities, libel, privacy, copyright, freedom of information, open meetings, broadcast decency, and student media. This course is not open to students who are enrolled in or who have received credit in JOUR 119 or RTV 119.

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.

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.

Transfer Credit: CSU

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

Course Descriptions

LAW 171

LEGAL OCCUPATIONAL WORK EXPERIENCE

1.0 UNIT

Class hours: 1.0 Work Experience

One unit 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units. (Formerly BL 171)
Transfer Credit: CSU

LAW 172

LEGAL OCCUPATIONAL WORK EXPERIENCE

2.0 UNITS

Class hours: 1.0 Work Experience

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. Work experience courses may be taken for a maximum of 8 units

per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

LAW 173

LEGAL OCCUPATIONAL WORK EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience

Three units of Legal 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.
Transfer Credit: CSU

LAW 174

LEGAL OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

LAW 220

LANDLORD AND TENANT LAW

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 230

CORPORATE LAW

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

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.

Transfer Credit: CSU

LAW 260

IMMIGRATION LAW

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: LAW 56 with a grade of Pass or "C" or higher. Students in Paralegal courses are strongly recommended to enroll in LAW 1T.

Course Descriptions

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.

Transfer Credit: CSU

LAW 290 CAPSTONE COURSE-PARALEGAL PROGRAM

1.0 UNIT

Class hours: 1.0 Lecture

Recommendation: To be taken in the final semester of course work for certificate students, and to be taken in the final semester prior to graduation for Paralegal A.A. Degree students.

This course provides the opportunity for students to apply skills and knowledge learned in the other paralegal courses to evidence their mastering of the program outcomes for the Paralegal Program. The aim of the course is to assess students to confirm that they have achieved the learning outcomes for the program, to improve job-readiness, and to have them prepare a portfolio project.

Transfer Credit: CSU

LIBRARY

(LIBRARY, LRC AND ED TECH DIVISION)

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 that 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 offered on a pass/no pass basis. This course may be taken a maximum of 3 times.

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 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). 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 (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 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 MILLING

3.5 UNITS

Class hours: 3.0 Lecture/1.5 Laboratory

This course will prepare students to operate the MasterCAM Programming Systems for milling machines. Students will learn to create and import Computer Aided Design (CAD) geometry, create proper job plans, devise proper toolpaths, and input the resultant data into virtual Computer Numerical Control (CNC) milling machines.

MTT 52

SETUP AND OPERATION OF CNC MILLING MACHINES

2.5 UNITS

Class hours: 2.0 Lecture/1.5 Laboratory

This course instructs students in the safe and accurate setup and production operation of Computer Numerical Control (CNC) milling machines. 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 56

CNC SHOP INSPECTION

2.0 UNITS

Class hours: 2.0 Lecture

This course is designed to give the students 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

2.5 UNITS

Class hours: 2.0 Lecture/1.5 Laboratory

This course instructs students in the safe and accurate set-up and production operation of Computer Numerical Control (CNC) lathes. Students will learn how to load programs, select offset, select cutter radius compensation, and run first article parts.

Course Descriptions

MTT 58 COMPUTER-ASSISTED INSPECTION USING VERISURF 3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory
Prerequisite: MTT 56 or concurrent enrollment with a grade of Pass or "C" or higher.
This course advances the student's skill in the development of inspection methods for complex machined parts using Verisurf software. The student will learn the advanced aspects of dimensional metrology by using articulating arms, 3D scanners, and mechanical as well as programmable coordinate measuring machines to validate part geometry. Machine-specific software, such as PC-DMIS and FARO Gage, will also be introduced. Finally, the student will develop skills in preparing production part approval processes (PPAP).

MTT 59 MASTERCAM TURNING 2.5 UNITS

Class hours: 2.0 Lecture/1.5 Laboratory
This course will prepare students to operate the MasterCAM Programming Systems for lathes. Students will learn to create and import Computer Aided Design (CAD) geometry, create proper job plans, devise proper tool paths, and input the resultant data into virtual Computer Numerical Design (CNC) milling machines. Toolpaths will include facing, turning, grooving, threading, boring, and parting off.

MTT 60 ADVANCED MACHINE TOOL CONCEPTS 2.0 UNITS

Class hours: 2.0 Lecture
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 61 MASTERCAM MULTI-AXIS MILLING 1.5 UNITS

Class hours: 1.5 Lecture
Prerequisite: MTT 278 or equivalent with a grade of Pass or "C" or higher.
This course advances the student's skill in the programming of 4- and 5-axis milling machines using MasterCAM. Students will also learn to program Curve, Swarf, Flow, Multi, and Port surfaces and solids. Basic collision control strategies and rotary axis machining are fully incorporated into this class.

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 76 GIBBSCAM MILLING 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This course prepares students to operate the GibbsCam Programming System for milling machines. Students will learn to create and import Computer Aided Design (CAD) geometry, create proper job plans, devise proper toolpaths, and input the resultant data into virtual CNC machinery.

MTT 77 GIBBSCAM TURNING 2.5 UNITS

Class hours: 2.0 Lecture/2.0 Laboratory
This course prepares students to operate the GibbsCam Programming System for lathes. Students will learn to create and import Computer Aided Design (CAD) geometry, create proper job plans, devise proper toolpaths, and input the resultant data into virtual Computer Numerical Control (CNC) machinery. Toolpaths will include facing, turning, grooving, threading, boring, and parting off.

MTT 91L CNC MILL MACHINING LABORATORY 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: MTT 51 or MTT 76 and MTT 52, with grades of Pass or "C" or higher.
Corequisite: MTT 56 with a grade of Pass or "C" or higher or prior completion.
This course is designed to further develop specialized Computer Numerical Control (CNC) Milling Machine skills using Computer Assisted Manufacturing (CAM) software on a semi-autonomous basis. The student will receive instructions and blueprints from the instructor and work on those projects individually. The student will plan the work, select the programming method given the tolerances of the part, select the fixture, tools, and run a first article on a CNC Mill. This course may be taken a maximum of 4 times.

MTT 92L 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 students skill and output in areas of their choice. This course may be taken a maximum of 3 times.

MTT 93L 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 students skill and output in areas of their choice. This course may be taken a maximum of 3 times.

MTT 94L 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 95L CNC LATHE MACHINING LABORATORY 1.0 UNIT

Class hours: 3.0 Laboratory
Prerequisite: MTT 57 and MTT 59 or MTT 77 with grades of Pass or "C" or higher.
Corequisite: MTT 56 with a grade of Pass or "C" or higher or prior completion.
This course is designed to further develop specialized Computer Numerical Control (CNC) turning machine skills using Computer-Assisted Manufacturing (CAM) software on a semi-autonomous basis. The student will receive instructions and blueprints from the instructor and work on those projects individually. The student will plan the work, select the programming

method given the tolerances of the part, select the fixture, and tools, and run a first article on a CNC lathe. This course may be taken a maximum of 3 times.

**MTT 96L
CNC MULTI-AXIS MILL
MACHINING LAB 1.0 UNIT**

Class hours: 3.0 Laboratory
Prerequisite: MTT 91L or equivalent with a grade of Pass or "C" or higher.
Corequisite: MTT 61 or equivalent with a grade of Pass or "C" or higher, or prior completion.
This course is designed to further develop specialized Computer Numerical Control (CNC) Multi-Axis Milling Machine skills using Computer Assisted Manufacturing (CAM) software and hardware on a semi-autonomous basis. Students will receive instructions and blueprints of parts requiring 4- or 5-axis milling machining from the instructor and work on those projects individually. Students will plan the work, select the programming method given the tolerances of the part, select the fixture, tools, and run a first article on a multi-axis CNC Mill.

**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 170
COMPUTER NUMERICAL
CONTROL PROGRAMMING 2.0 UNITS**

Class hours: 2.0 Lecture
This course includes numerical control programming as applied to machine tools. Students will develop Computer Numerical Control (CNC) machine tool programs used to make manufactured parts. Computers will be used to input, develop, and proof CNC programs.
Transfer Credit: CSU

**MTT 177
ADVANCED GIBBS 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 advances the student's skill in the development of 3D surface models, solids, and toolpaths using GibbsCam. Students learn how to create programs to machine parts using four-and five-axis machinery. Students will also learn to create optimal programs for complex multi-turret, multi-spindel, and multi-tasking machine tools. Other topics include programming multiple parts on tombstones.
Transfer Credit: CSU

**MTT 180
ROBOTICS FOR COMPUTER
NUMERICALLY CONTROLLED
MACHINES 3.0 UNITS**

Class hours: 2.0 Lecture/3.0 Laboratory
This course introduces the student to the applications of robotics for computer numerically controlled (CNC) machines by the use of activities-based learning, project-based learning, and problem-based learning. The student will learn how to create a part using software and apply computer-generated toolpaths. The student will also learn about setup, operation, and programming of CNC machines. Techniques of integration between several CNC machines in a work cell environment will be emphasized using simulation and robotic applications.
Transfer Credit: CSU

**MTT 278
MASTERCAM ADVANCED 3.5 UNITS**

Class hours: 3.0 Lecture/1.5 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 toolpaths 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)
MANUFACTURING TECHNOLOGY
OCCUPATIONAL
WORK EXPERIENCE 3.0 UNITS**

Class hours: 1.0 Work Experience
One (1) hour control class each week plus 15 hours of employment per week for Manufacturing Technology Work Experience 43. The employment must be in a job related to the student's educational goal.
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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

**MFGT 44 (Not Degree Applicable)
MANUFACTURING TECHNOLOGY
OCCUPATIONAL
WORK EXPERIENCE 4.0 UNITS**

Class hours: 1.0 Work Experience
One (1) hour control class each week plus 20 hours of employment per week for Manufacturing Technology Work Experience 44. The employment must be in a job related to the student's educational goal.
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

Course Descriptions

job/training site. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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.

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 (SPC)

1.5 UNITS

Class hours: 1.5 Lecture

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 InTime (JIT) as well as other quality tools will be outlined and identified.

MFGT 56 ISO 9001:2008

1.5 UNITS

Class hours: 1.5 Lecture

This survey course is a study of ISO 9001:2008, the quality management standards established by the International Organization for Standardization, as it applies to the manufacturing industry. Materials covered will include the ISO 9001 documents and selected references on the topic. Special emphasis will be placed on the advantages of implementing an ISO 9001 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 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

3.0 UNITS

Class hours: 2.5 Lecture/1.5 Laboratory

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 LEAN SIGMA

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,

Course Descriptions

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, MATH DIVISION)

MATH 5 (Not Degree Applicable)

MATHEMATICS

LEARNING STRATEGIES

1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: Concurrent enrollment 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 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 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.

MATH 60 (Not Degree Applicable)

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 with placement in MATH 60 or above.

Recommendation: It is strongly recommended that MATH 5 and MATH 40 be completed within two years prior to the date of enrollment in MATH 60.

This course is a first course in algebra. Topics included are first-degree equations and inequalities, multiple representations of a linear relationship, linear systems of equations in two variables, polynomials, rational expressions, exponents and square roots, 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 with placement into MATH 80 or above.

Recommendation: It is strongly recommended that MATH 5 and MATH 60 be successfully completed within two years prior to the date of enrollment in MATH 80. Students who earn a "C" or lower in MATH 60 should consider MATH 80A rather than MATH 80.

This course is a second course in algebra. This course explores multiple representations of functions and relations. The types of functions studied will include linear, quadratic, exponential, and logarithmic. These functions will be used in solving a variety of equations and inequalities, systems of equations, and application problems. This course is not open to students with credit in 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 Readiness 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.

Course Descriptions

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 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 a maximum of 2 times.

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 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. Students who have not taken MATH 80 or MATH 80B must attain a satisfactory score on the Advanced Math Readiness Test.

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 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 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 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

Course Descriptions

MATH 116 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 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. Students who have not taken MATH 80 or MATH 80B must attain a satisfactory score on the Advanced Math Readiness Test.

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 PRECALCULUS MATH 4.0 UNITS

Class hours: 4.0 Lecture

Prerequisite: MATH 140 or equivalent with a grade of Pass or "C" or higher. Entering students must attain a satisfactory score on the Calculus Readiness Test.

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 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 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

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 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 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

Course Descriptions

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). 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 (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 ASSISTANT (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.

MA 68 MEDICAL ASSISTING INTERNSHIP EXPERIENCE 4.0 UNITS

Class hours: 1.0 Lecture/10.0 Laboratory
Prerequisite: MA 60, MA 62A, MA 62B, MA 64, MA 161, HO 53, HO 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 in a medical facility while receiving supervised instruction in direct patient care.

MA 73 MEDICAL ASSISTANT OCCUPATIONAL WORK EXPERIENCE 3.0 UNITS

Class hours: 1.0 Work Experience
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: MA 66 and MA 67 or prior completion with a grade of Pass or "C" or higher.

Course Descriptions

One (1) hour control class each week plus 15 hours of employment per week. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

MA 74

MEDICAL ASSISTANT OCCUPATIONAL WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

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: MA 66 and MA 67 or prior completion with a grade of Pass or "C" or higher.

One (1) hour control class each week plus 20 hours of employment per week. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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). 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 (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, MATH DIVISION)

MICR 200

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). 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 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 (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

Course Descriptions

MUSIC

(FINE ARTS/COMMUNICATIONS DIVISION)

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 5.0 UNITS

Class hours: 5.0 Lecture/2.0 Laboratory

Prerequisite: MUS 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: MUS 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.

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 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

Course Descriptions

little or no background in piano playing. This course may be taken a maximum of 2 times.
Transfer Credit: CSU; UC

MUS 113 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 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 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 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 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 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 an 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 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 study 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 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 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.
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 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 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 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 a maximum of 2 times.
Transfer Credit: CSU; UC

Course Descriptions

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 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 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 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 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 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 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 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 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 a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 131

PERCUSSION 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 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 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.

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 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 a maximum of 4 times.

Transfer Credit: CSU; UC

Course Descriptions

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 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 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 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 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 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: 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 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 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 pre-recorded media and transcribed solo study. This course may be taken 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,

Course Descriptions

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 techniques, improvisation, solo stylization, ensemble sound concepts, and the study of popular literature. This course may be taken 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 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.

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 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, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 138, 138A, 139, 140, 141, 142 or 154.

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 a maximum of 4 times.

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, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 138, 138A, 139, 140, 141, 142 or 154.

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 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, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 138, 138A, 139, 140, 141, 142 or 154.

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 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, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 138, 138A, 139, 140, 141, 142 or 154.

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 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, 124A, 125, 125A, 126, 127, 128, 129, 130, 131, 132, 133, 134, 136, 138, 138A, 139, 140, 141, 142 or 154.

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 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

Course Descriptions

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; 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 a maximum of 4 times.

Transfer Credit: CSU; UC

MUS 171 **OCCUPATIONAL WORK** **EXPERIENCE IN MUSIC** **1.0 UNIT**

Class hours: 1.0 Work Experience

One unit of Occupational Work Experience in Music 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 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). 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 (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

Course Descriptions

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)

NRS 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.

NRS 5 (Not Degree Applicable) REMOVING BARRIERS TO SUCCESS IN NURSING

2.0 UNITS

Class hours: 2.0 Lecture

Prerequisite: Acceptance to the Cerritos College Nursing Program pending remediation. 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 pass/no pass basis only. This course may be taken a maximum of 3 times.

NRS 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 a maximum of 3 times.

NRS 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.

NRS 47 (Not Degree Applicable) NURSING SKILLS LAB

1.0 UNIT

Class hours: 3.0 Laboratory

Open Entry/Open Exit

Corequisite: Enrollment in at least one of these Nursing Courses NRS 210, NRS 212, NRS 220, NRS 222, NRS 230, NRS 232, NRS 240, or NRS 242.

This course is designed to facilitate student learning of nursing skills and concepts through individualized and peer-group, and computer-mediated instruction. This course is offered on a pass/no pass basis only. This course may be taken a maximum of 4 time. (Formerly NRS 47T, AED 90.47)

NRS 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

Course Descriptions

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 pass/no pass basis only. This course may be taken a maximum of 3 times.

NRSG 80 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 I 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 with first semester of admission. Courses must be completed with a grade of Pass or "C" or higher to progress to the second semester.

Recommendation: NRSG 200 or NRSG 213A 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.

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

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 process. 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 Nursing Process as a dynamic, systematic way of delivering patient care is defined and demonstrated. Elements of the Roy Adaptation Model for Nursing are taught as the basis for assessing patient care needs. Students learn to apply

Course Descriptions

the Nursing Process and Roy Adaptation Model to clinical practice when planning and providing nursing care. Content also includes communication theory and application, client teaching concepts, assertion theory, and critical thinking foundational skills.

Transfer Credit: CSU

NRSG 220 MEDICAL-SURGICAL NURSING 3

5.5 UNITS

Class hours: 3.0 Lecture/7.5 Laboratory
Prerequisite: NRSG 211, 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 a grade 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 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 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 course.

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

Course Descriptions

for conferences. Credit is based upon the number of hours in the semester expected to complete the project (1 unit for 54 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 (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.

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

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Prerequisite: PHAR 62 with grade of Pass or "C" or higher.

Recommendation: Verification of typing proficiency at 30 wpm or BCOT 63 or equivalent with a grade of Pass 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 65

PHARMACY OPERATIONS IV - STERILE AND NON-STERILE COMPOUNDING

2.0 UNITS

Class hours: 2.0 Lecture/1.0 Laboratory

Prerequisite: PHAR 50 and PHAR 62 or equivalent with grades of Pass or "C" or higher.

This course will provide training in the art, science, and technology of pharmaceutical compounding. It is designed for the Pharmacy Technician major to develop proficiency in the skills necessary for successful compounding technique and practice in both the hospital and community pharmacy settings. This course includes the history and theory of pharmaceutical compounding, sterile preparation, use of dosage forms, rationale for use of various drug formulations, patient-specific criteria indicating alternative dosage forms, herbal alternatives, and drug manufacturing and packaging.

PHAR 73
PHARMACY TECHNICIAN
OCCUPATIONAL
WORK EXPERIENCE **3.0 UNITS**

Class hours: 1.0 Work Experience
 One (1) hour control class each week plus 15 hours of employment per week. The employment must be in a job related to the student's educational goal.
 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

PHAR 74
PHARMACY TECHNICIAN
OCCUPATIONAL
WORK EXPERIENCE **4.0 UNITS**

Class hours: 1.0 Work Experience
 One (1) hour control class each week plus 20 hours of employment per week. The employment must be in a job related to the student's educational goal.
 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 out-patient 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). 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 (2 units for 108 hours). This course may be taken a maximum of 2 times.

PHILOSOPHY

(BUSINESS, HUMANITIES, AND
SOCIAL SCIENCES DIVISION)

PHIL 100
INTRODUCTION
TO 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.
 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 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 IN PHILOSOPHY 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: ENGL 100 or equivalent with a grade of Pass or "C" or higher or satisfactory completion of the Advanced Placement 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

Prerequisite: Satisfactory completion of the English Placement Process with eligibility for ENGL 100 or complete ENGL 52 or equivalent with a grade of Pass or "C" or higher.

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 105 PHILOSOPHY OF ART AND BEAUTY 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 examine philosophical theories of aesthetics and philosophy of art by studying traditional and contemporary literary and other artistic expressions, while students are also engaged in understanding the fundamentals of philosophy.

Transfer Credit: CSU; UC

PHIL 106 INTRODUCTION TO LOGIC 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 107 PHILOSOPHY OF SCIENCE AND TECHNOLOGY 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Completion of the English placement process with eligibility for ENGL 100 or completion of ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This introductory level course will examine the nature of scientific reasoning and its relationship to technology, the development of modern technologies, and the impact of science and technology on society, personal life, and the environment. Major areas of philosophical inquiry will include metaphysics, epistemology, ethics, and aesthetics.

Transfer Credit: CSU; UC

PHIL 108 PHILOSOPHY OF THE AMERICAS 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Completion of the English placement process with eligibility for ENGL 100 or ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course will examine fundamental elements of metaphysics, epistemology, ethics, aesthetics, and political and social philosophy as found in four cultural worldviews: African-American philosophy, Anglo-American philosophy, Latin-American philosophy, and Native-American philosophy. This introductory course is designed to prepare students to analyze philosophical ideas and to critically assess commonality and divergence among these four worldviews on the subjects of human nature, moral community, freedom, truth, society, ultimate reality, economic justice, environment, and beauty.

Transfer Credit: CSU; UC

PHIL 109 PHILOSOPHY OF THE BODY, FEMINISM, AND GENDER 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Completion of the English placement process with eligibility for ENGL 100 or completion of ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course will examine philosophical scholarship on feminism, gender, and theory of the body in the areas of metaphysics, epistemology, ethics, and aesthetics. Questions about gender identity, the nature of the self and personal identity, friendship, the feminist conception of knowledge, feminism and philosophy of language, philosophy of religion, philosophy of science; misogynist patterns in philosophical texts, male responses to feminism, moral theories, and feminist questions about beauty and art will be examined in the course, while students are also engaged in understanding the fundamentals of philosophy. This course is not open to students who are enrolled in WS 109 or have received credit in WS 109.

Transfer Credit: CSU

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

Course Descriptions

PHIL 201

CONTEMPORARY 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 and twenty-first centuries, 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 that contemporary philosophers have developed in response to the problems of self and subjectivity; mind and consciousness; alienation, anxiety, and authenticity; gender, race, nationality, and social justice; relativism, universalism, realism; and the role of meaning and language in philosophical inquiry.

Transfer Credit: CSU; UC

PHIL 203

PHILOSOPHY OF RELIGION 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Completion of the English placement process with eligibility for ENGL 100 or completion of ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course will examine philosophical theories of the nature of religion, arguments for the existence of God, the nature of miracles, religious experience, faith and pragmatic reasons for belief, arguments from evil, God and morality, religious diversity, God and language, atheism and agnosticism, and life after death. The course will examine traditional and contemporary theories of philosophy of religion while students are also engaged in understanding the fundamentals of philosophy.

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 205

INTRODUCTION TO BIOETHICS 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Completion of the English Placement Process with eligibility for ENGL 100 or completion of ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This introductory course examines moral theories and philosophical implications relevant to biological and medical procedures, technologies, and treatments, such as organ transplantation, genetic engineering, and care of the terminally ill. This course also studies ethical problems arising from biological research and the application of biological research in other fields such as social and political policies, the environment, and professional careers in medical and some scientific fields. Students learn about the principles of philosophical reasoning and the fundamentals of philosophy while engaged in understanding the elements of bioethics.

Transfer Credit: CSU

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). 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 (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/COMMUNICATIONS DIVISION)

PHOT 100

INTRODUCTORY PHOTOGRAPHY 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, digital capture, 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 Credit 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 PHOT 110 or equivalent with a grade of Credit 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. 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 manually operable camera. This course is not open to students who are enrolled in or who have received credit in JOUR 130.

Transfer Credit: CSU

PHOT 150 PHOTOGRAPHY AND SOCIETY 3.0 UNITS

Class hours: 3.0 Lecture

This course will examine a variety of topics concerning the interface of photography and society. These include photography and the arts, propaganda and politics, photography and scientific observation, visual anthropology, the visual archive as historical memory, surveillance and power, issues of privacy and censorship, advertising and commodity culture, photojournalism, and the construction of celebrity through images. The manufacturing of personal identity and cultural history through photographic artifacts will be emphasized, as well. Analysis will focus on the way photographic images are used in society and how they help construct our sense of self and the world on a daily basis.

Transfer Credit: CSU; UC

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: 1.0 Work Experience

One unit of Occupational Work Experience in Photography 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 Credit 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 Credit 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

PHOT 232 APPROACHES TO STUDIO LIGHTING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 101 or equivalent with a grade of Credit 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 PHOT 100 and PHOT 110 or equivalent with grades of Credit 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 235 THE PHOTOGRAPHIC BOOK 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or PHOT 110 with a grade of Pass or "C" or higher.

Recommendation: ART 188 and ART 182A with grades of Pass or "C" or higher.

This is a course in the theory and practice of making photography books. Lectures and demos will present information regarding both handmade, one-of-a-kind photography art books and digital print-on-demand photography books. Topics include sequencing images, photography book history, contemporary applications, conceptual strategies, book structure and design.

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 Credit 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 250 CONTEMPORARY PHOTOGRAPHIC EXPRESSION 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

Prerequisite: PHOT 100 or equivalent with a grade of Credit 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 Credit 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). 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 (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, DANCE/ ATHLETICS 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 studied.

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.*

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 103 THEORY OF COACHING 3.0 UNITS

Class hours: 3.0 Lecture

This course will provide students with a foundation of components to begin a successful coaching career. Emphasis will be placed on ethics, team management, team practice organization, and coaching characteristics. This course will address coaching issues at all levels and age groups.

Transfer Credit: CSU

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**

Course Descriptions

**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 114 INTRODUCTION TO KINESIOLOGY 3.0 UNITS

Class hours: 3.0 Lecture
This introductory course is designed to provide students an overview of the study of Kinesiology. Students will study fundamental/introductory concepts associated in each area of Kinesiology, explore those concepts within research and applied contexts, and complete activities to build knowledge of the various dimensions. Theories will be studied from both sport and exercise perspectives. The application of Kinesiology content will also be discussed as it relates to professional development.

Transfer Credit: CSU

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 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.

This course is designed to provide cardiovascular fitness training. Emphasis is on individual assessment, programming and selection of training methods including a variety of training options for wheelchair and non-wheelchair user. This course may be taken 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 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 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 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 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 16 years old at start of semester to qualify for American Red Cross (ARC) certification "Lifeguard Training and Community First Aide and Safety." This course may be taken a maximum of 4 times.

Transfer Credit: CSU; UC

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

Course Descriptions

PE 127

ADAPTED STRETCHING & RELAXATION

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

Recommendation: Student should complete adapted physical education physician health clearance for participation, adapted physical education health history questionnaire, and intake interview assessment.

This course is designed for students with physical disabilities requiring an individualized exercise program of stretching and relaxation. Emphasis is on individual assessment, programming, and selection of stretching and relaxation techniques to develop and improve flexibility, as well as promote relaxation. This course may be taken 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 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 a maximum of 4 units.

*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 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, muscular 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 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 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 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 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 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 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 resistance 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 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 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 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

Course Descriptions

an effective songleader at the community college level. This course may be taken 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 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 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 140A

PHYSICAL FITNESS TRAINING

1.5 UNITS

Class hours: 0.8 Lecture/2.3 Laboratory

This course is designed to provide knowledge, resources, and a routine that promotes fitness awareness through a progressive training regimen. The students will participate in a physical conditioning program based on the use of training principles, fitness testing, a variety of exercises, and self-awareness surveys.

Transfer Credit: CSU

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 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 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, 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 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 145##

BASIC TRAINING AND PHYSICAL CONDITIONING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 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 course may be taken 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 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 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 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,

Course Descriptions

endurance, and flexibility. The student will participate in body sculpting exercises using various resistance techniques and equipment. This course may be taken 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 board 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 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 JOGGING 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 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 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 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 times.*

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 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 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 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 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 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 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 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 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 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.*

Course Descriptions

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 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 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 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 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 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 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 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 161A

TAE KWON DO, BEGINNING

1.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This course is designed to teach the student introductory elements of Tae Kwon Do with an emphasis on forms; eleven basic stances; three-step sparring; breakfalls; and basics of punches, blocks, and kicks. Instruction in the history and philosophy relevant to Tae Kwon Do will also be provided. This course may be taken a maximum of 2 times.

*Transfer Credit: CSU**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

PE 161B

TAE KWON DO,

INTERMEDIATE/ADVANCED

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory

Recommendation: Some knowledge and experience in Tae Kwon Do.

This course is designed to continue the student's learning to the intermediate/advance levels of Tae Kwon Do. Intermediate and advance versions of all techniques-including basic stances, sparring, punches, blocks, and kicks-will be introduced. In addition, breakfalls and Hapkido will be introduced. This course may be taken a maximum of 2 times.

*Transfer Credit: CSU**

**UC credit limits may apply. Any or all of these PE courses with ##'s combined: maximum credit, 4 units.*

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 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 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 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.*

All courses on this page are Title V Associate Degree applicable/credit courses unless otherwise noted.

Course Descriptions

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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.*

Course Descriptions

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 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 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 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 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 pre-season conditioning and training. This course may be taken 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 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 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 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 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 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. This course may be taken 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 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 218

SOCCER PRE-SEASON CONDITIONING

2.0 UNITS

Class hours: 1.0 Lecture/3.0 Laboratory
This course is designed to prepare the competitive soccer athlete through the analysis and training of soccer skills, various team offensive and defensive systems, and physical conditioning. This course may be taken 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.*

Course Descriptions

PE 219##

SOCCER, WOMEN

3.0 UNITS

Class hours: 10.0 Laboratory
Training for intercollegiate competition in soccer. This course may be taken 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 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 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 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 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 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 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 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 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 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. This course may be taken 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 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 236##

VOLLEYBALL PRE-SEASON

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 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 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 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 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 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 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

PE 271A

OCCUPATIONAL WORK EXPERIENCE ATHLETIC TRAINING 1.0 UNIT

Class hours: 1.0 Work Experience

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

Course Descriptions

PE 271B

OCCUPATIONAL

WORK EXPERIENCE IN FITNESS 1.0 UNIT

Class hours: 1.0 Work Experience

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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). 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 (2 units for 108 hours). 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, MATH 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

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

Course Descriptions

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 and PTA 120 or equivalent with grades 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, Jobs measurement and professional presentations.

Transfer Credit: CSU

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.

Course Descriptions

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 250

LICENSURE EXAMINATION PREPARATION

1.0 UNIT

Class hours: 1.0 Lecture

Prerequisite: PTA 246 or equivalent with a grade of Pass or "C" or higher.

This course is designed to assist the Physical Therapist Assistant student to prepare for the national and state law licensing examinations. Content will include the application process, the testing milieu, testing strategies, preparatory study techniques, and a review of material from the Content Outline published by the test editors.

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). 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 (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, MATH 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 95 (Not Degree Applicable)

INDIVIDUALIZED PHYSICS INSTRUCTION

0.5 UNIT

Class hours: 2.0 Laboratory

Open Entry/Open Exit

Corequisite: Enrollment in any physics course. 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 physics course. This

course is offered on a pass/no pass basis only. This course may be taken a maximum of 4 times. (Formerly AED 90.1)

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. Entering students must attain a satisfactory score on the Calculus Readiness Test.

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

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

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

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.

Course Descriptions

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 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 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). 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 (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.

Course Descriptions

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: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week for Plastics Work Experience 43. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

PMT 44 (Not Degree Applicable) PLASTICS MANUFACTURING TECHNOLOGY OCCUPATIONAL WORK EXPERIENCE 4.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 20 hours of employment per week for Plastics Work Experience 44. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 mold making 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

Course Descriptions

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 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 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 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 students 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/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, PMT 67, 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). 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 (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 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 students 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

(BUSINESS, HUMANITIES, AND
SOCIAL SCIENCES 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
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 citizen's 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

Course Descriptions

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

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). 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 (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 (BUSINESS, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

PSYC 101 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.

Course Descriptions

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.

This course is a broad survey of the psychological theories of human personality, encompassing the behaviorial, psychoanalytical and humanistic points of view. 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 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 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 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 abused 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 misused will be the focus. The societal and cultural influences on drug use/abuse, treatment, prevention, history, laws, and ethics will be covered in this course.

Transfer Credit: CSU; UC

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, SOC 202, and WS 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

Course Descriptions

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: 1.0 Lecture/6.0 Laboratory

Prerequisite: INST 151, INST 152, PSYC 101, PSYC 271, and PSYC 272 with grades of Pass or "C" or higher.

Corequisite: INST 272 with a grade of Pass or "C" or higher.

The field experience includes the practice of working with a Rehabilitation Team under the 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 component 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 an 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). 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 (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/COMMUNICATIONS DIVISION)

RTV 119

LEGAL ASPECTS OF MASS COMMUNICATIONS

1.0 UNIT

Class hours: 1.0 Lecture

This course provides a brief introduction to legal aspects faced by those involved in mass media and new media. Major topics include First Amendment rights and responsibilities, libel, privacy, copyright, freedom of information, open meetings, broadcast decency, and student media. This course is not open to students who are enrolled in or who have received credit in JOUR 119 or LAW 119.

Transfer Credit: CSU

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

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.

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.

Transfer Credit: CSU

RTV 170

BROADCAST NEWS/ WEBCASTING

1.0 UNIT

Class hours: 0.5 Lecture/2.0 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: 1.0 Work Experience

One unit of Occupational Work Experience in Broadcasting requires 60 non-paid hours or 75 paid hours of work per semester.

Work Experience/Career Internship provides

Course Descriptions

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

RTV 175 SPORTSCASTING 1.0 UNIT

Class hours: 0.5 Lecture/2.0 Laboratory
Prerequisite: RTV 155 or equivalent with a grade of Pass or "C" or higher.
Recommendation: ENGL 52, JOUR 101, or JOUR 106.

This course focuses on color and play-by-play announcing of Cerritos College sporting events using the college radio station as a practical laboratory. Students research and announce a variety of sports as they practice the skills of gathering information from a variety of sources. Students synthesize and edit their comments in real time. Ethical and legal aspects of communication are also covered. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

RTV 176 TALK RADIO BROADCASTING 1.0 UNIT

Class hours: 0.5 Lecture/2.0 Laboratory
Prerequisite: RTV 155 or equivalent with a grade of Pass or "C" or higher.
Recommendation: ENGL 52, JOUR 101, or JOUR 106.

This course focuses on various kinds of talk radio using the college radio station as a practical laboratory. Students research, host, and produce their own radio talk show. Students synthesize and edit their comments in real time. Ethical and legal aspects of communication are also covered. 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: Concurrent enrollment in or prior completion of 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). 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 (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.

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 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. 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). 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, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

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.

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

Course Descriptions

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.

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.

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.

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, and land and building residual techniques, are covered.

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.

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). 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 (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.

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.)

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, 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.)

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.)

Transfer Credit: CSU

RE 131 INTRODUCTION TO REAL ESTATE APPRAISAL 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 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.

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.

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.

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.

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.)

Transfer Credit: CSU

RE 172 REAL ESTATE OCCUPATIONAL WORK EXPERIENCE/ CAREER INTERNSHIP 2.0 UNITS

Class hours: 1.0 Work Experience

Two units of 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

RE 173 REAL ESTATE OCCUPATIONAL WORK EXPERIENCE/ CAREER INTERNSHIP 3.0 UNITS

Class hours: 1.0 Work Experience

Three units of Real Estate 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 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

Transfer Credit: CSU

Course Descriptions

RE 174

REAL ESTATE OCCUPATIONAL WORK EXPERIENCE/ CAREER INTERNSHIP

4.0 UNITS

Class hours: 1.0 Work Experience

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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.

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; UC

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

(BUSINESS, HUMANITIES, AND SOCIAL SCIENCES DIVISION)

SOC 101

INTRODUCTORY SOCIOLOGY PRINCIPLES

3.0 UNITS

Class hours: 3.0 Lecture

Sociology 101 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

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

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, immigration, 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

Course Descriptions

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, SOC 202, and WS 202 combined: maximum credit, one course.*

SOC 205

INTRODUCTION TO

SOCIAL RESEARCH METHODS

3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: SOC 101 or ANTH 100 or equivalent with a grade of Pass or "C" or higher.

Recommendation: ENGL 100 or equivalent and MATH 80 or equivalent with grades of Pass or "C" or higher.

Students will examine fundamental elements of empirical research and the ways social scientists think critically. This course includes attention to the nature of theory, hypotheses, variables, and ethics of research. Students will apply qualitative and quantitative analytical tools. Topics may include logic and research design, survey, observation, case study, focus groups, ethnographic methods, linguistic analysis, and historical/comparative research methods. This course is designed for students in the social sciences.

Transfer Credit: CSU; UC

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 of 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). 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 (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

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

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

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 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

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.
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 285
ROMANCE
LINGUISTICS 3.0 UNITS

Class hours: 3.0 Lecture
Prerequisite: SPAN 101 or SPAN 111 with a grade of Pass or "C" or higher.
This course will analyze the evolution of Romance languages from Latin. Spanish utterances will be structured through phonological, morphosyntactic, and lexical norms. This course is not open to students who are enrolled in or have received credit in FREN 285. This course will be taught in English.
Transfer Credit: CSU; UC

Course Descriptions

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). 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 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 (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 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

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

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

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.*

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

Course Descriptions

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 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 a maximum of 4 times.

Transfer Credit: CSU; UC TBD after admission.

SPCH 235 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 taken 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 taken 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 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 taken 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 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' Theatre production. Videotape is used as an evaluative tool.

Transfer Credit: CSU; UC

Course Descriptions

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). 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 (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 — 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 105

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 develop in normal monolingual and bilingual children and what factors characterize language disorders in children with special needs. The course will include 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. This course is recommended for students majoring in speech-language pathology; the Speech-Language Pathology Assistant Program; or elementary, preschool, or special education. This course is not open to students who received credit in SPCH 229. (Formerly SPCH 229).

Transfer Credit: CSU

SLP 110

NORMAL COMMUNICATION, DISORDERS, AND DIFFERENCES

4.0 UNITS

Class hours: 4.0 Lecture

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 120

PHONETICS LAB

0.5 UNIT

Class hours: 0.5 Lecture/0.5 Laboratory

Prerequisite: SLP 100 or equivalent with a grade of Pass or "C" or higher.

Corequisite: SLP 220.

This is a lecture/lab course designed to provide the student with skills and practice in phonetic transcription. Students will learn to 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 a maximum of 3 times. (Formerly SLP 120L)

Transfer Credit: CSU

SLP 125

CHILDHOOD DISORDERS

AND TREATMENT

5.0 UNITS

Class hours: 4.0 Lecture/3.0 Laboratory

Prerequisite: SLP 100 or equivalent with a grade 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 220

VOICE AND ARTICULATION

3.0 UNITS

Class hours: 3.0 Lecture

Corequisite: SLP 120 with a grade of Pass or "C" or higher.

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 verbal skills emphasizing precise articulation. Distinctive features of loudness, rate, pitch variation, vocal variety, and controlled respiratory patterns will also be studied. This course is not open to students who received credit in SPCH 271. (Formerly SPCH 271).

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.

Course Descriptions

This course introduces the student to the needs of non-oral children and adults, as well 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

5.0 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

2.0 UNITS

Class hours: 0.5 Lecture/4.5 Laboratory

Prerequisite: SLP 120, 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

2.0 UNITS

Class hours: 0.5 Lecture/4.5 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

THEATRE ARTS

(FINE ARTS/COMMUNICATIONS DIVISION)

TH 101

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 playwriting.

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 a maximum of 4 times.

Transfer Credit: CSU; UC

TH 107

ACTORS STUDIO

3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory

This course is a performance laboratory. Students will rehearse plays and/or projects, which they will perform for invited audiences. Emphasis will be upon developing acting skills, keeping production elements to a minimum. This course may be taken a maximum of 4 times.

Transfer Credit: CSU

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 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 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 a maximum of 4 times.

Transfer Credit: CSU

TH 110

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 a maximum of 2 times.

Transfer Credit: CSU; UC

TH 111

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.

Course Descriptions

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 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 a maximum of 2 times.

TH 120 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 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; UC

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 theatre. 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: 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 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: 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 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
Prerequisite: 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 "major" roles. The course may be taken 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 be assigned to running or preparation crews as scenery, lighting, costumes, sound, props, makeup, or house management. This course may be taken 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 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: 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 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: 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 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 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 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 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; 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; UC

TH 145 COSTUME PRODUCTION FOR DANCE 1.0 UNIT

Class hours: 1.0 Lecture/3.0 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 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: 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 taken 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: 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 musical instrument. This course may be taken 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 171 OCCUPATIONAL WORK EXPERIENCE IN THEATRE 1.0 UNIT

Class hours: 1.0 Work Experience
One unit of Occupational Work Experience in Theatre requires 60 non-paid 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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.
Transfer Credit: CSU

TH 208 ADVANCED IMPROV 3.5 UNITS

Class hours: 3.0 Lecture/2.0 Laboratory
Prerequisite: TH 108 or equivalent with a grade of Pass or "C" or higher.
This is an advanced course in the art and craft of acting without a script. Emphasis will be placed upon character, status, narrative,

group transformation, and transactional analysis as they apply to scene work and to long-form improv. This course may be taken a maximum of 2 times.
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 taken 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 a historical perspective. This course may be taken 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; UC

TH 222 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 223 PORTABLE ENTERTAINMENT TECHNOLOGY - LIGHTING 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Recommendation: TH 120, TH 133, or TH 134 or equivalent with grades of Pass or "C" or higher.
This course introduces the student to the principles and basic techniques of portable event staging. The class will cover procedures and practices involved in the general practices and lighting of entertainment events. This course may be taken a maximum of 2 times.
Transfer Credit: CSU

TH 224 PORTABLE ENTERTAINMENT TECHNOLOGY - AUDIO AND STAGING 3.0 UNITS

Class hours: 2.0 Lecture/3.0 Laboratory
Recommendation: TH 120, TH 133, or TH 134 or equivalent with grades of Pass or "C" or higher.
This course introduces the student to the principles and basic techniques of portable event staging. The class will cover procedures and practices involved in the staging and audio of entertainment events. This course may be taken a maximum of 2 times.
Transfer Credit: CSU

TH 225 PORTABLE EVENT PRODUCTION 2.0 UNIT

Class hours: 1.0 Lecture/5.0 Laboratory
Prerequisite: TH 223 or TH 224 or equivalent with grades of Pass or "C" or higher.
Recommendation: TH 120, TH 133, or TH 134 or equivalent with grades of Pass or "C" or higher.
This course requires the student to set up and run a live event using the skills acquired in the Portable Event Production classes. Students will work in the areas of staging, lighting, and audio on multiple live entertainment events that are open to the public. This course may be taken a maximum of 2 times.
Transfer Credit: CSU

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 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

Course Descriptions

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). 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: 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 the 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 (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

Recommendation: Concurrent enrollment in or completion of WELD 100 or WELD 120 or WELD 130 or equivalent.

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: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week for Welding Work Experience 43. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

WELD 44 (Not Degree Applicable)

WELDING OCCUPATIONAL

WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 20 hours of employment per week for Welding Work Experience 44. The employment must be in a job related to the student's educational goal.

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. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

WELD 50

BLUEPRINT READING FOR

THE WELDING TRADES

3.0 UNITS

Class hours: 3.0 Lecture

Recommendation: Concurrent enrollment in or completion of WELD 100 or WELD 120 or WELD 130 or equivalent.

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 4 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

Course Descriptions

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 tungsten arc welding (GTAW) procedures. This course may be taken a maximum of 2 times.

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). 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 (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, flux cored arc, and 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

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 grades 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

(BUSINESS, HUMANITIES, AND
SOCIAL SCIENCES 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,

Course Descriptions

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 109

PHILOSOPHY OF THE BODY, FEMINISM, AND GENDER 3.0 UNITS

Class hours: 3.0 Lecture

Prerequisite: Completion of the English placement process with eligibility for ENGL 100 or completion of ENGL 52 or equivalent with a grade of Pass or "C" or higher.

This course will examine philosophical scholarship on feminism, gender, and theory of the body in the areas of metaphysics, epistemology, ethics, and aesthetics. Questions about gender identity, the nature of the self and personal identity, friendship, the feminist conception of knowledge, feminism and philosophy of language, philosophy of religion, philosophy of science; misogynist patterns in philosophical texts, male responses to feminism, moral theories, and feminist questions about beauty and art will be examined in the course, while students are also engaged in understanding the fundamentals of philosophy. This course is not open to students who are enrolled in PHIL 109 or have received credit in PHIL 109.

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**

**UC credit units may apply. WS 202, PSYC 265 and SOC 202 combined: maximum credit, one course.*

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 student who have received credit in ECON 102.

Transfer Credit: CSU; UC

WS 208

LEADERSHIP FOR WOMEN IN BUSINESS 3.0 UNITS

Class hours: 3.0 Lecture

This course explores women's leadership, management, communication styles, and the vision and values women leaders bring to an effective environment in business. It is about balancing work/life and managing drive, ambition, adversity, commitment, networking, and achievement. It examines strategies for developing and encouraging skills that enable and allow women leaders and managers to succeed. This course is not open to students who are enrolled in BA 208 or have received credit in BA 208.

Transfer Credit: CSU

WS 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).

Course Descriptions

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

WS 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 (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

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.

WMT 43 (Not Degree Applicable)

WOODWORKING MANUFACTURING

TECHNOLOGIES OCCUPATIONAL

WORK EXPERIENCE

3.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 15 hours of employment per week for Woodworking Manufacturing Work Experience 43. The employment must be in a job related to the student's educational goal. Three units of Woodworking Manufacturing Occupational Work Experience requires 180 non-paid hours of work or 225 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for Woodworking 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 their major and job skills must be completed on the job/training site. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

WMT 44 (Not Degree Applicable)

WOODWORKING MANUFACTURING

TECHNOLOGIES OCCUPATIONAL

WORK EXPERIENCE

4.0 UNITS

Class hours: 1.0 Work Experience

One (1) hour control class each week plus 20 hours of employment per week for Woodworking Manufacturing Work Experience 44. The employment must be in a job related to the student's educational goal. Four units of Woodworking Manufacturing Occupational Work Experience requires 240 non-paid hours of work or 300 paid hours of work per semester.

Work Experience/Career Internship provides the opportunity for Woodworking 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 their major and job skills must be completed on the job/training site. Work experience courses may be taken for a maximum of 8 units per semester. The total work experience units taken by a student may not exceed 16 units.

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 units for 54 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 (2 units for 108 hours). This course may be taken a maximum of 2 times.

Course Descriptions

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 technique, 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

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 UNIT

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, makers, 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 120 ARTWORK FRAMING 3.0 UNITS

Class hours: 2.0 Lecture/4.0 Laboratory
This course introduces the student to the skills needed for framing artwork, photographs, archival media, and memorabilia. Topics include design principles, material selection, methods, and tools used for cutting and assembling frames, measuring and cutting mat materials, and hanging methods. Emphasis is placed on the selection and safe use of tools, choice of wood frame materials and finishes, and the proper selection of mats. This course may be taken a maximum of 2 times.
Transfer Credit: CSU

WMT 123 DECORATIVE BOXES 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 creation of heirloom quality decorative boxes. Advanced skills and techniques will be explored in the design and production of high-quality chests or boxes. Topics include historical styles, box types, materials, and design and construction processes. Emphasis

Course Descriptions

is placed on quality and safety. This course may be taken a maximum of 2 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 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. 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 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 a maximum of 2 times.

Transfer Credit: CSU

WMT 157 PASSAGE DOOR 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory
Prerequisite: WMT 151 or WMT 102 or WMT 103 or equivalent with a grade of Pass 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 introduces the student to the methods, materials, tools, and machinery used in the design, manufacturing, and installation of solid surface countertops, as well as the safe use of specialized machinery and materials involved in solid surface fabrication. 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 183 SKETCHUP FOR WOODWORKERS 3.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
Prerequisite: WMT 102 or WMT 103 or WMT 151 with a grade of Pass or "C" or higher.
Recommendation: WMT 130 with a grade of Pass or "C" or higher. Students should have basic knowledge of computer and file management.
This course introduces the student to Google SketchUp modeling software and its use in designing furniture and cabinet projects. Topics include software operations, modeling, model revision, presentation graphics, and drawing creation.
Transfer Credit: CSU

WMT 185 CNC WOODWORKING 3.0 UNITS

Class hours: 3.0 Lecture/1.0 Laboratory
This course introduces the student to AlphaCAM software and its use in woodworking operations on the computer numerical control (CNC) router. Topics include software operations, preparing G-Code instructions for the machine, and use of the CNC router. Emphasis is placed on design, planning, safety, and efficiency. 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 grades 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 table such as dining and conference tables, expanding table, and torsion box table top construction. Topics include 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 102 or WMT 103 or WMT 151 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 market, design, construction, and use of jigs and fixtures.
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 a maximum of 4 times.
Transfer Credit: CSU

**WMT 229L
COMPREHENSIVE WOODWORKING
MANUFACTURING SPECIALTY 2.5 UNITS**

Class hours: 8.0 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 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 237
TRADITIONAL
AMERICAN FURNITURE 4.0 UNITS**

Class hours: 2.5 Lecture/5.5 Laboratory
Prerequisite: WMT 103 or equivalent with a grade of Pass or "C" or higher.
Recommendation: WMT 102, WMT 118, and WMT 201.
This course is designed to increase the students' knowledge in the use of machine woodworking and woodworking hand tools and expand their understanding of wood technology. This advanced course will reinforce skills learned in previous courses and challenge the student to demonstrate the ability to plan, design, fabricate, reproduce, and finish a piece of traditional furniture. Students will construct woodworking projects that are relevant to the subject matter being taught during the same period of time. Topics include traditional American furniture (19th century and earlier) including: chairs, beds, and caseworks. Emphasis is placed on machine and hand tool skills and safety. 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 and WMT 101 or WMT 151 or equivalent with grades 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

Course Descriptions

WMT 243

ADVANCED WOOD VENEERING 4.0 UNITS

Class hours: 2.5 Lecture/5.5 Laboratory

Prerequisite: WMT 203 or equivalent with a grade of Pass or "C" or higher.

This course builds on the WMT 203 Wood Veneering course, introducing the student to more advanced veneering topics. Topics include parquetry, simple marquetry, inlay, sand shading, and curved panels for use in furniture and cabinet projects. This course may be taken a maximum of 2 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 grades 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. This 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 and WMT 201 with grades of Pass or "C" or higher. 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 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 or equivalent with a grade 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 tools 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 OF 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 mouldings, 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, milling, and 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 2.0 UNITS

Class hours: 6.0 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 and one of the following: WMT 102, WMT 103, WMT 153, WMT 155, WMT 181, or WMT 250 or equivalent with grades of Pass or "C" or higher or appropriate work experience.

Recommendation: WMT 154 or equivalent with a grade of Pass or "C" or higher.

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 2 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 and one of the following: WMT 102, WMT 103, WMT 153, WMT 155, WMT 181, or WMT 250 or equivalent with grades of Pass or "C" or higher or appropriate work experience.

Recommendation: WMT 154 or equivalent with a grade of Pass or "C" or higher.

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 and one of the following: WMT 102, WMT 103, WMT 153, WMT 155, WMT 181, or WMT 250 or equivalent with grades of Pass or "C" or higher or appropriate work experience.

Recommendation: WMT 154 or equivalent with a grade of Pass or "C" or higher.

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 Pass 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 a maximum of 2 times

Transfer Credit: CSU

ZOOLOGY

(SCIENCE, ENGINEERING, MATH 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

ADULT EDUCATION

(COMMUNITY, INDUSTRY, TECH EDUC)

AED 10.01 EXERCISE FOR SENIORS 0.0 UNIT

Class hours: 2.0 Lecture/4.0 Laboratory

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 0.0 UNIT

Class hours: 0.8 Lecture/0.8 Laboratory

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 0.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

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 FITNESS FOR OLDER ADULTS 0.0 UNIT

Class hours: 0.5 Lecture/1.0 Laboratory

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. This course may be repeated.

AED 10.08 EXERCISE FOR ADULTS 0.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

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 0.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

A slow cardiovascular workout for seniors, combining low-impact aerobics, walking, stretching, and strengthening of major muscle groups.

AED 10.10 MOVEMENT INTO FITNESS 0.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

This fitness program is designed for older adults to increase flexibility and strengthen major muscle groups. This course may be repeated.

AED 10.11 LT WTS/SENIORS: COND IN GYM 0.0 UNIT

Class hours: 3.0 Laboratory

An introduction to the use of light weights and weight machines in the gym to condition the various muscle groups of the body. The course is designed specifically for senior citizens.

AED 10.12 DEFENSE AWARENESS FOR SENIORS 0.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

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 0.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

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 0.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

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/ OLDER ADULT 0.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

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's 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/ OLDER ADULT 0.0 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 0.0 UNIT

Class hours: 3.0 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.

AED 14.04 THE ARTS COME ALIVE 0.0 UNIT

Class hours: 0.2 Lecture

A lecture-discussion course offering mature students an examination of how the Arts serve, influence, and stimulate their lives. Students will share what they consider as needs by which they may utilize and enjoy fine arts with a major purpose of shaping an ongoing course in the Arts to serve senior citizens. Lecture discussion will relate to philosophical and societal basic of arts with contemporary art movements explored, especially the performing arts.

Course Descriptions

AED 14.07

MUSIC APPRECIATION/ SENIORS

0.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory

Music program designed to encourage verbal expression, physical movement, and social interaction through song and music listening.

AED 14.08

CREATIVE ARTS/ CRAFTS/ADULTS

0.0 UNIT

Class hours: 2.0 Laboratory

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 the creation of original art forms, such as sculpture, painted items or original designs.

AED 14.09

ARTS & CRAFTS FOR ADULTS

0.0 UNIT

Class hours: 2.0 Laboratory

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 well as technique. This course may be repeated.

AED 14.10

CRAFTS FOR SENIORS

0.0 UNIT

Class hours: 1.0 Lecture/1.0 Laboratory

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

0.0 UNIT

Class hours: 2.0 Lecture/2.0 Laboratory

A quilting frame for the old time "quilting bee" atmosphere is center stage for class. Students can participate in hand quilting, quilt 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

0.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

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, deportment, 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/ OLDER ADULT

0.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

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: HISTORY AND APPRECIATION

0.0 UNIT

Class hours: 3.0 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

0.0 UNIT

Class hours: 1.5 Lecture/1.5 Laboratory

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. This course may be repeated.

AED 16.14

ADULT FOUR-PART CHORUS FOR SENIORS

0.0 UNIT

Class hours: 1.5 Lecture/1.5 Laboratory

This course will examine the fundamentals of vocal techniques for four-part groups including proper warm-up techniques, vocal pedagogy, physiology of singing,

musicianship, performance techniques and instructor-guided practice, and learning and singing a four-part harmony.

AED 22.07

STRETCHING THE DOLLAR

0.0 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 22.08

LIFE SKILLS

0.0 UNIT

Class hours: 3.3 Lecture

The Life Skills course is designed for people who require a training program that is easily accessible and readily available. The course is tailored for those who desire greater self-confidence and wish to improve their interpersonal skills in the workplace. The course will allow students to build a broad range of knowledge in several areas. Building self-esteem, managing stress, setting goals, and learning how to communicate effectively are some of the skills students will learn and practice.

AED 22.09

TOPICS OF INTEREST SENIORS

0.0 UNIT

Class hours: 2.0 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 22.10

VOTER EDUCATION/ SENIOR CITIZEN

0.0 UNIT

Class hours: 0.4 Lecture

Effective voter education demonstrates to voters how political issues affect them and how their votes make a difference. This course is designed to prepare the older adult to execute his/her franchise to vote in an informed manner.

AED 22.11

CONTEMPORARY ISSUES/ ADULTS

0.0 UNIT

Class hours: 0.7 Lecture

Designed to provide older adults with avenues for communication with city/community officials.

AED 23.48

POSITIVE PARENTING

0.0 UNIT

Class hours: 3.3 Lecture

This course is designed to help interested persons develop parenting skills. This course will examine the critical stages of child and adolescent development and offer positive suggestions to aid each parent in helping his child's growth. Also recognized will be diverse present-day family styles such as one-parent, step, blended, and two-parent families, as well as families with both parents working. The joy of parenting will be stressed as well as the individual parenting concerns of each person attending.

AED 24.03

ADULT NUTRITION

0.0 UNIT

Class hours: 0.7 Laboratory

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

0.0 UNIT

Class hours: 0.5 Lecture/1.5 Laboratory

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 student will learn to select well-balanced meals, whether the meals are purchased or prepared at home. This course may be repeated.

AED 36.01

OCCUPATIONAL ORIENTATION

0.0 UNIT

Class hours: 4.0 Lecture

The Occupational Orientation/Preparation course is designed to prepare students to enter a new job position and/or advance in the workplace. The goal of the course is to build a broad range of knowledge in basic job competencies, evaluate personal abilities regarding vocational areas, and to provide job readiness skills to those seeking employment. The course will allow students to acquire skills that will allow them to be competitive in the job market.

AED 36.02

INTRODUCTION TO THE BUILDING TRADES AND CONSTRUCTION INDUSTRY

0.0 UNIT

Class hours: 2.0 Lecture

This course is intended to introduce students to the wide spectrum of careers that are available in the Building Trades and Construction Industry. The students will receive the foundational knowledge and basic skills required for entry into postsecondary education (Apprenticeship Program) and employment in the Building Trades and Construction sector. This course will integrate academic and technical preparation, with an emphasis on career awareness, career exploration and skill preparation.

AED 36.03

BASIC READING SKILLS FOR THE BUILDING TRADES AND CONSTRUCTION INDUSTRY

0.0 UNIT

Class hours: 2.0 Lecture

This course is intended to help students understand the foundational knowledge required for entry into postsecondary education (Apprenticeship Program) and employment in the Building Trades and Construction sector. The course is designed to develop reading skills that can be applied to the various building and construction trades.

AED 36.04

BASIC MATH SKILLS FOR THE BUILDING TRADES AND CONSTRUCTION INDUSTRY

0.0 UNIT

Class hours: 2.0 Lecture

This course is intended to help students understand the foundational knowledge required for entry into postsecondary education (Apprenticeship Program) and employment in the Building Trades and Construction sector. The course is designed to develop mathematical skills that can be applied to the building trades and construction industry through practice and application.

AED 36.05

INTRODUCTION TO BASIC WELDING FOR THE BUILDING TRADES AND CONSTRUCTION INDUSTRY

0.0 UNIT

Class hours: 2.0 Lecture/3.0 Laboratory

This course is intended to provide students with the foundational knowledge and basic skills required for entry into postsecondary education (Apprenticeship Program)

and employment in the Building Trades and Construction industry. The course will train students in gas welding, as well as any combination of arc welding processes, thus allowing them to be able to weld metal parts and layout materials, as specified by diagrams, blueprints, or written specifications. Students will also be trained on how to safely use different tools and equipment designed for metal fabrication.

AED 39.01

INTRODUCTION TO PAINTING/ COATING/DECORATING TRADES

0.0 UNIT

Class hours: 2.2 Lecture

This course is an introductory course in a series of specialty courses for people involved in the painting/coating/decorating industry. Emphasis will be placed on safety and the overall aspects of this specialty industry. Demonstrations will cover basic surface preparation and application of materials.

AED 39.02

PROFESSIONALISM IN PAINTING TRADES/ JOB PLANNING AND SURFACES

0.0 UNIT

Class hours: 2.2 Lecture

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 demonstrations will cover surface preparation and application of materials.

AED 39.03

INTRODUCTION TO PAINTS, COATINGS, SEALANTS, REPAIRS AND FILLERS, AND SURFACE CONDITIONS

0.0 UNIT

Class hours: 2.2 Lecture

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 **0.0 UNIT**

Class hours: 2.2 Lecture

This is the fourth course in a series of specialty courses developed for people in the painting and decorating industry. Emphasis will be placed on application techniques and potential problems in these painting processes. Demonstrations will include applications of flat and enamel coatings for interior and exterior surfaces. Jobsite cleanup will be addressed.

AED 39.05
JOB PLAN FOR PAINT/COAT **0.0 UNIT**

Class hours: 1.8 Lecture/0.4 Laboratory

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 demonstrations in the areas of job safety, materials planning, equipment planning, and important factors related to paint failures and remedies. Lectures 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 **0.0 UNIT**

Class hours: 1.3 Lecture/0.9 Laboratory

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 & ROLL **0.0 UNIT**

Class hours: 0.9 Lecture/1.3 Laboratory

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, wallcoverings, decorative finishes, and interior brush and roll.

AED 39.08
APPLICATION & PREPARATION,
FAILURES & REMEDIES, AND
EXTERIOR BRUSH & ROLL **0.0 UNIT**

Class hours: 1.3 Lecture/1.9 Laboratory

This is the eighth course in 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 & CONTROL,
COLOR TINTING,
AND WALLCOVERINGS **0.0 UNIT**

Class hours: 1.1 Lecture/1.1 Laboratory

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, WOOD FINISHING,
AND SPRAYING WITH SPECIAL
AND ELECTRONIC DEVICES **0.0 UNIT**

Class hours: 1.1 Lecture/1.1 Laboratory

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 stains to wood, and spraying with devices.

AED 39.11
HIGH PERFORMANCE COATINGS,
PRIMERS, URETHANES & EPOXIES,
ARCHITECTURAL DRAWINGS
& GRAPHICS **0.0 UNIT**

Class hours: 1.8 Lecture/0.4 Laboratory

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 area of primers, urethanes, epoxies, blueprints, graphics, quality control, and graining.

AED 39.12
WALLCOVERING APPLICATION **0.0 UNIT**

Class hours: 0.4 Lecture/1.8 Laboratory

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 hands-on training in the areas of preparation, hanging, and correcting defects.

AED 40.00
IW-MIXED BASE-STRUCTURAL **0.0 UNIT**

Class hours: 2.2 Lecture/0.8 Laboratory

This course will acquaint the apprentice with specifications that constitute a safe and healthy 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 **0.0 UNIT**

Class hours: 0.2 Lecture/0.2 Laboratory

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.

Course Descriptions

AED 40.05

IW-ADVANCED WELDING 0.0 UNIT

Class hours: 1.3 Lecture/1.3 Laboratory
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 40.07

FIW-ORIENTATION 0.0 UNIT

Class hours: 2.8 Lecture
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 information, rigging, structural steel, welding and burning, and reinforcing iron.

AED 40.08

IW-EXTENSION AND REVIEW 0.0 UNIT

Class hours: 2.2 Lecture/0.5 Laboratory
This course will offer a study review of the practices and procedures used in the field of ironworking. The purpose is to strengthen the competencies and complete the training requirement of a journeyperson.

AED 40.09

IW-GEN RIGGING/ REINFORCING 0.0 UNIT

Class hours: 1.8 Lecture/0.7 Laboratory
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

IW-WELDING I/REINFORCING 0.0 UNIT

Class hours: 1.3 Lecture/1.4 Laboratory
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

IW-WELDING II/REINFORCING 0.0 UNIT

Class hours: 1.6 Lecture/0.9 Laboratory
This course will introduce the apprentice to a basic understanding of the structure 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

IW-REINFORCING IRON I 0.0 UNIT

Class hours: 2.1 Lecture/0.7 Laboratory
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 construction 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 40.15

IW-REINFORCING IRON II 0.0 UNIT

Class hours: 1.8 Lecture/0.7 Laboratory
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 40.21

IW-STRUCTURAL STEEL I 0.0 UNIT

Class hours: 2.5 Lecture/0.8 Laboratory
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

IW-STRUCTURAL STEEL II 0.0 UNIT

Class hours: 2.2 Lecture/1.1 Laboratory
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

IW-METAL BUILDING ERECT I 0.0 UNIT

Class hours: 1.0 Lecture/0.5 Laboratory
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, and assembly of prefab buildings.

AED 40.50

IW-MIXED BASE-REINFORCING 0.0 UNIT

Class hours: 1.8 Lecture/0.7 Laboratory
This course will acquaint the apprentice with specifications that constitute a safe and healthy 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 40.52

IW-ORIENTATION 0.0 UNIT

Class hours: .88 Lecture/1.33 Laboratory
Prerequisite: Current applicant with Field Ironworker Apprenticeship.
This course provides an orientation to the reinforcing ironworker trade. Students will be able to explore careers for ironworkers and enhance their potential to succeed in a post secondary education program through the Ironworker Apprenticeship /Trade Programs. The course identifies the basic academic and physical skills needed to be a successful ironworker. Emphasis will be placed on trade specific techniques for the installation of rebar as well as construction safety. This class is intended to provide a hands-on approach to job-site conditions that will ease the transition from being a candidate to apprentice.

AED 40.53

DETAILING/REINFORCING IRON 0.0 UNIT

Class hours: 2.5 Lecture/0.6 Laboratory
This course will provide insight into the job performed by the detailer of reinforcing iron. Content includes reading and interpreting

Course Descriptions

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 blue prints are covered.

AED 40.54

IWS-REINFORCING DETAIL II 0.0 UNIT

Class hours: 2.4 Lecture/0.6 Laboratory

This course will provide knowledge, procedures and practices employed by the detailer of reinforcing iron in the preparation of placing drawings and bar lists. 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

IWS-REINFORCING OSHA 500 0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

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 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

IWS-REI/ IRONWORKER HISTORY 0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

This course instructs the apprenticeship student about the history of the Ironworker union from its birth in 1896 to the present.

AED 40.57

IWS-REINFORCING LEAD HAZARD 0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

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

IWS-STRUCTURAL ARCH ORN I 0.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

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

IWS-STRUCTURAL PRECAST CON 0.0 UNIT

Class hours: 1.7 Lecture/1.1 Laboratory

The course provides knowledge, coordination task elements and skills 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

IWS-STL/ IRONWORKER HISTORY 0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

This course deals with the history of the Ironworkers Union from its birth in 1896 up to the present time.

AED 40.63

IWS-STRUCTURAL LEAD HAZARD 0.0 UNIT

Class hours: 3.0 Lecture

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 41.03

IW - REINFORCING II 0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

This course provides students 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 III 0.0 UNIT

Class hours: 1.7 Lecture/1.1 Laboratory

This course teaches the ironworker how to erect storefronts and entrance ways and how to install the various types of 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, ladders, toilet partitions, vanity supports, relief angles and flagpoles and how to install chain link fences.

AED 41.05

IW - ARCHITECTURAL II 0.0 UNIT

Class hours: 1.7 Lecture/1.1 Laboratory

This course will teach 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 student 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 0.0 UNIT

Class hours: 1.7 Lecture/1.1 Laboratory

This course provides the student with training in structural steel erection including history, safety, planning and scheduling, handling materials, and erecting structural steel members.

Course Descriptions

AED 41.07

POST-TENSION II

0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

This course is designed to provide the ironworker student with training in post-tension 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 principles and theories of post-tensioning and identify the components of single-strand unbonded tendon systems 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

0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

This course provides the ironworker student with training in post-tensioned reinforcing, including single-strand unbonded system 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

IW - WELDING III - REINFORCING

0.0 UNIT

Class hours: 2.2 Lecture/0.6 Laboratory

This course will introduce the apprentice to shop safety in welding and burning. 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 42.02

MEDIATION IN BASIC SKILLS

0.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

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 ESL

0.0 UNIT

Class hours: 6.0 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

0.0 UNIT

Class hours: 5.0 Lecture

This course is designed to prepare the adult student for college English. It is aimed at improving reading, writing, and grammar skills.

AED 42.05

SUPERVISED TUTORING

0.0 UNIT

Class hours: 3.0 Laboratory

This course is intended to give students in need of special supplemental instruction in a basic skills subject area an opportunity to develop and improve their skills and/or knowledge of the subject. It is an open entry/open exit course. Students enrolled in the course are limited to thirty (30) hours per semester.

AED 42.06

BASIC SKILLS (RANCHO)

0.0 UNIT

Class hours: 1.0 Lecture/2.0 Laboratory

This course is designed for students who require mediation between 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 42.07

INDEPENDENT MEDIATION LAB

0.0 UNIT

Class hours: 8.0 Laboratory

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

0.0 UNIT

Class hours: 3.0 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 PREP-A

0.0 UNIT

Class hours: 6.0 Lecture

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 from 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 PREP-B

0.0 UNIT

Class hours: 6.0 Lecture

This course will prepare student 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 the battery of GED tests.

AED 42.12

GED PREPARATION-A

0.0 UNIT

Class hours: 6.0 Lecture

This course will prepare students for the writing and social studies components of the GED examination. 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 tests.

AED 42.13 GED PREPARATION-B 0.0 UNIT

Class hours: 6.0 Lecture

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 experiences, television, radio, books and newspapers, consumer products, and advertising. Students will be prepared to take the battery of GED tests.

AED 42.14 LOW BEGINNING ENGLISH AS A SECOND LANGUAGE 0.0 UNIT

Class hours: 6.0 Lecture

This second course in a series is designed as a Low Beginning English as a Second Language course for those students transitioning from the Survival Level English as a Second Language course or those students with minimal English language skills. All language learning skills will be utilized: reading, writing, listening, and speaking with an increasing interest in vocabulary building to generate language production and conversation.

AED 42.15 HIGH BEGINNING ENGLISH AS A SECOND LANGUAGE 0.0 UNIT

Class hours: 6.0 Lecture

This third course in a series is designed for those students transitioning from the Low Beginning English as a Second Language course or for those students with some English language skills. All language learning skills will be utilized: reading, writing, listening, and speaking, with an increasing emphasis on language production and conversation in preparation for future vocational and academic work.

AED 42.16 LOW INTERMEDIATE ENGLISH AS A SECOND LANGUAGE 0.0 UNIT

Class hours: 6.0 Lecture

This fourth course in a series is designed as a Low Intermediate English as a Second Language course for those students transitioning from the High Beginning English as a Second Language course or those students with moderate English language skills. All language learning skills will be utilized: reading, writing, listening, and speaking, with an increasing interest in language production and conversation.

AED 42.17 HIGH INTERMEDIATE ENGLISH AS A SECOND LANGUAGE 0.0 UNIT

Class hours: 6.0 Lecture

This fifth course in a series is designed as a High Intermediate English as a Second Language course for those students transitioning from the Low Intermediate English as a Second Language course or those students with moderate English language skills. All language learning skills will be utilized: reading, writing, listening, and speaking with an increasing interest in language production and conversation. The emphasis of this course is to prepare for transitioning into the appropriate ESL Credit course.

AED 43.00 INTRO ROOFING/WATERPROOF 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

This course is designed to give students an introduction to the apprenticeship program for the roofing and waterproofing industry. Topics covered will include safety, use of tools and equipment, types of roofs, and structural design.

AED 43.01 COMMON ROOFING/ WATERPROOF 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

This course covers the preparation and application of various roofing and waterproofing materials including asphalt products, elastomeric and plastic membrane, flashing materials, fasteners, and operating and maintenance of small engines.

AED 43.02 ROOFERS-CPR AND FIRST AID 0.0 UNIT

Class hours: 0.2 Lecture/0.2 Laboratory

This course on cardiopulmonary resuscitation (CPR) and standard first aid 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 43.03 BUILT-UP ROOF ASSEMBLIES 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

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 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

This course is on the preparation and application of cold-applied roofing systems and their related components.

AED 43.05 ROOF SHINGLES/ TYPES/APPLICATION 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

This course covers the application and maintenance of various roofing shingle systems.

AED 43.06 RIGID ROOFING 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

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 MAINT, REPAIRS, REROOFING 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

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 SPECIFICATIONS 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

This course is on the development and application of plans, specifications, regulations, and cost estimating for the roofing and waterproofing industry.

AED 43.09 SINGLE-PLY ROOF/ WATERPROOF 0.0 UNIT

Class hours: 1.3 Lecture/0.4 Laboratory

This course covers the application and maintenance of single-ply roofing and waterproofing systems.

AED 48.01 VOCATIONAL ENGLISH 0.0 UNIT

Class hours: 2.0 Lecture/2.0 Laboratory

Basic knowledge of fundamental grammar necessary for practical usage; spelling, punctuation, and minimum skill in writing and speaking necessary to communicate effectively and appropriately.

Course Descriptions

AED 48.02

SENIOR BOOKS COME ALIVE 0.0 UNIT

Class hours: 1.5 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 0.0 UNIT

Class hours: 2.0 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 0.0 UNIT

Class hours: 1.5 Laboratory

This course is designed to increase receptive and expressive language skills in the senior citizen, as well as improve non-verbal body language, and develop a higher self-confidence through positive interaction with others. This course may be repeated.

AED 49.01

PREPATORY MATH 0.0 UNIT

Class hours: 2.0 Lecture/2.0 Laboratory

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 0.0 UNIT

Class hours: 4.5 Lecture

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 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 knowledge via class discussions, reading print material, attending field trips, and by sharing their vocational experiences 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 0.0 UNIT

Class hours: 3.0 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 49.04

CAHSEE MATH A PREPARATION 0.0 UNIT

Class hours: 4.0 Lecture

This course prepares students to review and pass the Math section of the California High School Exit Exam using vocational contexts for learning activities. This course specifically focuses on basic skills.

AED 49.05

CAHSEE MATH B PREPARATION 0.0 UNIT

Class hours: 4.0 Lecture

This course prepares students to review and pass the math section of the California High School Exit Exam using vocational contexts for learning activities. This course specifically focuses on Algebra skills.

AED 49.06

CAHSEE ENGLISH PREPARATION 0.0 UNIT

Class hours: 4.0 Lecture

This course prepares students to review and pass the English section of the California High School Exit Exam using a vocational context for learning activities.

AED 60.01

CITIZENSHIP I 0.0 UNIT

Class hours: 4.0 Lecture

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

INTRO TO ELECTRICAL TRADES 0.0 UNIT

Class hours: 3.4 Lecture/1.0 Laboratory

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

BASIC ELECTRICAL THEORY 0.0 UNIT

Class hours: 3.4 Lecture/1.0 Laboratory

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

ELEC THEORY & APPLICATION 0.0 UNIT

Class hours: 3.4 Lecture/1.0 Laboratory

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

BASIC ELECTRICAL THEORY 0.0 UNIT

Class hours: 3.4 Lecture/1.0 Laboratory

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 INSTALLATION 0.0 UNIT

Class hours: 3.4 Lecture/1.0 Laboratory

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, overcurrent protection, raceways, box and fitting fill requirements, wiring devices, distribution equipment, and distribution system transformers.

Course Descriptions

AED 80.06 ECT LIGHT/ MOTOR & HVAC SYSTEMS 0.0 UNIT

Class hours: 3.4 Lecture/1.0 Laboratory
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, and motor maintenance, motor controls, electricity in HVAC system, and hazardous locations.

AED 80.07 ECT IND LIGHT LOAD & THEORY 0.0 UNIT

Class hours: 3.4 Lecture/1.0 Laboratory
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, commercial/industrial lighting, specialty lighting, stand-by and emergency systems, basic electronic theory, fire alarm system.

AED 80.08 ECT ADV THEORY & APPLICATIONS 0.0 UNIT

Class hours: 4.0 Lecture/1.0 Laboratory
This is course number eight, the last in a 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 0.0 UNIT

Class hours: 0.3 Lecture/0.3 Laboratory
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 0.0 UNIT

Class hours: 1.0 Lecture
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 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
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 ducts are identified. This course describes air distribution systems and their components, air flow measurement, duct-work installation principles, and the use of 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 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
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 ductwork fittings and self-paced learning of layout and fabrication problems requiring the triangulation method are 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 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
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 particulate.

AED 80.14 HVAC I 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
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 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
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 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
This course instructs trainees in preventive maintenance of HVAC system. Students will become familiar with the different types of troubleshooting and serving of heating systems.

AED 80.17 HVAC IV 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory
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 TECH I 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory

This course introduces the Electronic Systems 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 TECH II 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory

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 0.0 UNIT

Class hours: 3.0 Lecture/1.0 Laboratory

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 0.0 UNIT

Class hours: 1.6 Laboratory

This course is the beginning course for the "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 0.0 UNIT

Class hours: 1.6 Laboratory

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 0.0 UNIT

Class hours: 3.2 Laboratory

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 benders 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 termination's, splices, and the installation of electric services, circuit breakers and fuses, conductors and relays, and the basic principles of electrical lighting.

AED 80.24
ELECTRICAL CRAFT TRAINING - LEVEL III 0.0 UNIT

Class hours: 3.2 Laboratory

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 characteristics 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 0.0 UNIT

Class hours: 3.2 Laboratory

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 transformers, principles and practical applications of solid state controls, Heating and Ventilating, and Air Conditioning (HVAC) controls. A brief introduction to welding machine types and how they operate will be covered. Students will continue their training in motor maintenance techniques. An overview of high voltage terminators and splices and National Electric Code (NEC) and cable manufacturers requirement will be covered.

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)

Assistant Professor
Anthropology
 B.A., California State University, Fullerton
 M.A., State University of New York, Binghamton

ABING, JOSEPH (2003)

Instructor/Coach
Physical Education/Athletics
 B.A., University of California, Los Angeles
 M.Ed., Azusa Pacific University

ABORN, LUCINDA (2006)

Dean of Disabled Student Programs & Services
 B.A., Southwest Texas State University
 M.A., California State University, Northridge
 Ph.D., University of Northern Colorado

ALENIKOV, TERESA (2002)

Professor
Accounting/Finance
 B.S., M.B.A., California State University, Long Beach

ALEXANDER, CYNTHIA (2000)

Professor
Educational Technology
 B.A., California State University, Long Beach
 J.D., Western State University

ALVAREZ, LYDIA (2000)

Associate Professor
English
 B.A., Pomona College
 M.A., California Polytechnic State University, Pomona

ANDRADE, OLGA (2012)

Instructor
Child Development
 M.A., California State University, Long Beach

ARCE, CARLOS (1991)

Assistant Professor
Spanish
 B.A., California State University, Chico
 M.A., California State University, Sacramento

ARFWEDSON, CHRISTINE (1997)

Professor
Nursing
 B.S., Nursing University of the State of New York
 M.S.N., University of Phoenix

ARTIAGA, BENJAMIN (2007)

Assistant Professor
Physical Education/Athletics
 M.A., California State University, Long Beach

ASHE, SUZANNE (1986)

Professor
English
 B.A., Rosary College, River Forest, IL
 M.A., University of California, 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
 B.A., University of California, Santa Barbara
 M.S., University of La Verne

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

BARTIKOVSKY, IRVING (2012)

Specialist DSPS/Instructor
Disabled Student Programs and Services
 B.S., University of Southern California
 M.A., California State University, Los Angeles

BATHKE, JULIE (2002)

Associate Professor
Physical Therapist Assistant
 B.S., California State University, Long Beach
 M.S., University of Kentucky

BECK, ANGELA (2004)

Associate Professor
Child Development
 B.A., California State University, Long Beach
 M.A., Pacific Oaks College

BELLAS, MONICA (2000)

Professor
Anthropology
 B.A., California State University, Northridge
 M.A., Ph.D., University of California, Riverside

BELLO-GARDNER, SYLVIA (1987)

Counselor/Professor
 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

BENGSTON, CARL (2009)

Dean of the Library, Special Programs & Services
 A.B., University of California, Berkeley
 M.B.A., Dominican University of California
 M.L.S., University of Oregon

BETANCOURT, DAVID (1999)

Associate Professor/Director of Bands
Music
 B.M., Berklee College of Music
 M.M., N. Arizona University
 D.M.A., University of Southern California

BETTENCOURT, MADELINE (2012)

Instructor
Cosmetology
 B.A., California State University, San Bernardino

BEYENE, AEMIRO (2012)

Instructor
Mathematics
 B.S., M.S., California State University, Northridge

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 State Polytechnic University,
San Luis Obispo
M.A., California State University, Los Angeles

BOUTIN, LISA (2012)

Instructor
Art History
M.A., Ph.D., University of California, Los Angeles

BOWMAN, TAYLOR (1999)

Web Administrator
B.J., University of Texas, Austin
B.F.A., M.F.A., North Texas State University

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., M.A., Azusa Pacific University

BRAUN, SHARON K. (1997)

Professor
Child Development
M.A., Pacific Oaks

BREIT, CRAIG A. (1985)

Assistant Professor
Theatre Arts
B.A., M.A., California State University, Long Beach

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
Ed.D., 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)

Associate Professor
Mathematics
B.A., M.A., California State University,
San Bernardino

CABUTO, FROYLAN (2000)

Instructor
Spanish
B.A., M.A., California State University, Los Angeles

CAGNOLATTI, DAMON M. (2011)

Instructor
English
B.A., University of California, Riverside
M.A., The Pennsylvania State 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

CAMINITI, CAROL (2005)

Instructor
Nursing
A.S., Long Beach City College
B.S., California State University, Fullerton
M.S., California State University, Long Beach

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)

Professor
English
B.A., M.A., California State University, Long Beach

CARREON, LORA (2005)

Associate Professor
Mathematics
B.S., M.S., California State University, Long Beach

CARRILLO, ROSA (2012)

Counselor/Instructor
B.A., California State University, Long Beach
M.A., San Diego State University

CARROLL, DANI (2002)

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)

Counselor /Assistant Professor
B.A., University of Southern 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

CHEATHAM, TERESA (2012)

Instructor
English
B.S., M.A., California State University,
Dominguez Hills

CHESTER, ROBERT (1987)

Professor
Coordinator of Student Judicial Affairs
B.A., M.A., California State University, Northridge

CHOMIAK, RENEE DELONG (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
Ed.D., University of California, Irvine

CHRISTENSEN, VALERIA (2010)

Instructor
Physical Therapist Assistant
B.S., D.P.T., University of Southern California

CLARKE, MARY (1980)

Professor
Mathematics
B.A., M.A., California State University, Long Beach

CLAUSS, DANIEL (2011)

Instructor/Athletic Director
Physical Education/Athletics
B.S., Southeast Missouri State University
M.A., Western Carolina University

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)

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)

Associate Professor
Mathematics
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)

Director of Employment, Diversity & Legal Services
B.A., University of California, Irvine
J.D., University of California, Davis

COOKE, MELODIE (2004)

Associate 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/Project HOPE
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

COSIO, LYDIA (2008)

Assistant Professor
Dental Assisting
A.A., Cerritos College
B.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 (2004)

Assistant Professor
Biological Sciences
B.S., M.S., California State University, Long Beach

DANIELO, JA'NET (2012)

Instructor
English
B.A., New York University
M.F.A., California State University, Long Beach

DAVIDSON, REBEKAH (2012)

Instructor
Dance
B.F.A., University of Texas
M.F.A., California State University, Long Beach

DAVIS, JULIE E. (2011)

Instructor
History
B.A., M.A., California State University, Fullerton

DEKRAKER, DANIEL (2011)

Instructor
Earth Science
B.A., Calvin College
M.A., California State University, Fullerton

DELAWALLA, NOORALI (2012)

Director of Fiscal Services
B.S., Premier College

DEMIAN, KAMAL A. (1997)

Professor
Mathematics/Engineering
B.S., Ain Shams University, Cairo, Egypt
M.S., California State University, Long Beach

DEMICHELE, ANNA (2004)

Professor
Music
M.A., Ph.D., Claremont Graduate University

DUFF, KIMBERLEY (1999)

Professor
Psychology
B.A., University of California, Santa Barbara
M.A., Ph.D., University of Illinois, Chicago

EDWARDS, CARRIE E. (1997)

Professor
Health, Fitness/Wellness
B.A., New York University
M.A., Ph.D., University of Southern California

EL FATTAL, DAVID (2010)

Vice President of Business Services/Assistant Superintendent
A.A., Azusa Pacific University
B.S., University of Redlands
M.B.A., Pepperdine University

ERNEST, ROGER (2000)

Instructor
English
B.A., California State University, Long Beach
M.A., California State University, Dominguez Hills

FABISH, DAVID M. (1994)

Instructional Dean, Liberal Arts
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.P.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

FERNANDEZ, CHRISTINA (2001)

Professor
Photography
B.A., University of California, Los Angeles
M.F.A., California Institute of Arts

FERNANDEZ, WALTER I. (1995)

Professor
History
B.A., M.A., M.A., California State University,
Northridge

FLORES-CHURCH, ADRIANA (2006)

Director of Human Resources/Risk Management
B.S., Universidad Tecnologica de Mexico
M.A., University of Phoenix
Ed.D., California State University, Long Beach

FLORESCU, MIHAELA (2001)

Professor
French and Romance Linguistics
M.A., Ph.D., University of California, Los Angeles

FORTNER, ANTHONY (1999)

Associate Professor
Woodworking Manufacturing Technologies
B.A., California State University, Long Beach

FRONKE, MARK J. (1992)

Professor
Accounting
B.S., University of Southern California

FUSCHETTO, SUSAN (2000)

Professor
Computer and Information Sciences
B.B.A., National University
M.B.A., Pepperdine University

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)

Specialist DSPS/Assistant Professor (LD)
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)

Associate Professor
Librarian
B.A., M.L.S., Rutgers University

GLICK, LEONARD (2006)

Assistant Professor
Automotive Mechanical Repair
B.A., M.A., California State University, Long Beach

GOMEZ, BELLEGRAN (2011)

Director of Community Advancement
B.S., M.P.L., University of Southern California

GONZALES, JOANA (2002)

Assistant Professor
English
B.A., M.A., University of California, Irvine

GONZALEZ, KERI (2010)

Instructor
Nursing
A.A., Cerritos College
B.S.N., M.S.N., University of Phoenix

GRADIN, SUSAN (1999)

Professor
Child Development
B.A., University of California, Santa Barbara
M.A., Pepperdine University

GREENBERG, BRUCE (2012)

Instructor
Paralegal
J.D., Southwestern Law School

GREGORIO, ALINE (2013)

Instructor
Geography
M.A., California State University, Fullerton

GRIFFIN, APRIL (2012)

Instructor
Director of Forensics/Speech
B.A., Point Loma Nazarene
M.S., Pepperdine University

GREENE, CHAD J. (2011)

Instructor
English
B.A., University of Minnesota
M.P.W., University of Southern California

GROSFELD, STEPHEN (2004)

Instructor/Coach
Athletics
A.A., Cerritos College
B.S., Utah State
M.S., Azusa Pacific University

GULARTE, MARY ANNE (2012)

Vice President of Human Resources/
Assistant Superintendent
B.A., University of California, Santa Barbara
M.S., Ed.D., Oklahoma State University

HAAS, JOHN H. (1998)

Instructor
History
B.A., California State University, Los Angeles
Ph.D., Claremont Graduate School

HART, DEANNA (1989)

Payroll Manager
B.A., National University, La Jolla

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

HENDERSON, SCOTTIE (2010)

Instructor
Biology
B.A., University of California, Santa Cruz
Ph.D., University of Washington

HENRIQUES, JAMES (1988)

Professor
Physics
B.S., M.S., Georgia State University
M.M., California State University, Fullerton

HERRERA, VERONICA (2011)

Counselor/Instructor
B.A., M.S., California State University, Long Beach

HIGGINS, KOLLEEN (2011)

Instructor
English
B.A., Boston University
M.A., California State University, Long Beach

HILL, SHELIA (2012)

Counselor/Instructor
B.A., M.Ed., University of South Carolina
Ed.D., California State University, Long Beach

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)

Associate Professor
Theatre Arts
B.A., B.F.A., University of Hawaii, Manoa
M.F.A., University of California, Los Angeles

HOGGARD, KEVIN (1985)

Professor
Theatre Arts
B.A., M.F.A., University of California, Riverside

HOLMES, JUDI (2001)

Associate Professor
Disabled Student Programs and Services
B.A., M.S., California State University, Long Beach

HOLZGANG, AMY (2001)

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

HOYLE, SHEELA (2000)

Counselor/Professor
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

HUGEN, MARK A. (1998)

Assistant Professor
Mathematics
A.B. Secondary, Dordt College
M.A., California State University, Fullerton

HUNT, MARY (2004)

Specialist DSPS/Assistant Professor (LD)
Disabled Student Programs and Services
B.F.A., Otis Art Institute
M.A., Philips Graduate Institute

HURTADO, HENRIETTA (2001)

EOPS Counselor/Instructor
B.A., California State University, San Diego
M.A., University of Redlands

JARRETT, GEORGE (2004)

Assistant Professor
History
B.A., University of California, Santa Cruz
M.A., University of California, Davis

JENSEN, DEBORAH C. (1995)

Professor/Coach
Health, Physical Education/Athletics
B.S., California State University, Fullerton
M.S., Louisiana Tech University

JOHNSON, STEPHEN B. (2005)

Vice President of Student Services/
Assistant Superintendent
A.B., University of California, Berkeley
M.A., San Diego State University
Ed.D., University of California, Los Angeles

JONES, SHAWN (2002)

Accounting Manager
B.S., California State University, Hayward
M.B.A., Texas A&M University

JORDAN, WESLEY (1991)

Associate Professor
Mathematics
B.A., M.A., California State University, Long Beach

JUNTILLA, TIMOTHY J. (1997)

Assistant Professor
English
B.A., California Lutheran University
M.S., Illinois State University

KAYSER, LANCE (2006)

Assistant Professor
English
B.A., Biola University
M.A., California State University, Fullerton

KEENAN, DIANE (1989)

Professor
Economics
B.A., California State University, Long Beach
M.A., University of California, Los Angeles
M.A., Claremont Graduate School

KELLY, EDWARD (2011)

Instructor
Sign Language
California Community Colleges Credential -
Special Education

KRAYER, ADELLE (2001)

Professor
Dental Hygiene
A.A., Cerritos College
B.V.E., M.A., California State University, Long Beach

KRICHMAR, LEE (1999)

Director of Information Technology
B.S., DeVry Institute of Technology
M.I.S., Claremont Graduate School

LACY, LINDA (2009)

President/Superintendent
B.S., Ed.D., Oklahoma University
M.Ed., Central State University

LACY, TOR (2005)

Assistant Professor
Earth Science
B.S., University of California, Santa Barbara
M.S., California State University, Long Beach

LAVARIERE, CYNTHIA (2000)

Professor
Asst. Director of Forensics/Speech
Communication
B.A., Point Loma Nazarene College
M.A., California State University, Fullerton
Ed.D., University of Phoenix

LAVIGNE, STEVEN (2012)

Counselor/Instructor
Disabled Student Programs and Services
M.A., M.S., B.S., Eastern Washington University

LAZOR, C.G. (1984)

Professor
Electronics
A.A., Cerritos College
B.S., University of the State of New York

LEON, JR., RUBEN (1990)

Assistant Professor

Mathematics

B.A., M.A., California State University, Long Beach

LE PERE, SUSAN C. (1995)

Associate Professor

Biology

B.A., M.A., California State University, Fullerton

LEW, ERNEST (2011)

Instructor

Culinary Arts

B.A., University of California, Irvine

M.B.A., California State University, Fullerton

LEWANDOWSKI, PAMELA (2000)

Instructor

Mathematics

B.S., M.S., California State University, Long Beach

LEWANDOWSKI, THOMAS (2002)

Instructor

Mathematics

B.S., University of Wisconsin

M.S., California State University, Long Beach

LEWELLEN, RITA (2002)

Assistant Professor

Psychology

B.A., M.A., California State University, San Marcos

LIVINGSTON, ROBERT (2001)

Professor

Business Administration

B.S., M.A., University of San Francisco

Ph.D., Capella University

LO VETERE, CRYSTAL (2004)

Associate Professor

Earth Science

A.A., Fullerton College

B.A., M.A., California State University, Fullerton

LOERA, DIANE M. (2007)

Instructor

Dental Hygiene

B.S., M.S., California State University, Long Beach

LOGAN, MARK B. (2012)

Director of Purchasing

A.A., Saddleback College

B.A., California State University, Fullerton

LOPEZ, CHRISTINE S. (1992)

Associate Professor

Piano/Choral

B.M., M.M., D.M.A., University of Arizona

LOPEZ, JESUSITA (2007)

Instructor

Culinary Arts

A.A., Cerritos College

B.S., California State University, Long Beach

LOPEZ, MANUEL (2001)

Associate Professor

Mathematics

B.S., M.A., University of California, Los Angeles

M.A., California State University, Fullerton

LOPEZ, MONICA (2004)

Associate Professor/Librarian

Library

B.A., California State University, Fullerton

M.L.I.S., San Jose State University

LOPEZ, THERESA (2000)

Director of Career and Assessment Services

B.S., California State Polytechnic University,

Pomona

M.S., California State University, Los Angeles

LOU, RENA ZHIHONG (2007)

Instructor

Chemistry

M.S., The State University of New Jersey, Rutgers

LOU, ZHENG (2000)

Professor

Computer and Information Sciences

B.E., University of Shanghai for Sciences &

Technology

M.S., University of Massachusetts, Amherst

LOVEJOY, NICOLE M. (2011)

Instructor

English

B.A., M.A., Claremont Graduate University

LUNDEEN, BRITTANY (2004)

Counselor/Assistant Professor

B.A., California State University, Fullerton

M.S., California State University, Long Beach

MACDEVITT, JAMES (2005)

Instructor

Art

B.A., M.A., University of California, Riverside

MACIAS, SERGIO (2005)

Instructor

Athletics

B.A., Whittier College

M.A., California State University, Los Angeles

MAKAREM, NASIBA (2011)

Instructor

Pharmacy Technology

Dr. of Pharmacy, University of the Pacific

MALIG, JANNET (2009)

Director of Advanced Transportation Technologies

Project

B.A., California State University, Fullerton

M.B.A., Chapman University

MARIANI, ILVA (2000)

Associate Professor

Mathematics

B.S., University of Zagreb, Croatia

M.S., California State University, Long Beach

MARKS, SANDRA A. (1995)

Instructional Dean, Health Occupations

Professor, Medical Assistant

B.S.N., Alverno College

M.S., California State University, Long Beach

MASON, RACHEL G. (2008)

Instructional Dean, Business, Humanities &

Social Sciences

A.A., Los Angeles Valley College

B.S., California State University, Northridge

M.B.A., Pepperdine University

MATA, PILAR (2000)

Associate Professor

Mathematics

B.A., M.A., California State University, Fullerton

MATSUURA, KENNETH (1990)

Counselor/Professor

B.A., University of California, Santa Barbara

M.A., Ph.D., University of California, Los Angeles

MAY, RUSSELL (2010)

Instructor

Physical Education

A.A., Cerritos College

B.A., California State Polytechnic University,

Pomona

M.Ed., Azusa Pacific University

MAYFIELD, CONNIE (2005)

Professor, Music

B.M., Southwest Baptist University, Missouri

M.M., University of Missouri, Kansas City

Ph.D., University of Kansas

MAZ, ANDREW (2012)

Instructor

Commercial Music

M.M., D.M.A., University of Southern California

M.A., University of California, Los Angeles

MAZZOTTA, FRANK (1976)

Professor/Coach
Physical Education/Athletics
B.S., University of Utah
M.A., Pepperdine University

MCCANCE, IAN (2012)

Instructor
Mathematics
B.S., M.S., California State University, Long Beach

MCDONALD, SUSAN L. (2011)

Instructor
Speech Language Pathology
B.A., Western Washington University
M.S., University of Vermont

MCLARTY-SCHROEDER, JANET (1999)

Associate Professor
Astronomy
B.S., University of Iowa
M.S., University of Arizona

MCPHERSON, MICHAEL (1988)

Associate Professor
Health and Physical Education
B.A., California State University, Northridge
M.A., Azusa Pacific University

MEDINA, MICHAEL PAUL (2011)

Instructor
Welding
A.A., Cerritos College

MEDINA-VALIN, NIURKA (1989)

Professor
Spanish
B.A., M.A., California State University, Los Angeles
Ph.D., University of Southern California

MELLAS, DEAN (2000)

Professor
Computer and Information Science
B.A., B.S., California State University, Fullerton

MENDEZ, MARIA (2000)

People-Soft Database Administrator
B.A., California State University, Long Beach

MICIC, MIODRAG (2012)

Instructor
Engineering Technology
Sc.D., M.Sc., B.Sc., B.Ed., University of Belgrade
B.Eng., Polytechnic Academic
M.T.M., Washington State University
Ph.D., University of Miami

MILES, MICHAEL (2012)

Counselor/Instructor
B.A., M.S., University of La Verne
M.S., California State University, Fullerton

MILLER, ALICE (1985)

Instructor
Reading
B.S., Southern Illinois University
M.A., Arizona State University

MILLER, KIRK (1988)

Professor
Art and Design
A.B., University of California, Berkeley
B.F.A., M.F.A., Art Center College of Design

MIRANDA, RICK (2012)

Dean of Academic Affairs
B.S., University of California, Riverside
M.S., California State University, San Bernardino

MIXSON, JR., FRANK L. (1998)

Associate Professor
English
B.A., Drake University
M.A., California State University, Long Beach
Ph.D., University of Georgia

MOLONEY, PETER (2002)

Associate Professor
Accounting/Finance
B.S., M.B.A., California State Polytechnic
University, Pomona

MONTGOMERY, NANCY (2007)

*Associate Dean of Student Health, Wellness &
Veterans Services*
R. N., B.S.N., M.S.N., California State University,
Dominguez Hills

MOORE, DAVID (2012)

Director of Physical Plant & Construction Services
B.S., Arizona State University

MOORE, DEBRA (2001)

Professor
Librarian
B.A., Oberlin College
M.Div., Andover Newton Theological School
M.L.S., University of California, Los Angeles

MORALES, GLORIA (1999)

Counselor/Professor
B.A., University of California, Los Angeles
M.A., California State University, Dominguez Hills

MORGAN, VYKKI (1992)

Professor
Court Reporting
A.A., Chaffey College
B.A., National University
M.A., Pepperdine University

MORIARTY, CYNTHIA (1992)

Professor
Business Administration
A.A., Fullerton Junior College
B.S., California State University, Fullerton
M.B.A., University of La Verne

MOTRUK, NINA (2001)

Professor
Cosmetology
A.A., Cerritos College
B.S., Southern Illinois University

MULLINS, TERRANCE M. (2011)

Instructor
Political Science
B.A., M.A., California State University, Northridge

MURGUIA, STEPHANIE (2001)

Dean of Admissions, Records and Services
A.A., Palomar College
B.A., California State University, San Marcos
M.A., University of San Diego

MURRAY, KODEE (2001)

Assistant Professor/Coach
Physical Education/Athletics
B.S., California State Polytechnic University,
Pomona
M.A., California State University, Dominguez Hills
M.S., National University

NAJARIAN, HAGOP (1999)

Associate Professor
Art and Design
B.F.A., California State University, Long Beach
M.F.A., Temple University

NAMALA, SOLOMON (1999)

Associate Professor
Economics
B.A., Lewis & Clark College
Ph.D., University of Utah

NATIVIDAD, RACHEL (2002)

Professor
Nursing
A.S., Mt. San Antonio College
B.S., California State University, Fullerton
M.S., University of Phoenix

NAVARRO, MICHELLE (2011)

Instructor
Biological Science
B.S., University of California, Los Angeles
Ph.D., City of Hope

NEGRETE, BERNARD J. (1981)

Professor
Computer and Information Sciences
B.A., California State University, Long Beach
M.S., National University

NGO, MICHELLE (2011)

Counselor/Instructor
M.A., California State University, Dominguez Hills

NGUYEN, KAY (2010)

Director of Research and Planning
B.A., M.A., University of California, Riverside

NGUYEN, PHUONG D. (1991)

Professor
Computer and Information Sciences
B.S., M.S., University of California, Davis

NGUYEN, THU THI (2011)

Counselor/Instructor
B.A., University of California, Irvine
M.S., California State University, Long Beach

NIKDEL, MOJDEH (1997)

Professor
Mathematics
B.S., M.A., Ph.D., Pennsylvania State University

NINOMIYA, KATHLYN (1986)

Professor
Dental Hygiene
A.A., Cerritos College
B.S., California State University, Long Beach

NOVINSKI, PATRICIA (2001)

Assistant Professor
Cosmetology
B.V.E., California State University, Long Beach

O'DONNELL, PATRICK (2004)

Manager Information Technology
B.S., California State University, Long Beach

O'NEIL, SCOTT (2000)

Instructor
Mathematics
B.S., University of California, Santa Barbara
M.S., California State University, Long Beach

OBASOHAN, VICTOR (1992)

Instructor
Political Science
B.S., M.A., Jackson State University

OBAZUAYE, SUNDAY (2005)

Assistant Professor
Political Science
B.A., Alaska Pacific University
M.P.A., University of Alaska, Anchorage
M.A., Ph.D., Claremont Graduate University

OROZCO, REBECCA JENNIFER (2007)

Instructor
Nursing
B.S., Pacific Union College
M.S., California State University, Long Beach

PACHECO, RUPERT (2004)

Instructor
Welding
A.S., Long Beach City College
B.S., Southern Illinois University

PAGE, ELIZABETH (1998)

Associate Professor/Counselor
Disabled Student Programs and Services
B.A., California State University, Dominguez Hills
M.A., California State Polytechnic University,
San Luis Obispo

PAIGE, MATTHEW (1999)

Associate Professor
Reading
B.A., California Lutheran College
M.A., California State University, Long Beach

PALMA, JENNIFER (2012)

Instructor
Child Development
B.S., Ed.D., University of Southern California

PALUMBO, LINDA (1988)

Professor
English
B.A., Rutgers University
M.A., Ph.D., University of Southern California

PARSONS, SUSAN (1985)

Associate Professor
Mathematics
B.A., M.A., California State University, Long Beach

PAYNE, RAMONA (1999)

Budget Manager
B.S., California State University, Los Angeles
M.B.A., California State University, Long Beach

PEREIRA, PAULA (2012)

Librarian/Instructor
M.L.S., San Jose State University

PIERINI, MICHAEL S. (1995)

Associate Professor
Culinary Arts
A.A., West Los Angeles College
B.V.E., California State University, Long Beach

PIRTLE, DIANNE D. (1997)

Assistant Professor
Sociology
B.A., M.A., California State University,
Dominguez Hills

PORTIGAL, STEVEN J. (1991)

Professor
Art and Design
B.A., San Fernando Valley State College
M.F.A., University of California, Los Angeles

POTTER, INGEBORG (1979)

Professor
German
B.A., M.A., California State University, Fullerton

PRIBBLE, MARY (1984)

Professor
Paralegal
A.A., Citrus College
B.A., Whittier College
M.B.A., California State University, San Bernardino
J.D., Western State University

PRICE, TERRY L. (1975)

Professor
Plastics Technology
A.A., East Los Angeles College
B.A., California State University, Long Beach

PRINDLE, JEANINE V. (1977)

Professor
Health, Physical Education/Athletics
B.A., M.A., California State University, Long Beach
M.Ed., Azusa Pacific University

PRITCHARD, JR., GARY (1999)

Interim Instructional Dean,
Fine Arts & Communications
Associate Professor, Music
B.M., Chapman University
M.A., Claremont Graduate School
Ph.D., University of California, Irvine

QUAAS-BERRYMAN, FRANCIE (1999)

Assistant Professor
English
A.A., Santa Ana College
B.A., M.A., California State University, Fullerton
Ed.D., University of California, Los Angeles

RAMOS, GERARDO R. (2011)

Instructor
Business Administration
B.A., M.B.A., California State University, Fullerton

REAL, YANNICK (2000)

Instructional Dean, Technology
Professor, Machine Tool Technology
B.S., University of Metz
M.S., California State University, Long Beach
Engr., University of Southern California
Ed.D., Pepperdine University

REECE, BRYAN S. (1991)

*Dean of Academic Success and
Institutional Effectiveness
Professor, Political Science
B.A., M.A., Ph.D., University of Southern California*

RICHARDSON, CHRISTOPHER (2012)

*Instructor/Coach
Physical Education/Athletics
B.A., California State University, Long Beach
M.A., Concordia University*

RICHARDSON, STEVEN (2000)

*Executive Director of Foundation &
Community Advancement
B.A., Biola University*

RICHEY, THOMAS (2003)

*Facilities Manager
A.A., Cypress College*

RIEDEL, PATRICIA (2003)

*Assistant Professor
Nursing
B.S., California State University, Los Angeles
M.S., California State University, Long Beach*

RIGBY, JEFFREY (1991)

*Professor
Anthropology
B.A., M.A., University of California, Los Angeles*

ROBBINS II, HAROLD J. (2012)

*Instructor
Nursing
M.S.N., University of Phoenix*

ROBERTSON, CHARLES C. (1994)

*Professor
Automotive Collision Repair
A.A., Cerritos College
A.S., Long Beach City College
B.V.E., California State University, Long Beach*

ROBLES, MARTHA (2004)

*Instructor
Adult Ed/Diversity Programs
B.A., California State University, Chico
M.S., National University*

RODRIGUEZ, NORMA C. (1983)

*Director of CalWORKs Services
A.A., Cerritos College
B.A., M.A., California State University,
Dominguez Hills*

ROJAS, SANTOS (2012)

*Instructor
Microbiology
B.S., Arizona State University
Ph.D., University of California, Irvine*

ROMER, CHRISTINE (1981)

*Associate Professor
Chemistry
B.A., M.A., California State University, Fullerton*

RONQUILLO-ADACHI, JACLYN (2011)

*Instructor
Psychology
M.A., Ph.D., University of Southern California*

ROSENBLATT, STEPHANIE (2012)

*Librarian/Instructor
B.A., B.S., University of Texas
M.L.S., Queens College
M.S., Pace University*

ROSENFELD, KIMBERLY (1999)

*Associate Professor
Speech Communication
B.A., M.A., California State University, Fullerton*

ROTHER, EDWARD (1989)

*Professor
Architecture
B.S., M.Arch., University of Illinois
M.B.A., California State University, Fullerton
Ed.D., University of Southern California*

RYOZAKI, EVELYN (1990)

*Counselor/Professor
B.A., University of California, Los Angeles
M.A., California State University, Dominguez Hills*

SALAZAR, MICHAEL (1998)

*People-Soft Database Administrator
A.A., Cerritos College*

SANDERSON, JANET (1986)

*Professor
Physical Education/Dance
B.A., M.A., California State University, Los Angeles*

SARELL, GARY (1985)

*Professor
Mathematics
B.A., California State University, Fullerton
M.A., California State University, Long Beach*

SATTERFIELD, PHILLIP (2000)

*Professor
Administration of Justice
A.A., Long Beach City College
B.S., M.P.A., California State University, Long Beach*

SCHILLING, JOANNA (2012)

*Vice President of Academic Affairs/
Assistant Superintendent
B.A., Smith College
M.F.A., Carnegie Mellon University
Ph.D., Oregon State University*

SCHMIDT, DEBRA L. (1990)

*Professor
Accounting
B.A., California State University, Fullerton*

SERWIN, LYNN A. (1997)

*Associate Professor
English
B.A., California State University, Fullerton
M.A., California State Polytechnic University,
Pomona*

SESTINI, SALLY (1986)

*Professor
Mathematics
B.A., University of California, Los Angeles
M.S., California State University, Northridge*

SHAH-WILLIAMS, NISHI (2004)

*Associate Professor
English
B.A., M.A., California State University, Fullerton*

SHARP, MAGEYA (1983)

*Professor
Business Communications Office Technology
B.A., California State University, Long Beach
M.S., Pepperdine University*

SHIMAZU, CHERYL (1989)

*Professor
Chemistry
B.A., University of California, Irvine
M.S., California State University, Long Beach*

SMITH, DANIEL (2002)

*Instructional Dean, Physical Education/Athletics,
Professor
B.S., M.S., Brigham Young University
Ph.D., University of Illinois*

SMITH, FELICIA (2004)

*Assistant Professor
Cosmetology
A.A., El Camino College
B.S., University of Southern California*

SMITH, PATRICIA ROBBINS (2002)

*Director of Community Education
B.A., University of California, Los Angeles
M.S., California State University, Fullerton
Ed.D., University of California, Irvine*

SODEN, BARBARA A. READ (1987)

*Professor
Business Communications Office Technology
B.S., College Misericordia, Pennsylvania
M.S., Marywood College*

SOTO, ARMANDO (1998)

Counselor/Associate Professor
B.A., University of California, Berkeley
M.A., San Diego State University

SPARKS JR., WILLIAM F. (1995)

Associate Professor
Speech
B.A., M.A., University of Southern California

STAMMERJOHN, CARL (2004)

Associate Professor
Woodworking
B.S., California Polytechnic State University,
San Luis Obispo

STILES, LYNN M. (1990)

Professor
English
B.A., M.A., California State University, Long Beach

STOLZE, TED (2004)

Assistant Professor
Philosophy
B.S., Davidson College
M.A., Ph.D., Claremont Graduate University

STUART, PEGGY J. (1995)

Professor
Nursing
B.S.N., California State University, Long Beach
M.S.N., California State University, Los Angeles

SUGIHARA-CHEETHAM, JOANN (2002)

Instructor
English as a Second Language
B.S., University of California, Riverside
M.A., California State University, San Francisco

SUGIYAMA, CHRISTINE (1987)

Counselor/Professor
B.A., University of California, Los Angeles
M.A., California State University, Dominguez Hills

SWANSON, JOHN (1992)

Professor
English
A.B., University of California, Berkeley
M.F.A., University of California, Irvine

SZABO, THAD (2009)

Instructor
Physics/Astronomy
B.A., University of Pennsylvania
M.A., Florida State University
Ph.D., University of Southern California

TAFOYA, YVETTE (2004)

EOPS Assistant Director
A.A., Cerritos College
B.A., California State University, Fullerton
M.S., California State University, Long Beach

TAIT, MARK E. (1995)

Professor
Welding
A.A., Cerritos College
B.V.E., California State University, Long Beach

TAYLOR, KEVIN (1992)

Professor
Automotive Technology
B.A., M.A., California State University, Long Beach

TORRES, MARIA DELALUZ (2009)

Assistant Professor
Mathematics
B.S., M.A., California State University, San
Bernardino

TORRES-BOWER, ANA (1992)

Professor
Philosophy
B.A., University of Puerto Rico
M.A., California State University, Long Beach

TRAGER, JULIE (2001)

Associate Professor
Art History
B.F.A., Rhode Island School of Design
M.F.A., Bard College

TROUP, JACQUELYN A. (1991)

Professor
Sociology
B.A., M.A., Pepperdine University

TYDELL, CAROL C. (2011)

Instructor
Anatomy & Physiology
B.S., D.V.M., University of California, Davis

UKITA, TRACI (2001)

Counselor/Assistant Professor
B.A., University of California, Los Angeles
M.S., California State University, Long Beach

VALCARCEL, ANNA (2012)

Instructor
Biology
M.S., California State University, Long Beach

VALENZUELA, RAUL (1990)

EOPS Counselor/Associate Professor
B.A., University of California, Irvine
M.S., California State University, Fullerton

VAN DE MORTEL, JOSEPH (1988)

Professor
Philosophy
B.A., California State University, Fullerton
M.A., University of San Francisco

VASQUEZ, GRACIELA (1994)

*Director of Adult Education/
Diversity Programs*
B.A., M.A., University of California, Los Angeles

VEGA, FRANK (2005)

Instructor
Automotive Mechanical Repair
A.A., Cerritos College
B.A., University of La Verne

VELOZ-RENDON, LIZETTE (2011)

Instructor
Nursing
B.S., California State University, Fullerton
M.S., California State University, Dominguez Hills

VOORHIES, ANN (2002)

Professor
Nursing
A.S., Purdue University
B.S., California State University, Dominguez Hills
M.S., California State University, Long Beach

WALDMAN, LINDA S. (1997)

Assistant Professor
Chemistry
A.S., Cypress Community College
B.S., California State University, Long Beach
M.S., Ph.D., University of California, Irvine

WALLACE, MARK L. (2006)

Director of Public and Governmental Relations
B.A., California State University, Fresno

WARD, DEBRA SUE (2007)

Director of Child Development Center
B.A., University of Redlands
M.S., University of La Verne

WATANABE-LONSBURY, SUSAN (1991)

Professor
Theatre Arts
B.A., California State University, Dominguez Hills
M.F.A., University of Southern California

WEDELL, DONNA (2004)

Professor
Dental Assisting
A.S., Rio Hondo College
B.V.E., California State University, Long Beach
M.A. California State University, San Bernardino

WELL, GEORGIA (1983)

Professor
Theatre Arts
A.A., Bakersfield College
B.A., M.A., California State University, Long Beach

WELLIVER, KAREN M. (1988)

Professor/Coach

Health, Physical Education/Athletics

B.A., M.S., California State University, Long Beach

WESTBY, KIM (1985)

Dean of Student Support Services

A.A., Cerritos College

B.A., California State University, Dominguez Hills

M.S., University of La Verne

WHITSON, BEVERLY (1984)

Professor

English

A.A., Cerritos College

B.A., M.A., California State University, Fullerton

WILSON, CHRISTOPHER (2000)

Associate Professor

Art and Design

B.A., University of California, Irvine

M.F.A., Loyola Marymount University

WILSON, JACK (1999)

Professor

Computer and Information Sciences

B.A., M.S., California State University, Fullerton

WORREL, DARA (2004)

Associate Professor

Mathematics

B.S., M.S., California State University, Long Beach

ZEWAIL, MERVAT (1984)

Professor

Chemistry

B.S., University of Alexandria, Egypt

Ph.D., University of Pennsylvania

Faculty/Educational Administrators/Managers Emeriti

ACKLAND, DEAN

(1987-2010)

Coordinator of Student Activities

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

ARAGON, RICHARD

(1994-2012)

Automotive Mechanical Repair

ARCHER, DONNY

(1961-1981)

Mathematics

ASPEREN, ROBERT

(1979-2011)

Automotive Collision Repair

AUSTIN, ANTHONY

(1980-2009)

Electronics

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

BARKER, MATILDA

(1989-2000)

Sociology

BARCLAY, LOIS

(1964-1979)

Cosmetology

BAXTER, DORRIS

(1957-1984)

Chemistry

BAYER, CONNIE

(1966-2002)

Health and Physical Education

BEALE, DARRYL

(1973-2009)

Psychology

BEAM, ROGER D.

(1975-1993)

Automotive Technology

BEHREND, SHARON

(1976-1996)

Nursing Education

BELLUGUE, ROLAND

(1991-2000)

French

BELROY, ALEXANDER

(1964-2003)

English

BERKLITE, STEVEN L.

(1985-2011)

Instructional Dean of Technology

BERRY, PATRICIA A.

(1978-2011)

English as a Second Language

BETTINO, M. L.

(1991-2011)

Dean of Academic Affairs

BETZ, CHARLES R.

(1962-1998)

Economics

BEULIGMANN, MARIE

(1981-1999)

Nursing

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

BLACKMUN, EUGENE

(1983-2010)

Business

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

CAIN, GARY L.

(1998-2011)

Coordinator of Student Activities

CALEY, DONALD

(1965-1987)

Marketing, Management, Business

CAMPBELL, CLINTON P.

(1965-1983)

Sociology

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

CHAVEZ, ERLINDA

(1989-2011)

Cosmetology

CHOWEN, JUDITH

(1981-2006)

Accounting

COLE, JOSEPH C.

(1960-1973)

Psychology

CONOVER, SANDY

(1991-2002)

Nursing

COOK, EDWARD P.

(1965-1981)

Welding

COPPENGER, MICHAEL

(1980-2004)

Photography

CRACCHIOLO, EDITH E.

(1964-2000)

Psychology

CRANE, JULES

(1962-1989)

Biology

CRAWFORD, SUZANNE

(2004-2011)

English

CROSS, KATHLEEN

(1990-2008)

Counselor

CROUSE, LOIS

(1963-1980)

Nursing

CUMMINGS, SELDEN

(1965-1993)

English

DARNALL, FLORENCE

(1959-1977)

Cosmetology

DAVIS, RICHARD H.

(1975-2003)

Computer and Information Sciences

DEFRANCE, FRANCINE

(1976-2009)

English

Instructional Dean, Humanities/Social 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

DUNROE, WILLIAM D.

(1979-2010)

Psychology

DURAN, AGNES H.

(1987-2004)

Reading

EDSON-PERONE, LORRAINE

(1984-2010)

Mathematics

EGAN, ISABELLE

(1989-2007)

Counselor

ELIAS, ABUNDIO

(1969-1992)

Spanish

ELIZONDO, SANDRA

(2000-2011)

Business Computerized Office Technologies

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

FARMER JR, WILLIAM C.

(2005-2011)

Vice President of Academic Affairs/Assistant
Superintendent

FEENEY, JOHN

(1958-1991)

Music

FELDSTEIN, THERESE

(1988-2011)

Mathematics

FENNER, WILBURT

(1972-1990)

Art

FINKELSTEIN, HY L.

(1975-2011)

Management

FINLEY, ROBIN

(1972-1994)

Biology

FISCHER, LAWRENCE

(1961-1992)

English

FLEMING, RONALD

(1963-1966)

Business

FOBI, CHARLENE

(1988-2011)

Nursing

FOERSTER, ROBERT

(1969-1989)

Physical Education

FOLLETT, KAY S.

(1981-2011)

Disabled Student Programs & Services

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

GAFFANEY, TODD W.

(1975-2012)

Psychology

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

HALLINGER, DONALD

(2001-2011)

Earth Science

HALLUM, ANDREW

(1973-1992)

Business/Disabled Student Programs

HAMPTON, PRESTON

(1989-2008)

Counselor

HANKS, WENDELL G.

(1966-2011)

Speech Communication

HANSON, KENNETH J.

(1985-2007)

Electronics

HARBUT, CHESTER

(1989-2010)

Biology

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, FRED

(1986-2009)

Welding

HENRY, PAUL L.

(1957-1982)

Machine Tool

HENTELL, DUCIA

(1968-1982)

Nursing

HENGSTELER, ELIZABETH

(1956-1977)

Philosophy

HERR, FLORENCE S.

(1973-1986)

Business

HICKEY, X. RAYMOND

(1959-1979)

Electronics

HINRICHSSEN, KEITH

(1965-2002)

History

HOAD, GRETCHEN A.

(1987-2002)

Business Paralegal

HOFFLUND, CLYDE

(1957-1982)

Drafting

HOHLY, MARGARET

(1984-2011)

Computer and Information Sciences

HOLLAND, ROGER

(1976-1992)

Business Administration

HOLMAN, JEAN LEE

(1962-1974)

Cosmetology

HOLMES, CAROLYN R.

(1996-2007)

Nursing

HOLSTEGE, MARTIN

(1962-1989)

Mathematics

HORVATH, ELLEN

(1989-2009)

Speech Pathology

HOUSEMAN, PHIL

(1982-2003)

Dean of Student Activities

HUBBELL, SILVIA R.

(1966-1999)

Spanish

HUBER, ROBERT C.

(1988-2009)

Theatre Arts

HUBRECHT, GLENN

(1975-1991)

Electronics

HUFFMAN, JOAN

(1963-1991)

Biology

HUGHLETT, ROBERT

(1973-2005)

Director, Disabled Student Programs & Services

HUMISTON, GENEVIEVE

(1957-1960)

Dean of Admissions

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

JAIME, JENNIE

(2000-2011)

Spanish

JANKOWSKI, SHIRLEY

(1975-1990)

College Nurse

JANOSOVA, ANITA M.

(1992-2011)

Art and Design

JENKINS, SARAH

(1959-1989)

Librarian

JENNINGS, STANLEY

(1957-1985)

History

JEPPESSEN, JACK

(1964-1982)

Economics

JOHNSON, JR., ADOLPH

(1982-2011)

Counselor

JOHNSON, BRUCE A.

(1977-2011)

Welding

JOHNSON, CARL

(1958-1976)

Librarian

JOHNSON, JEANNE EVA
(1973-2011)
Cosmetology

JOHNSON, WAYNE
(1989-2010)
Biology

JOHNSON, WILLIAM
(1971-1991)
Physical Education

JONES, BETTY LOU
(1965-1989)
Librarian

JONES, MARGIA
(1974-1979)
Business Education

JONES, MICHAEL
(2004-2012)
Woodworking

JORDAN, ROBERT
(1960-1989)
Sociology

JULIANO, RICHARD
(1965-1991)
Instructional Dean, HPE/Athletics

KAMANSKI, PAUL DAVID
(1959-1989)
Physical Education

KARVELIS, DONALD
(1977-2003)
History

KASTAN, CYNTHIA
(1979-2009)
Art and Design

KELLY, NANCY J.
(1975-2002)
Health, Physical Education

KENNY, JAMES
(1970-2002)
Computer and Information Systems

KERR, JOSEPH P.
(1963-1966)
Data Processing

KETCHAM, JULE
(1999-2010)
Librarian

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

KORF, LEE
(1958-1982)
Theatre Arts

KORSMEIER, HENRY F.
(1956-1969)
Assistant Superintendent, Business

KREGER, ROBERT
(1991-2011)
Earth Science

KREMER, NICK
(2000-2011)
Executive Dean of Community, Industry &
Technology Education

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

LAILAW, 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

LUNDGREN, AUSTIN
(1965-1989)
Accounting

MACIAS, DORA
(2001-2011)
International Student Program

MADDEN, JOHN
(1998-2006)
Philosophy

MAGNUSON, WALTER C.
(1973-1993)
Vice President of Business Services

MAKI, ROY E.
(1963-1983)
Business

MALKIN, HAROLD
(2003-2011)
Pharmacy Technology

MANIRE, MARGARET V.

(1959-1975)
School Nurse

MANTZ, CONCETTA

(1973-1993)
Sociology

MARINE, REBECCA A.

(1994-2011)
Child Development

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

MCFADDEN, WILLIAM

(1982-2011)
Mathematics/Computer Science

MCGINNIS, JOHN

(1988-2008)
Dean of the Library & Learning
Resource Center

MCGRATH, RICHARD F.

(1963-1999)
Administration of Justice

MCPAHON, GEORGE VINCENT

(1961-1984)
Technical Mathematics

MEDINA, CECILIA

(1976-2011)
Child Development

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, DONNA

(1972-2010)
Speech Communications

MILLER, ROBERT

(1976-1990)
Administration of Justice

MILLS, MELVIN

(1965-1989)
Biology/Anatomy & Physiology

MITCHELL, VALENCIA

(1989-2011)
Librarian

MONTERA, FRANK J.

(1972-2003)
Physical Education/Athletics

MONTGOMERY, DONALD

(1967-1989)
Counselor

MOSER, BERNICE

(1988-2003)
Nursing

MOSES, SHERILL

(1963-1989)
Philosophy/Political Science

MUELLER, BARBARA J.

(1995-2011)
English

MYERS, ARLENE

(1970-1991)
Business

NAKAMURA, DIANE

(1986-2009)
English as a Second Language

NAKASONE, HARRIET H.

(1973-2011)
Disabled Student Programs and Services

NANCE, WESLEY

(1979-2011)
Computer and Information Sciences

NEFF, JOHN

(1959-1982)
Anatomy and Physiology

NELSON, C. THOMAS

(1974-1996)
Journalism

NELSON, DAVID W.

(1986-2012)
Music

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

NOLAN, JENINE

(1980-2011)
Instructional Dean, Health Occupations

NORMAN, DAVID

(1965-1974)
Data Processing

NUTTALL, ANN C.

(1970-1978)
English

OLIVER, SUSAN

(1995-2012)
History

O'ROURKE, DANIEL H.

(1974-2009)
Acting Director of Human Resources

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

PETER, JAMES R.

(1961-1997)

Chemistry

PINDER, PATRICIA

(1978-1999)

Coordinator of Student Health & Wellness

PIORKOWSKI, MARIJEAN

(1977-2009)

Physical Therapist Assistant

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

PYKA, ANDREW J.

(1963-1976)

Engineering and Mathematics

REECE, JOHN A.

(1964-1988)

Administration of Justice

REGAN, PATRICIA

(1974-1994)

Medical Assisting

RENTERIA, ROBERT A.

(1975-2011)

Reading

REW, WAYNE

(1970-1999)

Counselor

RINGWALD, SIEGFRIED

(1969-1991)

English/Law

RIZKALLAH, BERLANTI

(1981-2011)

Director of Fiscal Services

ROBERTS, CECIL

(1971-1979)

Librarian

ROBERTS, EDITH

(1960-1980)

Physical Education

ROBERTS, LYNDIA

(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

ROMERO, VIRGINIA

(1980-2011)

Counselor

ROSIER, RUDOLF

(1975-1992)

Baking

SAFERITE, ELWYN

(1957-1981)

General Business and Accounting

SALAZAR, PHILLIP

(1981-2011)

Counselor

SAMPSON, LYNDIA

(1989-2011)

Librarian

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

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

STEIN, GERALD

(1992-2010)

Paralegal

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

WALTHER, ROBERT S.

(1992-2011)

Microbiology

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, GLORYA

(1965-1986)

Chemistry and Mathematics

WELLS, DOUGLAS

(1989-2011)

Physical Education/Athletics

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, BRENDA J.

(1993-2011)

Cosmetology

WHITE, LOUISE

(1960-1980)

Nursing

WHITEMAN, RICHARD E.

(1970-1989)

Dean of Business and Industry

WHITLOCK, THOMAS

(1964-1999)

Accounting/Business Law

WHITMAN, CORINE

(1967-1981)

Nursing

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

WISSA, FARID F.

(1988-2012)

Engineering Design Technology

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

YEAGER, MARTHA

(1982-2011)

English as a Second Language

YEE, FRANKLIN

(1976-2003)

Ornamental Horticulture

YOUNG, DAVID A.

(1987-2011)

Counselor

YSAIS, REY

(1965-2003)

Mathematics

ZIVE, INA

(1972-2002)

Dental Hygiene

Classified Employees by Area

ACADEMIC AFFAIRS

CASTRO, MONICA
CHAMBERS, PAMELA
EDWARDS, ANNABELLE
MAUINATU, SALA
TOLSON, MIRIAM

ADMISSIONS, RECORDS AND SERVICES

AGUILAR, ISABEL
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
COOPER, JOHNNY
A.A., Cerritos College
B.S., M.A., Azusa Pacific University
EAR, JOEY
A.A., Cerritos College
A.A., Long Beach City College
LADMIRAULT, BARBARA
MEJIA, NATASHA
MUNOZ, JESSICA
OTERO, KATHLEEN
PENDLETON, BENJAMIN
TORRES, THERESA
VALLES, LISHA

ADULT EDUCATION/DIVERSITY PROGRAMS

CURRY, VICKY
DOUGLAS, WILLIAM
B.S., University of Phoenix
MARTINEZ, DARYABUTH
PANG, REBECCA
VALENZUELA ACOSTA, SYLVIA

BUSINESS, HUMANITIES & SOCIAL SCIENCES

GONZALEZ, DESIREE
MERAZ, ROSA
SENE, JOYLYNN

BUSINESS SERVICES

KAUFMAN, LINDA

CALWORKS SERVICES

RODRIGUEZ, MARINA

CAMPUS POLICE

ALBANO, RANDY
BARRON, JAIRZINHIO
BRUSH, TOM
BUSTAMENTE, RICARDO
CASTILLO, ANGEL
CHAVEZ, MARIO
CLEVELAND, CHARRON
DAWKINS, MICHELLE
ECHEVARRIA, JOHN
JAMISON, CARY
KOMADINA, DEBRA
MARQUEZ, ANA MARIA
RAMIREZ, TERRI
RIOS JR., SANTIAGO
TICE, CARSTEN
TOLAN, JOSHUA
VELAZQUEZ, CARLO

CAREER AND ASSESSMENT SERVICES

ESTRADA, SHANNON
MARTINEZ, ROSARIO
VASQUEZ, ROSARIO

CHILD DEVELOPMENT CENTER

BLANDFORD, AMY
B.A., Pacific Oaks College
CORTEZ, VERONICA
ECHEVERRIA, DIANA
GONZALEZ, DEBRA
HERNANDEZ, BRISA
MURRAY, MARILYN
MURRAY, MARLEN
POPIEL DE CAZAUX, REENA
ROBLES, DESIREE
B.A., California State University, Long Beach
THARP, CASEY

COMMUNITY EDUCATION

AREVALO, SYLVIA
DELLIMAGINE, TRUDY
GOMEZ, CHRISTINE
PREECE, ROBIN

COUNSELING SERVICES

APPLEBURY, KIMBERLY
BELLO, FRANCESCA
A.A., Cerritos College
B.S., California State University, Fullerton
MATTISON, EVELYN
A.A., Cerritos College
RODRIGUEZ, MONIQUE

DISABLED STUDENT PROGRAMS AND SERVICES

BOYCE, KAREN
D'ETTORE, MARY
GUTIERREZ, ROCIO
GUTIERREZ, VERONICA
O'NEAL, JANICE
M.S., University of Southern California
TAYLOR, MARCIA
THOMPSON, ROBIN
A.A., Cerritos College

ECONOMIC DEVELOPMENT

LO, CINDY

EXTENDED OPPORTUNITY PROGRAM & SERVICES (EOPS)

AGUAYO, ROBERTO
M.S., University of La Verne
CHANAY, MARCIA
M.S., University of La Verne

FACILITIES

AINSWORTH, JIMMIE
AMADOR, HECTOR
BELL, LESLIE
BORN, KENNETH
BRENA, MARCOS
BUTLER, KEVEN
CASILLAS, JAIME
CASTILLO, ESTELA
CONTRERAS, ROBERT
CORTEZ, JOSE
CRUZ, CLAUDIA
GARCIA, DAVID
GARCIA, JESUS
GARCIA DIAZ, ARMANDO
GOIS, PHILIP
GOMEZ, JOHN
GOMEZ, MARIBEL
GONZALEZ, MICHAEL
GONZALEZ, STEVE
GRIFFIN, CHARLES
HARKINS, DONALD
HAWKINS, DONNIE

Classified Employees by Area

HOWARD JR., ELVIE
HUNT, JOE
JONES, ELMER
JONES, GARY
KELLETT, MICHAEL
KREBS, DAVID
LEE, ROBERT
LEIGHLITER, BRYAN
LINHARES, DOMINGOS
LUNA, DANIEL
MAHARI, KETMA
MARSHALL, DENISE
MCKINLEY, PATRICIA
MCKINNEY, DANIEL
MCLEOD, RODNEY
MELO, ANTONIO
MENDES, MANUEL
MENDEZ, SALVADOR
MORALES, JOSE
MORRIS, ARTHUR
MYER, GLEN
OCAMPO, LUZ
PLUMP, SHARON
REEVES, JOHN
RODRIGUEZ, ALFRED
RUIZ, JAVIER
RYAN, PETER
SCHMITT, THOMAS
VALDEZ, BERNIE
VILLALOBOS, MICHAEL
WHITE, EDWARD
ZIMMERMAN, KURT

FINANCIAL AID

ALONZO-CAMPOS, KARINA
BRADFORD, EUGENIA
CASTRO, VERONICA
CHAMBERS, JEAN
A.A., Cerritos College
B.A., California State University, Long Beach
GONZALEZ, LIZETTE
GONZALEZ, MICHAEL
LEGUIZAMON, ADRIANA
LOPEZ, ELENA
MERCADO, JUAN
PEDROZA, MARICELA
QUIROZ, JAIME
A.A., Cerritos College
M.S., University of La Verne
RAMIREZ, YESENIA
RODRIGUEZ, ESTER
TOVAR, YAJAYRA
B.A., M.A., California State University, Dominguez Hills
VERA, SYLVIA

FINE ARTS/COMMUNICATIONS

ACOSTA, ALVA
BLOCH, RENEE
BUFFINGTON, DEBORAH
CROTHER, RICHARD
EDQUIST, ALICIA
ENGLAND, MICKI
WALTON, ETTA
*B.A., M.A., California State University,
Long Beach*
WARD, DAVID
B.A., California State University, Long Beach
M.A., University of Michigan

FISCAL SERVICES

CHAVEZ, CYNTHIA
DONNELL, ARCELY
GONZALEZ, ELIZABETH
HARDJADINATA, ANNA
HUNTER, CONSTANCE
A.A., Cerritos College
MACIAS, ARACELI
B.S., California State University, Long Beach
NEG HABAT, FARHAD
NGUYEN, HOAI PHONG
THEIN, JOHN
THOMAS, SCHELLARY
YOUNG, BARBARA

FOUNDATION

COLE, JANICE
A.A., Cerritos College
SAMARIN, RACHEL

HEALTH OCCUPATIONS

AITON, AMANDA
B.A., California State University, Long Beach
GONZALEZ, JR., SILVIANO
HEDDON, STEPHANIE
KORN, LUANNE
KUSUMOTO, ALICE
*B.S., California State University,
Dominguez Hills*
MAJOR, AMBER
PEELE, TRAMAINNE
SENF, JANELL
A.A., Cerritos College

HUMAN RESOURCES

CARLOS, SHARLEEN
FINNEY, EDITH
LIANG, IVY
SHEIBE, DONNA
THOMPSON, BEVERLY

INFORMATION TECHNOLOGY

ADAMS, ROGER
B.M., California State University, Long Beach
ALGIERE, RAY
AZUCENA, MARIO
B.S., University of Phoenix
BELKNAP, ARLENE
DUANE, ERIK
A.A., Cerritos College
ENGBRETSON, JAMES
B.A., California State University, Fullerton
FREEMAN, LAMONT
GARNER, RODNEY
GONZALES, ANTHONY
HENDRICKS, WOODROW
KINGSTON, MICHELE
KYLINGSTAD, TIMOTHY
B.S., M.S., University of Phoenix
MEJIA, ALPHONSE
MORALES, MARIO
MUSSAW, DAVID
PEDROZA, MAURICIO
RODRIGUEZ, GILBERT
SMITH, THOMAS
STEVENS, VICTORIA
TANNER, BRUCE
M.S., California State University, Fullerton

INTERNATIONAL STUDENT SERVICES

TILAHUN, DAVID
YBANEZ, REGINA

LIBERAL ARTS

HARMON, JEANNE
LOPEZ, MEGALIS
MAUINATU, EMILY

LIBRARY/LEARNING RESOURCE CENTER

ALAVIAN, MASOUD
BRUGGER, ROBIN
CARDENAS, ILDA
FRASER, DEEANN
GUNN, DAVID
HOGUE, KATHY
METZ, RONALD
RODRIGUEZ, VANESSA
TAN, LINDA
THOMAS, DEBORAH
VALDIVIA, DAISY

Classified Employees by Area

PATHWAY PROGRAMS/ PROJECT HOPE

WILLIAMS-MANSER, DANYLLE
YORKE, CARLA

PHYSICAL EDUCATION/ATHLETICS

BARRIOS, FELICITAS
CABLE, BRIAN
M.S., California State University, Fullerton
ESTRADA, REFUGIO
MALDONADO, MAYRA
MCLENNAN, ERICA
ORTEGA, ELIAS
ROMERO, LUCIA
SELF, LUCY
SWEET, BEVERLY
TUFNELL, DANIEL
VAN GASTON, JOHN
VELAZQUEZ-ORTEGA, MARIA
M.A., Azusa Pacific University
M.S., California State University, Fullerton

PRESIDENT'S OFFICE

JONES, ANDREA
MUN, JULIE
B.A., University of California, Los Angeles
THURY, CHERYL

PUBLIC AFFAIRS

ABELON, AYAKO
ACUNA, MONICA
ARCEO, SHIRLEY
*B.S., California State Polytechnic University,
San Luis Obispo*
M.A., California State University, Long Beach
CHAVEZ, SAMUEL
EVANS, LEE
GRIJALVA, TONI
KRISTINAT, LAURIE
B.A., California State University, Long Beach
KWAN, KELLY
WINNERS, MARGO

PUBLICATIONS

LAUGHON, LYNN
A.A., Cerritos College
B.A., California State University, Fullerton
VIJAR, ROSEMARIE

PURCHASING

ARIAS, MIGUEL
BARLOW, STEPHANIE
MELLGOZA, RAMONA
PINEDA-RUELAS, INEZ
RADILLO, MAYRA
SMITH, RICHARD

RESEARCH AND PLANNING

GARNER, JACQUELINE
NGUYEN, QUOC

SCIENCE/ENGINEERING/MATH

COLLINGS, LEANNA
DUKHOVNY, OLGA
HARRIS, LINDA
LAREDO, NORA
A.A., Cerritos College
B.A., California State University, Fullerton
LEGASPI, PATRICK
MACLEAN, AMANDA
MERA, CARLOS
REICHWEIN, EVANGELINA

STUDENT ACTIVITIES

JARA, AMNA
B.S., DeVry University
M.A., California State University, Long Beach
MALLARD-JONES, NIKEETHA
PAGANO, DOREEN

STUDENT HEALTH SERVICES

AMADOR, AMERICA
CHORA, MONICA
RODRIGUEZ, ELIZABETH

STUDENT SERVICES

RIOS, ANITA

STUDENT SUCCESS

ATHERTON, AMPARO
B.A., California State University, Fullerton
CHU, TOM
FISCHER, ANNA
M.A., California State University, Long Beach
GARTRELL, RONDA
HEAPY, SUZANNE
HO, ROBERT
JUAREZ, YVETTE
KIM, STEVEN
PIMENTEL, SUSANA
RAMIREZ, SARAH
RODRIGUEZ, CHRISTINA
RODRIGUEZ, MICHELLE
TOWHID, KRISTEN
WATSON, BERNICE
WILMOVSKY, ALBERT
WISNIEWSKI, MICHAEL

TECHNOLOGY

CASEY, LINDA
CORONADO, JESSICA
DAZO, MELISSA
ELIAS, VERONICA
KECK, BEVERLY
LOPEZ, IRLANDA
MITCHELL, ROXANNE
A.A., Cerritos College
PEREA, NINA
REED, CAROLYN
REICH, SAVERNA
RODRIGUEZ, LUIS
A.A., Cerritos College
A.S., Citrus College
ROPER, DAVID
SHELTON, KEVIN
WILLIAMSON, JENNIFER
WILSON, ESTHER

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CERRITOS COLLEGE ALCOHOL AND DRUG POLICY

BP 3550 – DRUG AND ALCOHOL FREE ENVIRONMENT AND DRUG AND ALCOHOL ABUSE PREVENTION PROGRAM

The District shall maintain a drug and alcohol free campus/workplace environment for students and employees. The District prohibits the unlawful possession, use, or distribution of illicit drugs and/or alcohol by students and employees.

The unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in all facilities under the control and use of the District.

Any student who violates this policy will be subject to disciplinary action, which may include, but is not limited to, referral to an appropriate rehabilitation program, suspension or expulsion. Any employee who violates this policy will be subject to disciplinary action up to and including termination. The District may refer students and employees who violate this policy to the Campus Police or other appropriate law enforcement agency for appropriate criminal action.

The President/Superintendent shall assure that the District annually distributes the information required by the Drug-Free Schools and Communities Act Amendments of 1989 to all students and employees and that the District complies with other requirements of the Act.

The President/Superintendent shall ensure that a biennial report is prepared to review the effectiveness of the District's policies and programs in maintaining a drug and alcohol free campus and workplace environment.

The District is committed to providing its employees and students with an alcohol and drug-free campus and workplace environment. It emphasizes prevention and intervention through education.

Health Risks That May Be Associated with the Use of Illicit Drugs and the Abuse of Alcohol

- Partner and/or child abuse.
- Unintended injuries or death, including motor vehicle crashes.
- Being hit, otherwise assaulted, violently attacked, and/or murdered by another under the influence.
- Sexual activity without protection against HIV, hepatitis (A, B, and C), and other STDs.
- Rape, including date rape; other sexual assault; and/or other sexual activity when under the influence and unable to consent.
- Unsafe interactions with medications, including more than 150 medications that should not be mixed with alcohol.
- Binge and other drinking behaviors leading to ingestion of toxic amounts of alcohol, which can lead to alcohol poisoning, with effects including mental confusion, stupor, coma, inability to be roused, vomiting, seizures, slow or irregular breathing, hypothermia, bluish skin color, and paleness, and, if left untreated, seizures, permanent brain damage, and/or death.
- Premature births and low birth weights; alcohol and illicit drug-related birth defects, including fetal alcohol syndrome (FAS) involving severe physical, mental, and behavioral problems; and in the case of prenatal cocaine exposure, a 1.5 times increased likelihood of needing special education services in school.

- Suicide.
- Long-term health problems including liver disease; heart disease; cancers including those of the mouth, throat, larynx (voice box), breast, rectum, and colon; and pancreatitis.
- Homelessness.

Prevention and Intervention Programs

The District provides education and maintains programs and services designed to aid students, employees and their families in receiving assistance for alcohol and/or drug abuse problems. Included in these educational and assistive programs and services are:

- Notification of the dangers of drug use and dependency in the class schedule;
- Mental health services provided to students through the Student Health Services; and
- An Employee Assistance Program (EAP) for employees and their families.

Alcohol and Drug Prohibitions

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

Violation of Board Policy 3550, Drug and Alcohol Free Environment and Drug and Alcohol Abuse Prevention Program, will be addressed by the District. The District will take appropriate action designed to address each specific violation, which may include, but is not limited to:

- Termination of employment,
- Expulsion,
- Referral to Campus Police or other law enforcement agency for prosecution as permitted by law, or
- Mandatory participation in an alcohol or drug abuse assistance or rehabilitation program.

As a condition of employment, employees of the District will have their fingerprints recorded with the California State Department of Justice and any conviction or violations of the law involving drugs and/or alcohol will be reported to Campus Police and to the Human Resources Office pursuant to the requirements of law. In addition, employees must notify the District within five (5) calendar days of any conviction for violation of a criminal drug statute occurring in the workplace. The District is required to report any violations of criminal drug or alcohol statutes that occur in the workplace to the United States Department of Education on an annual basis.

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. Student Health Services

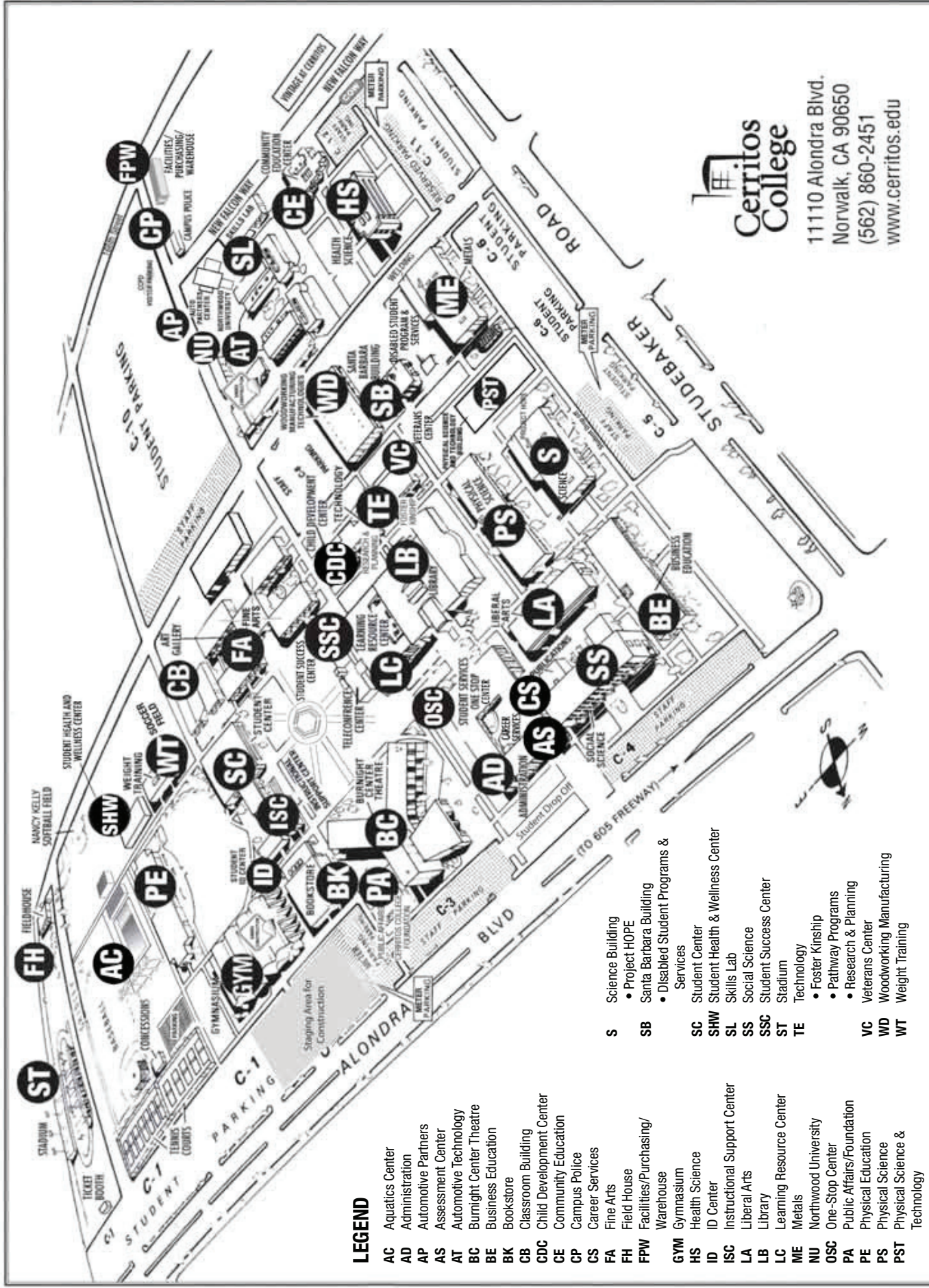
Alcohol/Drug Abuse Counseling, Treatment, Rehabilitation Information

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 Services, Ext. 2321

NOTES

NOTES



Cerritos College

11110 Alondra Blvd.
Norwalk, CA 90650
(562) 860-2451
www.cerritos.edu

THE STUDENT INFORMATION DESK IS LOCATED IN THE ONE-STOP CENTER

5/21/2012



Cerritos Community College District
11110 Alondra Blvd., Norwalk, CA 90650

www.cerritos.edu

562.860.2451



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